



CABLE MANAGEMENT CATALOGUE 2019

BY USING RECYCLED
PVC-U, WE SAVE THE
EQUIVALENT IN WEIGHT
OF 300 DOUBLE DECKER
BUSES GOING INTO
LANDFILL EVERY YEAR.



 **REASSURINGLY
RECYCLED**

Page 16

Colours and finishes

Marshall-Tufflex offer a range of colours and finishes that can provide protection as well as enhancing and personalising the installation to the customer's requirements.

Page 19

Products by application

Marshall-Tufflex cable management solutions are suitable for many different environments including: educational, office, transport and industry, data and IT and laboratory and healthcare.

Page 43

Specialised solutions

Marshall-Tufflex design and manufacturing facility for the production of bespoke, fabricated, pre-wired and pre-assembled products to meet the needs of installation and building variations.

Page 49

PVC-U perimeter trunking systems

Multi-compartment dado and skirting trunking in different heights, designs and cable capacities to suit all installation requirements.

Page 97

PVC-U trunking

A range of general trunking options for a variety of installations.

Page 117

Accessory boxes, plates and enclosures

A full range of boxes, enclosures, 13Amp wiring accessories and data outlet boxes for trunking systems.

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Conduit systems

A full range of PVC-U conduit and fittings, EMC and LSOH options.

Page 137

Fire and security systems

Products designed specifically to meet fire and security wiring regulations.

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Installer items

A range of useful items designed with installers in mind, to help make site work safer and easier.

Aluminium trunking systems

Multi-compartment dado, skirting and bench trunking, for installations where a mechanically robust trunking and high quality of screening performance is required.

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Steel trunking systems

Multi-compartment dado and skirting systems with first class fire performance and excellent screening capability.

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PowerPoles and PowerPosts

Elegant solutions for managing services to island work stations.

Page 185

Underfloor to desk solutions

A range of products that provide complete power and data solutions from under the floor up to the desk.

Page 191

GRP ladder and tray

Light weight and easy to install alternatives to steel ladder, tray, duct and basket.

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Wire Basket

A comprehensive range of wire basket solutions for the simple routing of power and data cables.

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Technical information

Product technical information, dimensions and capacities.

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Look for these quick reference symbols within the catalogue



Indicates that a product can be used in conjunction with MT32 Prefabricated Wiring.



Indicates that a product is compliant up to a specific cable category.



Indicates that a system can be manufactured with antimicrobial properties.



Indicates that a system can have a conductive spray coating to protect against EMI interference.



UK OWNED
UK MANUFACTURER

CABLE MANAGEMENT SPECIALISTS

Marshall-Tufflex is the UK's leading manufacturer and supplier of cable management solutions for commercial, industrial, healthcare, education and domestic markets.

Based in Hastings, East Sussex the company was established in 1942 and is recognised throughout the industry for quality, consistency, reliability, value for money and innovation.

We are extremely proud of our heritage as a family owned company and our priority for the future is to re-invest and continue producing new and effective solutions for the building industry.

REASSURINGLY RECYCLED

We work hard to ensure our products meet the highest standards and are totally committed to the environment and maximising our usage of recycled plastic within our manufacturing process.

Our PVC-U products are manufactured from an average of 80% recycled plastic, with some extruded products produced from 100% recycled material. [Find out more on our Sustainability pages 8-11.](#)



Marshall-Tufflex in the community

Marshall-Tufflex is committed to community engagement; we believe that it is our corporate responsibility to be socially aware and to give back to the local area.

MT in the Community is a programme to drive and encourage engagement across a range of community activities. We are continually building relationships with local educational establishments, from schools to universities. Marshall-Tufflex also supports an active Apprenticeship Programme, allowing people to grow and develop with the business and deliver the skills needed for tomorrow.

Charitable donations

Marshall-Tufflex is an established supporter of charity, donating almost half a million pounds over the last five years alone.

Our philanthropic spirit is part of our heritage and ingrained into the culture and we are very proud to support local and national charities through regular staff fundraising efforts and company donations.

In 1962 our Company founder Harold Cirket, established a charitable Trust, the Charlotte Marshall Charitable Trust, which the company still supports today through a mix of dividend payments and donations.



First class customer service

Our Area Sales Managers, National Contract and Sustainability Managers and technical specialists work closely with consultants, contractors and clients in order to provide the best possible technical and sales support.

Our Customer Service Team are on hand to advise on stock availability, lead times, delivery schedules and order fulfilment.

Our office opening hours are 8am to 5pm Monday to Friday.



Buying Marshall-Tufflex products

Marshall-Tufflex products are available throughout the UK via a large network of national and independent electrical wholesalers.

Please contact our Customer Service Team on +44 (0)1424 856600 for details of your local UK stockist or visit www.marshall-tufflex.com/stockists

Our products are also in over 55 different countries worldwide via our network of channel partners, who maintain a range of products for their customers locally.



Same day collection*

Our popular same day collection service gives our customers an unrivalled two-hour turnaround on product orders, allowing them to collect from our dedicated collection points in Manchester and London. Orders can also be collected next day from our Hastings depot.



Manchester: Europa Trading Estate, *Monday – Friday 8am – 5.30pm*
Stoneclough Road, Radcliffe,
Manchester M26 1GG

London: 101c Blackhorse Lane, *Monday – Friday 8am – 5.30pm*
London E17 6DJ

Hastings: 55-65 Castleham Road, *Monday – Friday 10am – 5.30pm*
Hastings TN38 9NU

- Orders can be collected two hours after order placement from Manchester and London.
- Orders received by 5pm will be ready for collection from 10am the following day.
- Orders placed by 12.30pm can be collected from 10am the next day from our Hastings depot.

* Subject to stock availability

Distributor orders

All orders can be placed directly with our Customer Services Team. Goods will be delivered on your next scheduled delivery day, subject to availability, providing your order is received before the daily cut-off time of 12.30pm.

Send your order to us at:

✉ sales@marshall-tufflex.com f: +44 (0)1424 856611

Direct to site deliveries

If you need your order delivered directly to site, our Customer Service Team will be happy to arrange this for you.

Carriage charges apply if minimum order value is not met.



marshall-tufflex.com

marshall-tufflex.com is an essential resource for the cable management industry and features comprehensive technical information, BIM resources, product and installation to assist with choosing the perfect trunking system for your project.

DISTRIBUTION ACROSS THE WORLD



We have exported our range of cable management products across the world for over 40 years.

Our products have been installed in prestigious buildings worldwide and we are pleased to sell to over 55 countries via our network of channel partners.

For details of our channel partners, see the inside back cover of this catalogue.

We're easy to do business with

Our international team work with our partners around the world overseeing international shipments from order placement through to final delivery of goods.

All elements of the shipping process are managed by our team including export documentation and payment documents such as letters of credit.



From left to right: Craig Haskins – *International Sales Manager*, Paul Hetherington – *CEO*, Michael Ballard – *International Sales Director*, Matt Palmer – *International Sales Co-ordinator*.

Contact our International Team

Customer Services

☎ +44 (0)1424 856600

✉ international@marshall-tufflex.com

Michael Ballard

☎ +44 (0)7713 877275

✉ michaelb@marshall-tufflex.com

Craig Haskins

☎ +44 (0)7713 877242

✉ craigh@marshall-tufflex.com



TECHNICAL SUPPORT

Our Technical Team consists of qualified Electricians, Electrical and Mechanical Engineers with many years experience of cable management installations including an understanding of the regulations and compliancy to standards in both domestic and commercial sectors.

The team can advise on a wide range of solutions and technical issues, product standards, data cabling control and Part M compliancy.

We pride ourselves on providing and supplying our customers with specialist solutions to suit a variety of needs. We aim to complete all standard quotes within one working day, although more complex quotations such as 'take offs' can take longer.



Specialised solutions

With cable management installations becoming increasingly wide ranging, our specialised solutions service helps to find the perfect answer to a specific problem that a client is facing.

Our In-house Design Team continually push the boundaries of product design and work with architects, designers and contractors to create pre-fabricated solutions for their projects, designed to save time on site.

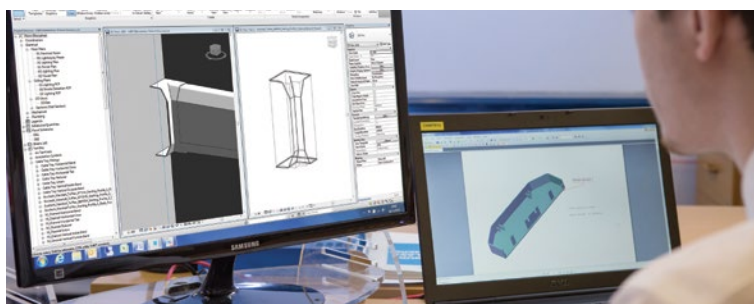
BIM (Building Information Modelling)



BIM (Building Information Modelling) brings together all of the digital information for every component of a building in one place allowing anyone to access that data. BIM data can be used and shared to illustrate the entire building life-cycle, from feasibility, design, during construction and throughout its working life.

3D Autodesk Revit models are now available to download for Marshall-Tufflex products, with the necessary technical product data for them to be easily specified and integrated into a construction project.

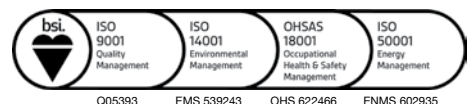
Visit www.marshall-tufflex.com/bim or www.bimstore.co.uk



Standards

BSI Standards

Marshall-Tufflex is committed to excellence and is recognised by the BSI as a firm of Assessed Capability for Quality Management Systems to BS EN ISO 9001:2015, Environmental Management Systems to BS EN ISO 14001:2015, Occupational Health and Safety Systems to BS OHSAS 18001:2007 and Energy Management Systems to BS EN ISO 50001:2011.



BEAMA

BEAMA is the independent expert knowledge base and forum for the electrotechnical industry for the UK and across Europe. Representing over 300 manufacturing companies in the electrotechnical sector, the organisation has significant influence over UK and international political, standardisation and commercial policy. We are very proud to be an active member of BEAMA and work closely with them.



RoHS, REACH and WEEE

Marshall-Tufflex is committed to compliance with the RoHS, REACH and WEEE European Union Directives.

REASSURINGLY RECYCLED

The construction industry produces huge amounts of waste each year. At Marshall-Tufflex, we take our impact on the environment very seriously and are working hard to encourage the cable management sector to join us in utilising recycled material within their products by 2028. We believe that everyone has a responsibility to make positive choices that can affect the environment. We all have an impact, no matter how small.

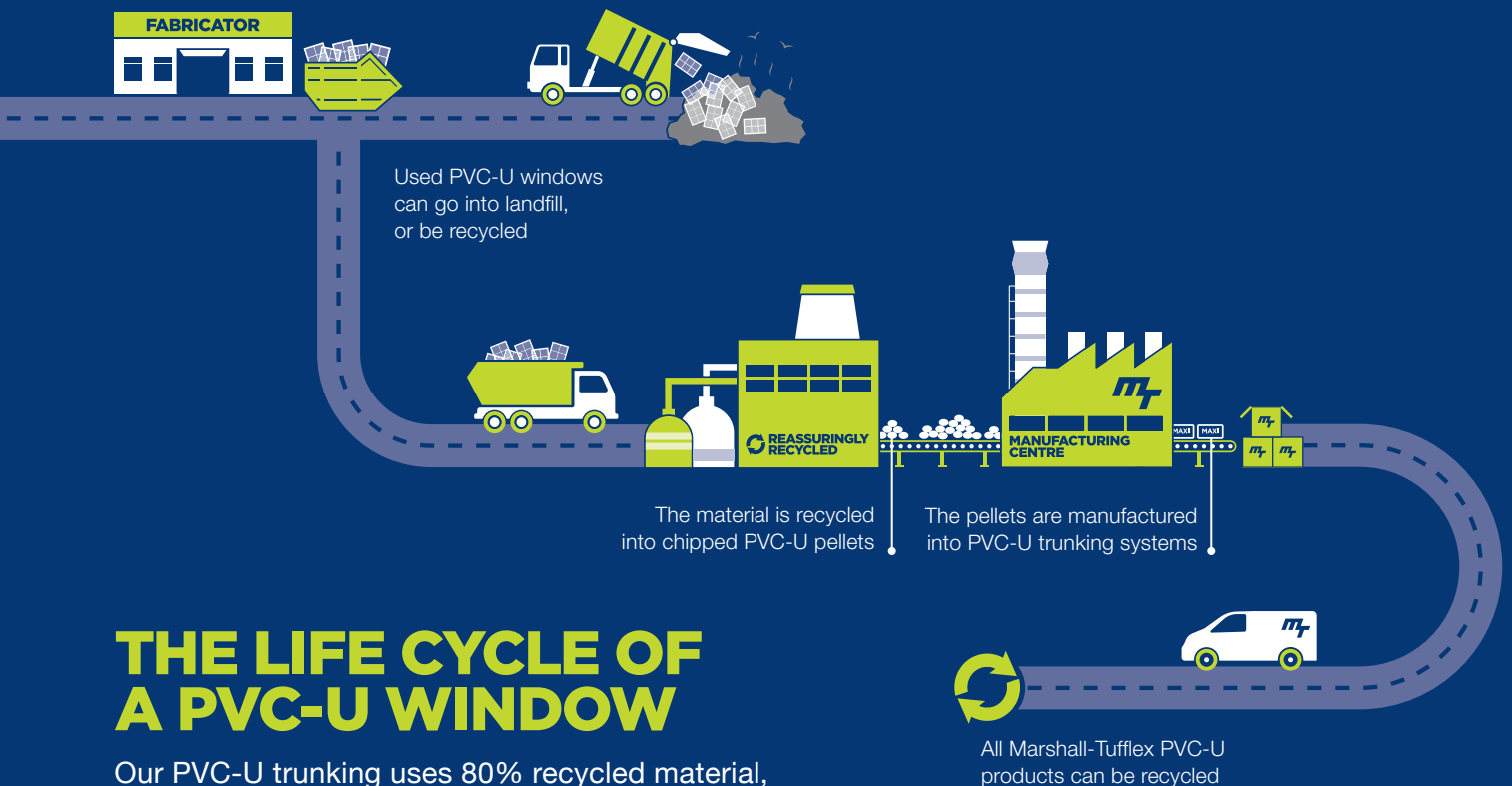
Where does our recycled material come from?

Our recycled PVC-U mainly comes from waste windows from window fabricators. This raw material is more robust and higher quality than normal conduit or trunking virgin grade extrusion PVC-U because the material used to make windows is designed to withstand external elements and is generally considered the best standard PVC-U available.



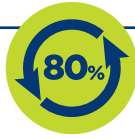
REASSURINGLY RECYCLED

FOR OVER 20 YEARS, WE HAVE PRODUCED TOP-QUALITY CABLE MANAGEMENT SOLUTIONS USING RECYCLED PVC-U FROM WINDOWS - PREVENTING THE EQUIVALENT OF 300 DOUBLE-DECKER BUSES WORTH OF PLASTIC GOING INTO LANDFILL EVERY YEAR.



How much recycled content do we use in our products?

From 1st January to 31st December 2018 we used 80% recycled material across our PVC-U product range. Where the aesthetic finish of products is not so important, far higher percentages of recycled material can be used. For example, some of our white Mini and Maxi Trunking lengths, white Conduit and trunking base products can be manufactured using up to 100% recycled material.



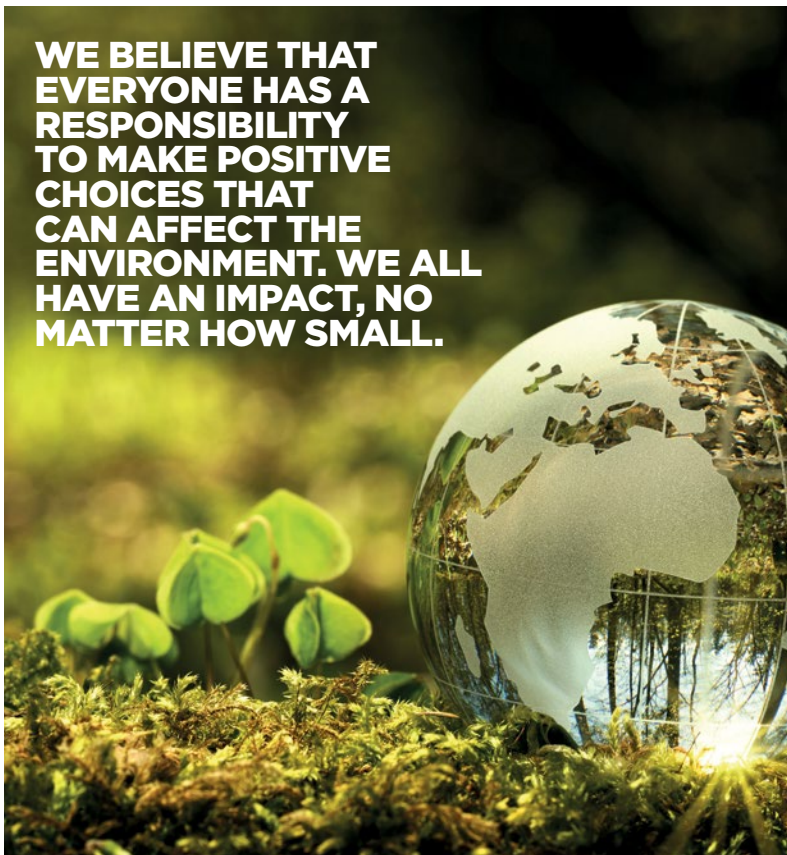
Why specify products with recycled content?

Recent figures indicate the construction industry uses around 420 million tonnes of materials each year. From these materials, around 120 million tonnes are wasted. From this waste, it's estimated that 25 million tonnes end up in landfill sites. With landfill sites in short supply (not to mention their negative impact on the environment), there's enormous pressure on the industry to reduce, reuse and recycle.* That's why we are passionate about producing products with the greatest level of recycled content possible whilst helping the construction industry as a whole to reduce wastage.

* Source: www.wrap.org.uk



DURING THE PRODUCTION PROCESS WE COLLECT OUR OWN WASTE MATERIAL FOR REUSE.



WE BELIEVE THAT EVERYONE HAS A RESPONSIBILITY TO MAKE POSITIVE CHOICES THAT CAN AFFECT THE ENVIRONMENT. WE ALL HAVE AN IMPACT, NO MATTER HOW SMALL.

Exactly how much recycled content is in each Marshall-Tufflex product?

By using our rigorous quality control system we are able to tell you exactly what percentage of recycled material is used within each PVC-U product that we manufacture. The product code index at the back of the catalogue details this information.

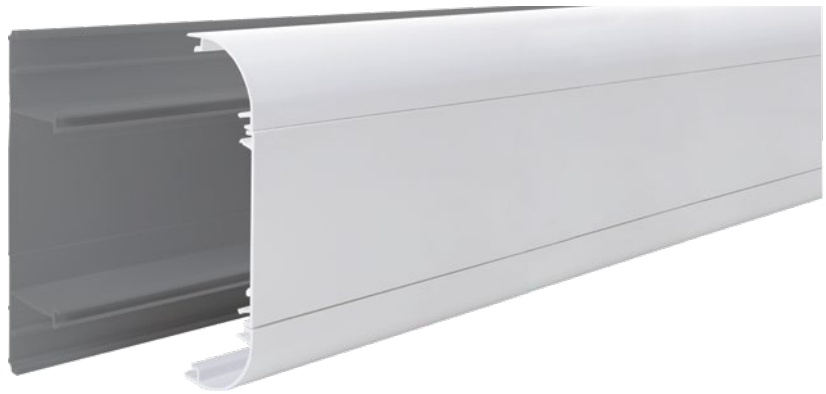
Product	Recycled PVC-U Content	Page
MTRS100/50WH	94%	106
MTRS100LID25WH	100%	107
MTRS100WH	90%	106
MTRS150WH	100%	106
MTRS50CL	0%	106
MTRS50WH	93%	106
MTRS75/50WH	86%	106
MTRS75WH	91%	106
MTSPS1WH	19%	107, 113
MTSPS2WH	22%	
MTU125	100%	

See page 298

What is the average amount of recycled content for each system?

To enable you to evaluate or compare the average amount of recycled content that is used within our PVC-U systems we have worked out an average based on a built up 3m trunking profile. These figures are shown within the product pages of the catalogue.

A 3m built up trunking profile consists of 3m of base and 3m of cover/s.



THE BASE OF OUR PVC-U PERIMETER TRUNKING SYSTEMS IS MANUFACTURED FROM 100% RECYCLED MATERIAL. THE UNSEEN COLOUR OF THIS BASE WILL VARY BUT IS USUALLY A VARIATION OF GREY.



Company environmental practices

We take the impact of our business very seriously across every level of the organisation. As well as our usage of recycled material in our manufacturing operation we also work hard to recycle anything and everything wherever we can. Currently we recycle paper, cardboard, polythene, wood, metal, print cartridges and aluminium cans. Our pallets are also collected by a local company who use them to build planters for local conservation projects.

Other energy saving initiatives across the company include the installation of LED lighting within our factory and office areas.

All new machinery sourced for manufacturing has a requirement for energy saving to ensure that our products are created in the most efficient way possible with least impact on the environment.

We aren't perfect, but we are constantly striving to reduce impact on the planet.

OUR WHITE CONDUIT LENGTHS ARE MANUFACTURED USING OVER 95% RECYCLED MATERIAL.



OUR WHITE MINI TRUNKING LENGTHS ARE MANUFACTURED USING OVER 95% RECYCLED MATERIAL.



How do we ensure consistent quality when using recycled content?

During the production process, material samples are taken from our recycling partners' production line every 10 to 20 minutes. The samples are run through a lab extruder to produce a flat strip which is used to check for consistency in colour and surface finish. This information is sent to us with every delivery of recycled material, which means we can always assure our customers that we are complying with REACH's stringent regulations.

What is REACH?

REACH is an EU regulation (dating from 18.12.06) that stands for Registration, Evaluation, Authorisation and Restriction of Chemicals. It addresses the production and use of chemical substances and assesses their potential impact on both human health and the environment. All Marshall-Tufflex products are REACH compliant and contain no 'Substance of Very High Concern'.

Our commitment across the company

Five members of staff recently took part in a series of press adverts and a short film to showcase our commitment right across the company and to provide an insight into our environmentally responsible manufacturing processes and a philosophy which is at the heart of our business.

The film features employees (Hannah Hayler, Craig Haskins, Dave Carter, Rob Muggridge, Debbie Ensell and Herbie the dog) taking part in outdoor activities they are passionate about, from dog walking to surfing, fishing to running, all set against gorgeous East Sussex locations near to our Head Office.

See the video at www.marshall-tufflex.com/reassuringly-recycled



A WINDOW INTO CABLE MANAGEMENT



DELIVERING INNOVATION

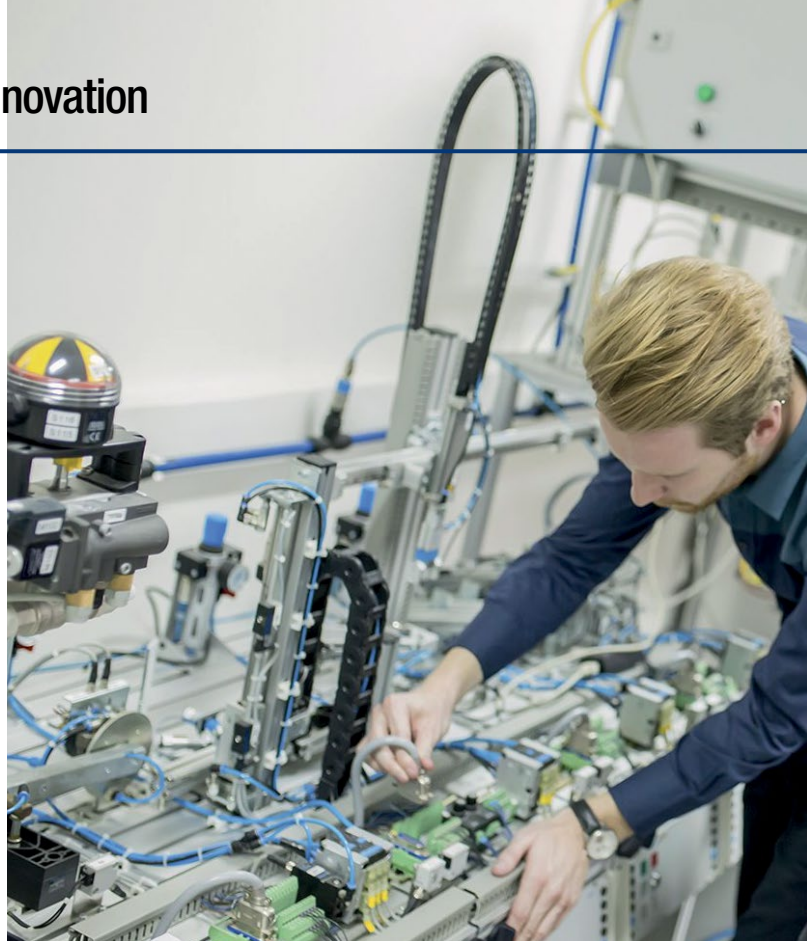
NEW

The Marshall-Tufflex brand is synonymous with providing quality, and innovative engineered solutions.

We have the most comprehensive range of trunking solutions to suit all types of cable management applications and we are committed to pioneering new and effective solutions that look good and aid speed and simplicity of installation.

Importantly, we also ensure our products comply to current legislation and regulations.

Within this catalogue you will find some new products and changes to existing ranges that have been made in response to feedback from you, our customers.



INTRODUCTION

Sterling Curve Aluminium

Sleek, stylish and strong, this new triple compartment Cat 7a compliant trunking solution is gently curved at the edges to prevent clutter and to make cleaning easier.

The 167mm x 50mm profile is available in silver grey as standard and in versions for dado or skirting applications. Aluminum's mechanical strength, impact resistance and light weight makes it ideal for high traffic environments such as schools, hospitals, offices, factories, railway stations and airports.



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Firefly Clips

Firefly fire clips can be used with trunking to secure surface cables and to avoid the risk of entanglement in the event of a fire.

Firefly clips are now available for use with a wide range of trunking ranges to comply with the latest wiring regulations.

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Cable Catchers

Cable Catchers are designed to lift trailing cables off the floor and remove trip hazards on site allowing contractors to work safely and in line with Health and Safety Executive recommendations. Hooks, hangers and adhesive patch hooks are available.



Tuff n Smooth Wipes

These heavy duty PVC-U wipes are hard on marks, scuffs and grime from sealants, adhesives, oil, grease, paint and more, whilst leaving no residue. As well as being anti-bacterial, they are completely hand safe and contain aloe vera to keep hands moisturised.

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New ideas and product innovation

Do you have a product idea that could be developed into a useful or time saving solution to benefit electrical contractors, designers and specifiers? If so, we'd love to hear from you.

Contact our Innovation and New Product Development department at innovation@marshall-tufflex.com

RECENT INNOVATIONS

Following the introduction of several new products over the last two years we are pleased to report that these products are now in full use within the electrical industry.

Punched Mini Trunking

MMT2 and MMT4 from our mini trunking range are offered in three variations; standard, self-fix and a punched version.

Punched mini trunking is designed for increased speed and ease of installation with secondary holes located at the top of the trunking which is perfect for mounting Firefly safety clips.



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Wire Basket Cablelay

To complement our range of Fast-Coupling Wire Basket we offer two types of fire resistant matting; Cablelay Matting and Cablelay Rigid. Wire Basket Cablelay is positioned within wire basket and tray to protect cables from protrusions, sharp edges, rough and uneven surfaces, pressure points or kinking ridges and to protect the integrity of the data cables.

cable
From
Marshall
Tufflex **lay**™

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Aluminium Power Modules

This range of Aluminium Power Modules can be connected directly* to underfloor powertrack via a tap-off. Available in 3.15 or 5 Amp; Standard or Clean Earth versions with 3 or 5 metre tap-offs.

* Means of circuit protection must meet the requirements of the latest edition of the BS 7671 wiring regulations.



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3D Printer Technology

We use the latest 3D printing technology to develop innovative product ideas, by taking product from design to market as quickly and cost-effectively as possible.

3D printing enables us to continually improve our service levels, whether that be responding to customer feedback or developing new product ideas.

It has proven revolutionary and is now an integral part of our product development. We can take a product idea, design it in-house with our CAD engineers and produce a 3D prototype, enabling us to quickly evaluate the design and ensuring we invest in the very best cable management concepts and solutions.

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Retro-Fit Part M Spacer

These spacers can be added to existing installations where our ETL1WH main compartment cover is installed, to enable compliance with the Disability Discrimination Act (DDA) and Part M of The Building Regulations. The spacers are available in blue and charcoal as standard.

Pre-Wired Floor Boxes

Labour costs are often the most expensive part of a project, so with that in mind our pre-wired three or four compartment raised floor boxes save time on site as they are supplied wired up with a tap-off and ready for installation.

Standard or Clean Earth versions are available complete with 3 metre tap-offs.

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COLOURS AND FINISHES

Standard colour

The colour options for each range are shown within the product sections, although solid white RAL 9003 is our most popular option.

The below table identifies the RAL reference for our colour options, but please see the relevant product section to check the colours available for that system.

We would be happy to quote for any other colour requirements, please see the Special colours and finishes section below.

Standard Colours	
WH	BK
WH: White BK: Black	



Material	Standard colour	Colour code suffix	RAL
PVC-U	Solid White	WH	9003
	Black	BK	9005
	Charcoal	CH	7021
	Red	RD	3020
	Brown	BN	8017
Aluminium	Silver Grey	SG	9006
	White	WH	9016
Steel	White	WH	9010
GRP	Pebble Grey	N/A	7032



Special colours and finishes

To help enhance the style of an installation, different variations of solid colour are sometimes required.

We can provide special colours in either a solid PVC-U solution or a painted solution dependent on your client's preference. All special colour requirements will need to be specified as a RAL colour.

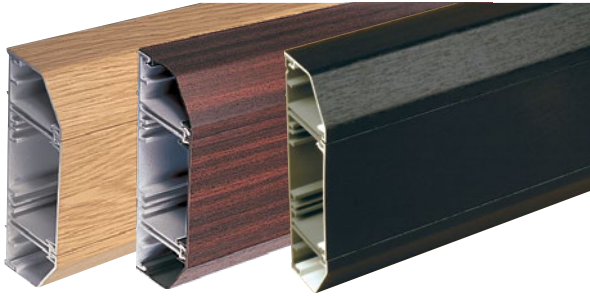
Please note: due to different processes and materials utilised, it may not always be possible to obtain an exact colour match between the extruded and moulded product.

Woodgrain finishes

For a truly authentic look, we are able to quote for a range of different finishes. (**Please note:** visible fittings would be supplied in a closely matched solid colour.)

Please note: these colours and finishes are made to order and therefore are subject to set up charges, minimum order quantities and a longer lead time.

For more information and a quotation contact our Technical Team on +44 (0)1424 856688.



Copper screening

A special conductive spray coating is applied to the relevant section of the trunking or fittings to screen data cables against EMI interference with no reduction in cable capacity.

Marshall-Tufflex offers a standard range of copper screened products within selected PVC-U perimeter trunking systems which are shown within this catalogue and are held in stock.

If you have a requirement for products to be copper screened that are not part of our standard range, please contact our Technical Team on +44 (0)1424 856688.

Please note: non-standard products are made to order and therefore are subject to set up charges and a longer lead time.



Bio antimicrobial trunking

Where hygiene is a priority, Marshall-Tufflex has a solution with integral antimicrobial properties that can be incorporated within the PVC-U perimeter trunking and deliver ongoing antimicrobial protection that prevents 99.9% of harmful bacteria.

Because the Marshall-Tufflex Bio trunking solution is integral to the PVC-U material, there is no reduction in effectiveness of the trunking throughout its life – even if it is scratched or damaged.

We hold stock of key Odyssey and Sterling Curve Profile 1 trunking components with Bio antimicrobial protection due to its popularity.

The following trunking systems are also available in Bio but not available as standard:

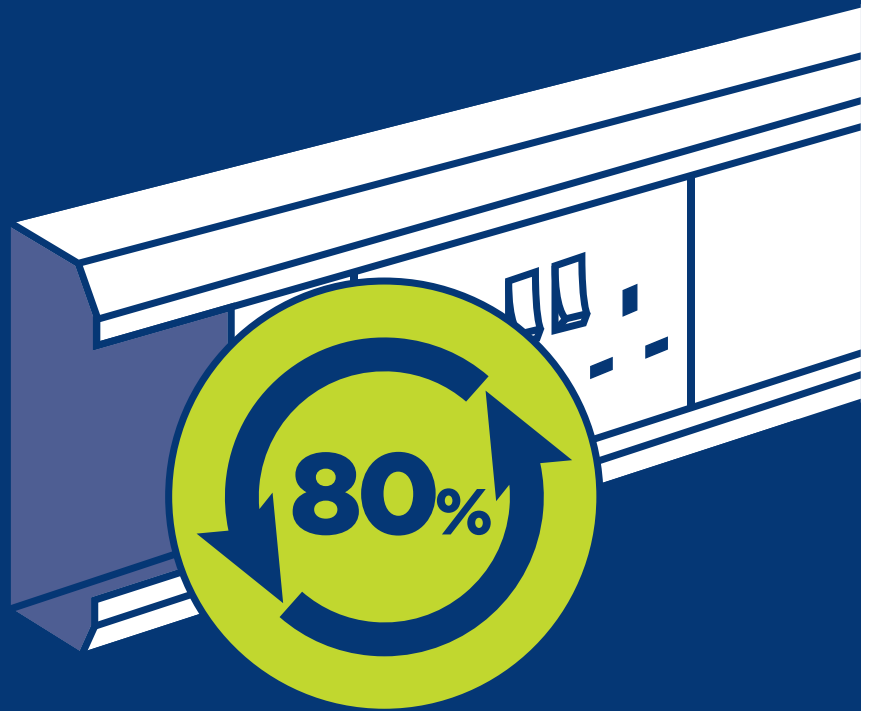
- Bench trunking
- Compact trunking
- Mono Plus 20 trunking
- Sterling Profile
- Twin Plus trunking
- XL trunking

Please note: non-standard products are made to order and therefore are subject to set up charges and a longer lead time. For more information and a quotation contact our Technical Team on +44 (0)1424 856688.



Our PVC-U products have been

**MANUFACTURED
USING 80%
RECYCLED MATERIAL.**



PRODUCTS BY APPLICATION

Marshall-Tufflex cable management solutions are suitable for many different applications including: education, office, transport, industry, data, laboratory and healthcare.



CABLE MANAGEMENT FOR EDUCATIONAL ENVIRONMENTS

Marshall-Tufflex has been supplying trunking systems to the UK's educational facilities for over thirty years. We are dedicated to ensuring that our comprehensive range of products meets the needs of clients, designers and contractors working in the education sector.

We understand that there is increasing demand for cable management products that enable the distribution of power and high speed data services. As the largest UK manufacturer of cable management products, we apply our vast experience and technical knowledge to not only meet these requirements but to provide future proof cable management solutions.

PRODUCTS BY APPLICATION



What we offer

- Cable management products that are already proven and have been selected for use in classrooms, workshops, IT suites and offices in the education sector.
- A comprehensive range of trunking systems available in PVC-U, aluminium and steel.
- Designs, dimensions and cable capacities to meet the latest standards and to accommodate building designs and construction parameters.
- Products to comply with Part M of the UK Building Regulations (Disability Discrimination Act for Visual Impairment).
- Antimicrobial trunking systems with an integral formulation preventing 99.9% of harmful bacterial growth.
- Stylish and practical trunking systems that complement modern classroom environments.
- Ever growing range of BIM models and data.
- Colour and finish options available – some as standard stock items. Please contact the Technical Team on +44 (0)1424 856688 for further details.

PVC-U trunking

Compact 1 and 2

130 x 50mm

A compact two compartment dado and skirting system suited to fit within areas that have trunking height restrictions, for example to negotiate radiators or window sills.



Page 59

Mono Plus 20

140 x 50mm

An economical and stylish three compartment dado trunking for use where space is limited. Mono Plus has one piece fittings with a single lid for improved security.



Page 57

Sterling Profile 1, 2 and 3

167 x 50mm

A popular stylish medium sized trunking system for dado and skirting application with three segregated compartments. Sterling Profile 1 has been tried and tested within the educational environment over many years.



Page 68

Sterling Curve Profile 1 and 2

167 x 50mm

Sterling Curve is a stylish medium sized trunking system for dado and skirting application with three segregated compartments. Sterling Curve Profile 1 has curved outer compartments designed to stop clutter, avoid dust traps and make cleaning easy.



Page 77

Odyssey

180 x 57mm

Curved profile dado trunking with one main compartment and two smaller compartments designed specifically for heavy traffic areas such as classrooms. Odyssey's curved profile is designed to prohibit clutter, avoid dust traps and makes cleaning easy. Compartments can be subdivided if required.



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Twin Plus

210 x 57mm

An attractive, high capacity, segregated two compartment containment system. Twin Plus is ideal for schools, colleges and universities requiring large quantities of Cat 7 data cabling throughout classrooms and computer suites.

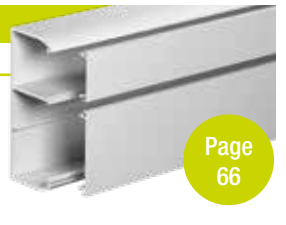


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Twin165

160 x 65mm

A mid-size, two-compartment system, Twin165 offers high capacity for Cat 6, Cat 6a and Cat 7 data cabling for specification in educational environments.



Page 66

Bench trunking

105 x 105mm

An easy to install robust, angled trunking that can be mounted directly on workbenches or angled under shelving. Compartment can be subdivided if required.



Page 115

Aluminium trunking systems

Elegance 110

110 x 55mm

An impact resistant compact rectangular dado trunking system with a single lid cover. Elegance 110 is an excellent choice for educational areas requiring a stylish yet robust trunking system, particularly effective where a high quality of screening performance and security is required.



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Sterling Curve Aluminium Profile 1 and 2

167 x 50mm

Sterling Curve Aluminium is a robust and stylish Cat 7a compliant perimeter dado or skirting system designed to stop clutter, avoid dust traps and to make cleaning easy.



Page 160

Twin Plus

210 x 57mm

A strong and attractive high capacity segregated two compartment containment system. Ideal for schools, colleges and universities requiring large quantities of Cat 7 data cabling throughout classrooms and computer suites.

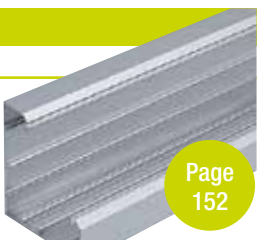


Page 167

Bench trunking

105 x 105mm

An easy to install, robust, angled trunking that can be mounted directly on laboratory and medical workbenches or angled under shelving. Compartment can be subdivided if required.



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Case Study

'Twin' trunking duo resolves size issue at Sunderland College



Twin165 trunking has come up trumps for yet another major educational new-build project, offering generous compartment sizes in a trunking profile able to accommodate height restrictions around window sills.

Specifiers working on the new £22 million Arts and Sports Academies at Sunderland College's Bede Campus required an integrated cable management solution for both buildings.

The college had previously used Twin Plus trunking and were happy with its performance and generous, two full-sized compartment cabling capacity. But when specifying trunking to carry power and data supplies throughout the new buildings, mechanical and electrical services consultant Desco were limited by height restrictions around window sills. Twin165 solved the dilemma, offering an alternative solution for these tricky areas with a flexible, medium-sized, cable containment solution that met the specification and required cable capacity perfectly.

Both Twin Plus and Twin165 were specified for the new buildings. Karen Wade, director of facilities at Sunderland College, said: "We have used Marshall-Tufflex trunking not only in the new Sports and Arts Academies' projects, but also in other smaller refurbishment projects across the estate. We find Marshall-Tufflex trunking both flexible and durable which makes it suitable for use in a busy college environment."

The products were installed by Castle Building Services, which carried out the mechanical and electrical engineering services. Although familiar with installing Marshall-Tufflex products, Castle Building Services had not worked with Twin165 before but reported that it had been very straightforward to install.

CABLE MANAGEMENT FOR OFFICE ENVIRONMENTS

Marshall-Tufflex has a wide range of cable management products in a variety of materials which are designed to transport power and data throughout office environments. We are dedicated to ensuring that our comprehensive range of products meets the needs of clients, designers and contractors working in the commercial sector.



What we offer

- A comprehensive range of underfloor to desk cable management and prefabricated wiring systems developed for fast, easy and adaptable installation.
- PowerPoles and PowerPosts are a practical, elegant and efficient solution for the management of power, data and communication services to island work stations.
- Practical trunking solutions in PVC-U, steel and aluminium including features such as Part M compliance, copper screening and data control bends.

Underfloor to desk solutions

Powertrack

Powertrack is a comprehensive range of underfloor 63Amp powertrack that comes complete with pre-assembled coupler, end cap and floor mounting brackets.



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Raised floor boxes

A high quality range of raised floor boxes to provide power and data to desks within the modern office environment. Available as standard or heavy duty versions. Pre-wired versions are available for speed and ease of installation.



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In-screed flooring systems

A range of floor outlet boxes, fittings and plates in galvanised steel, with choice of PVC-U or steel ducting.



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MT32 Pre-wired underfloor distribution

A prefabricated wiring system that incorporates 32Amp plug and play connector technology. The system provides a range of pre-wired, pre-tested products which can be used alone or in conjunction with powertrack, desk modules and other pre-wired systems to accommodate various underfloor layout options.



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Desk surface units

A range of surface mounted power and data modules for use with office furniture. See page 194 for a typical office installation using our underfloor to desk solutions.



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PowerPoles and PowerPosts

PowerPoles are a practical and elegant solution for the management of power, data and communication services to island work stations. PowerPoles are suitable for suspended and solid ceiling applications whilst PowerPosts are suitable for all floor applications. Single and double sided options are available.



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PVC-U trunking

Sterling Profile 1, 2 and 3

167 x 50mm

A popular stylish medium sized trunking system for dado and skirting application with three segregated compartments. Sterling Profile 1 has been tried and tested within the office environment over many years. Outer compartments can be subdivided and screened if required.



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Odyssey

180 x 57mm

Curved profile dado trunking with one main compartment and two smaller compartments designed specifically for heavy traffic areas. Odyssey's completely curved profile is designed to prohibit clutter, avoid dust traps and makes cleaning easy. Compartments can be subdivided if required.



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Sterling Curve Profile 1 and 2

167 x 50mm

Sterling Curve is a stylish medium sized trunking system for dado and skirting application with three segregated compartments. Sterling Curve Profile 1 has curved outer compartments designed to stop clutter, avoid dust traps and make cleaning easy. Compartments can be subdivided if required.



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Twin Plus

210 x 57mm

An attractive high capacity segregated two compartment containment system which is ideal for carrying power and data services. Compartments can be subdivided and screened if required.



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Twin165

160 x 65mm

A mid-size, two-compartment system, Twin165 offers high capacity for Cat 6, Cat 6a and Cat 7 data cabling for specification in office environments.



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Aluminium trunking systems

Sterling Profile 1, 2 and 3

167 x 50mm

A popular and stylish trunking system that offers a variety of trunking profiles with three separate compartments and individual covers for each compartment for ease of access.



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Twin Plus

210 x 57mm

A strong and attractive high capacity segregated two compartment containment system which is ideal for offices requiring large quantities of Cat 7 data cabling.



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Elegance 170

170 x 55mm

An attractive, light to handle, rectangular dado trunking system with a single lid cover. Elegance 170 has mechanical strength and impact-resistance that is superior to steel. Can be single, twin or three compartment with easy to fit dividing fillets with pre-punched knockouts.



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Sterling Curve Aluminium Profile 1 and 2

167 x 50mm

Sterling Curve Aluminium is a robust and stylish Cat 7a compliant perimeter dado or skirting system designed to stop clutter, avoid dust traps and to make cleaning easy.



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Steel trunking systems

System 130

130 x 63mm

Steel System 130 is a stylish compact pre-galvanised trunking system with extra depth and a resilient white powder-coat finish that helps to prevent smearing and marking.



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System 170

170 x 63mm

Steel System 170 is a mid-sized pre-galvanised trunking system with extra depth and a resilient white powder-coat finish that helps to prevent smearing and marking.



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Case Study 1

Nice and easy with Twin165 Trunking



Twin165 data compliant trunking system had no trouble impressing both Ormiston Victory Academy and the Dodd Group's project team of its specification merits for the academy's purpose-built building in Norwich.

"It ticked all the boxes and that of our client," said Alan Hensby of Dodd Group Eastern, electrical and mechanical contractor for the project. "As a trust, Ormiston Victory Academy took an active role in selecting products for the new school building, which included looking at samples."

"Marshall-Tufflex came out best when we looked at different cable management options & it provided value for money compared with the competition," added Mr Hensby. "We particularly liked the simplicity of its design and ease of installation when up against time. Some systems we considered were fragmented and not tamper-proof. Being a tamper-proof, all-in-one unit with double compartments, Twin165 gave us the depth of capacity we required without being over-bearing in width, easily fitting spaces around windows & radiators. It also gave us flexibility for future-proofing without disturbing the fabric of the building. We like nice and easy trunking!"

Some 284 lengths of Twin165 in white with grey lids to meet DDA requirements were installed within the new academy building by Electrical Engineering Services, King's Lynn.

Case Study 2

Marshall-Tufflex trunking keeps Pace with prestigious project



The impressive refurbishment of the Pace Building within Durham University's Palace Green Library demonstrates how well-specified cable management can enhance the final look of a project. The 1960s part-listed Pace Building unites wood, exposed steelwork, concrete and glass to provide users with a beautifully executed modern, hi-tech environment in which to do research and to study.

Each of the many desks within the library have power delivered by Marshall-Tufflex's charcoal-coloured Sterling Profile 1 dado trunking where a perimeter cable management solution was required.

Project mechanical and electrical building design consultant Desco, turned to Marshall-Tufflex to provide cable containment that combined looks and performance and was in-line with the architectural aesthetic of the building. Sterling Profile delivered the required style, colour and finish for the project together with functionality: as well as looking good the 167x50mm trunking has three segregated compartments that can be further subdivided as required, making it an attractive and flexible solution.

The second key requirement of the project was an underfloor power delivery solution suited to the open plan environment of the building. For this Marshall-Tufflex's in-screed floor distribution system was specified.

CABLE MANAGEMENT FOR TRANSPORT AND INDUSTRIAL ENVIRONMENTS

Marshall-Tufflex has a wide range of cable management products in a variety of materials which are designed to suit specific on site or installation needs, where particular hazards or harsh environments require a specialised solution. We are dedicated to ensuring that our comprehensive range of products meets the needs of clients, designers and contractors working in the transport and industrial sector.



Marshall-Tufflex is registered with the RISQS Railway Industry Supplier Qualification scheme.

What is RISQS?

RISQS, formerly known as Achilles Link-up, has been developed to provide a service for the qualification of suppliers for all products and services that are procured by the industry. RISQS supports Network Rail, LUL/Transport for London, train operators and other rail products and services providers in the management of supply chain risk. RISQS is an independent, third party qualification assessment of a supplier's capability to supply products and services.

GRP cable management systems

Glass Reinforced Polyester (GRP) cable management systems are well suited to aggressive environments, such as extreme weather or high temperatures.

The systems are extremely robust, considerably lighter than traditional metal systems, and have excellent resistance against fire and corrosion resulting in a very long life span. GRP systems have a large cable capacity, and offer fast and flexible installation solutions, with the ability of on-site assembly and configuration. Marshall-Tufflex can offer a wide range of GRP systems including trays, ladders, ground ducts, troughing, accessories and fittings, fixings and supports.

- Large cable capacity
- No need for painting means low maintenance costs
- Self extinguishing, without toxic fumes
- LSOH (Low Smoke Zero Halogen)
- Resistant to temperatures from -80° to +130°
- Excellent cable protection



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GRP vs. Steel

GRP is 40% lighter

Completely corrosion resistant. No rusting even when in contact with salt spray, H25, acid built up from exhaust gases, or brake dust along roads and railways

Fast installation with fewer fasteners

Easy to cut and drill

Slow rate of heat transfer

Earthing not required

Antimagnetic and therefore resistant to electromagnetic pulses

Lower life cycle cost

MT Supertube LSOH Conduit: A time saving alternative to steel conduit



MT Supertube is a three-layer, heavy gauge, impact-resistant conduit giving excellent EMI properties. Available with steel or polycarbonate fittings, MT Supertube is manufactured to comply with BS EN 50086.

- LSOH Polyethylene-coated aluminium
- Can be formed by hand and no bending spring is required
- No special tools necessary
- MT Supertube FR Plus version is fire tested in accordance with, and meets criteria for, Category 'EQ/I' of the London Underground Limited Engineering Standard 2-01001-002: Issue A1:December 2003

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Contractor cost and labour saving example (based on contractor purchase price)

Costs calculated on using 100m of 20mm conduit with 8 off 90° bends and estimated manpower costs of £35 per hour

Galvanised steel conduit		MT Supertube coiled conduit	
Material Cost	£2.18 per metre + fittings = £229.20	Material Cost	£2.96 per metre + fittings = £322.34
Labour @ 30 mins / metre	2 metres / hour	Labour @ 10 mins / metre	6 metres / hour
50 hours @ £35	£1,750	16.67 hours @ £35	£583.45
Galvanised steel overall costs	£1979.20	MT Supertube overall costs	£905.79

The savings on this job amounts to £1073.41 – 54% CHEAPER THAN GALVANISED STEEL.

These figures are based on Marshall-Tufflex trade list price 1st December 2018 (for MT Supertube) and quoted wholesaler prices (for galvanised steel conduit).

Steel trunking systems

Steel has a mechanical strength that makes it a robust and durable option for public areas where there is a high footfall. Our steel trunking provides specifiers, contractors and end-users with reliable, practical systems with hard-wearing, clean lines and all the advantages of inherent LSOH and screening properties.

The extra depth provided by Marshall-Tufflex steel perimeter trunking systems offer increased capacity for power and data services. All earth bondings are 'friction fit' to eliminate the need for unsightly screw fixings.

- Easy to install steel trunking system
- Well known, proven and stylish design
- Increased space internally
- Lighter weight to make installation easier
- Simpler to cut

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Aluminium trunking systems

Aluminium perimeter trunking systems provide the specifier, contractor and end-user with elegant, stream-lined containment that offers the practical advantages of inherent LSOH and screening properties making it ideal for industrial environments.

Aluminium is light to handle with a mechanical strength and impact-resistance that is superior to steel. Extruded sections provide attractive profiles and products are finished with a high quality, powder-coat that provides a blemish-resistant surface.

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Case Study 1

Marshall-Tufflex keeps London Underground in the picture



Marshall-Tufflex's MT Supertube FR, formulated for applications where fire safety regulations are at their most stringent, was a key component in the upgrade of London Underground's Victoria Line OPO CCTV camera system, with more than five miles (8,100m) of the high-performance conduit installed.

Manufactured from a special three-layer LSOH conduit, MT Supertube FR delivered a superior design solution to protect cables that transmit images of the platforms to the train driver. MT Supertube FR is an alternative to steel trunking, offering much faster fit times. It is supplied in coils of up to 100m and therefore produces little wastage from cut lengths.

For the London Underground project MT Supertube FR's EMC shielding capabilities were of paramount importance, as the specifying contractor explained: "We chose MT Supertube for its ability to provide EMC shielding. It has proved a better way to segregate cables, which is greatly beneficial in London Underground applications where there are a lot of unknown cables to contend with."

MT Supertube FR meets London Underground's fire and materials specification, having undergone a series of tests conducted against the rigorous requirements set out by London Underground Ltd.

A Marshall-Tufflex spokesman said: "Having product specified for use in the London Underground system is of immense importance to us and a big rubber stamp for MT Supertube FR. The Underground is a demanding environment that calls for products of the highest calibre and performance."

Case Study 2

GRP cable management proves perfect solution for Jersey's historic rail tunnels



High humidity levels and potential fire risks posed a cable management specification challenge during work at Jersey's famous St Aubin's wartime tunnels.

Corroded casing needed replacing within the tunnels because it was considered a fire risk and required frequent repair due to high humidity levels. GRP cable management proved the perfect solution thanks to its corrosion resistance and excellent fire safety credentials.

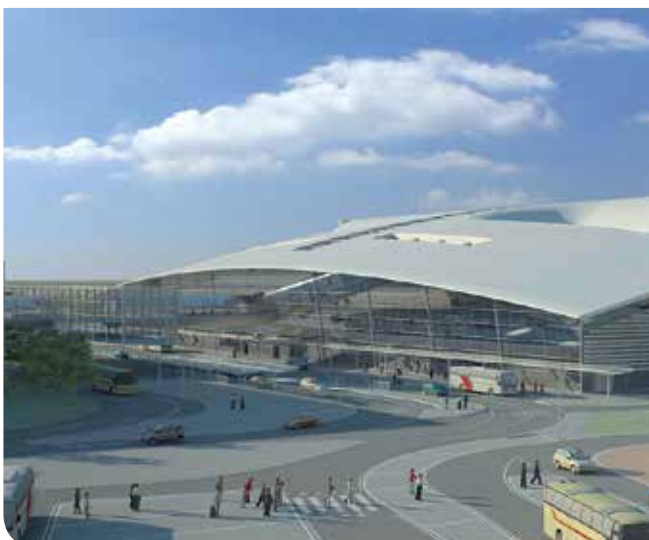
For this project GRP tray was suspended from ceilings to carry a wide range of cables, including PVC/SWA sub main, lighting SY sub-circuit, fire alarm and low voltage signal cables. Light fittings have also been fixed to the trunking's underside.

Specifier, Dave Atkinson from States of Jersey, explained why GRP was ideal for this challenging environment: "The humidity level in the tunnels at certain times of the year is very high due to water permeating through the hillside and concrete structure. Because of this moisture, the existing electrical installation had corroded.

"We chose GRP tray for the upgrade as it's resistant to humidity and fire. Apart from putting an end to the corrosion issues, St Aubin's needed a solution that would improve safety for tunnel users while also allowing maintenance teams to reduce testing regimes – something that was taking up a lot of time. Thanks its fire resistant credentials, the use of GRP has meant that periodic testing is now sufficient, in-line with BS 5839," concluded Mr Atkinson.

Case Study 3

Marshall-Tufflex systems ensure no delays at Dublin Airport passenger terminal



Behind the scenes at Terminal 2, the flagship project of the redevelopment of Dublin Airport, are thousands of metres of Marshall-Tufflex trunking products, selected for their ease and speed of installation, good looks and short lead times.

Substantial amounts of three-layer LSOH MT Supertube conduit are installed at high level and within ceilings in the main Terminal building, satisfying the project consultant's requirement for mechanical protection/segregation and a good architectural aesthetic.

Client Dublin Airport Authority had originally specified steel conduit but the project's engineering contractor, Mercury Engineering, gained agreement for a specification change to MT Supertube. A spokesman said: "It was a really tight construction programme which I knew would benefit from the time-saving features of certain Marshall-Tufflex products. MT Supertube offered two specific advantages over steel conduit. Not only is it much quicker to install, delivering significant labour saving benefits, it is also much lighter. This meant that when installed at height it was a one man, rather than a two man, lift."

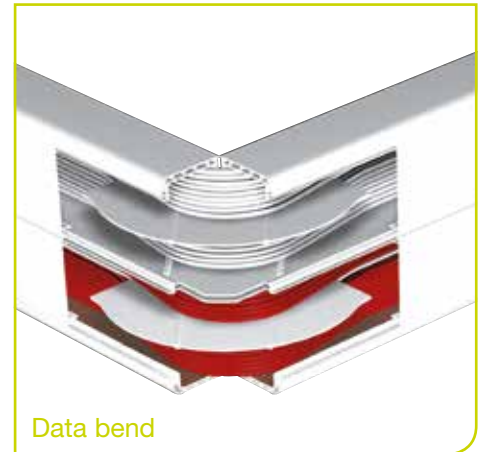
Thousands of metres of Marshall-Tufflex's unique, all-curved profile trunking Odyssey were also installed in some 150 offices within Terminal 2. The good-looking Cat 7a compliant profile was also installed in passenger booking kiosks, immigration booths, car rental offices and other front-of-house desk areas.

All Marshall-Tufflex products were supplied by its sole Irish distributor, Core Electrical Ltd.

CABLE MANAGEMENT FOR DATA INSTALLATIONS

Marshall-Tufflex cable management solutions are designed to accommodate the increasing performance levels of current and future data networks. It is important that cable containment systems measure up to the demand and offer the flexibility for reconfiguration whilst having a large data capacity to allow for future data requirements.


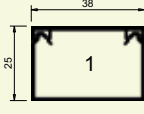

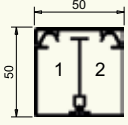
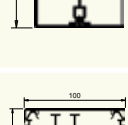
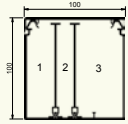

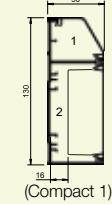

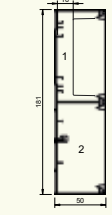

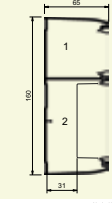

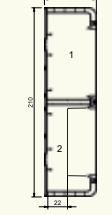
Decisions on the right system for any application are based on many factors. Marshall-Tufflex has a wide selection of data compliant perimeter trunking systems, so whatever your application, we are confident we have a solution for you.



What we offer

- Bend radius controls.
- Steel screening divider to BS EN 50174-2: 2009+A2:2014.
- 50mm power/data separation to BS EN 50174-2: 2009+A2:2014.
- Full compartment copper spray screening (to assist in meeting EMC Directive) with NO reduction of compartment capacity.
- Adjustable depth data boxes and frames.
- Accessories to accommodate LJ6 (6C) and Euromod data modules.

1 compartment trunking


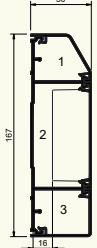
System	Dimensions	Cable Capacity based on typical values for Ø6.5mm, Ø7.0mm and Ø8.4mm data cables*										
MINI PVC-U 	 MMT4: 38 x 25mm	MMT4 Ø6.5mm Ø7.0mm Ø8.4mm	Comp 1									
			10	8	6							
MAXI PVC-U 	 MTRS50: 50 x 50mm	MTRS50 Ø6.5mm Ø7.0mm Ø8.4mm	Total (No dividers)	With dividers								
					COMP 1	COMP 2	COMP 3					
				28	12	12	–					
	 MTRS75: 75 x 75mm	MTRS75 Ø6.5mm Ø7.0mm Ø8.4mm	23 16	10 7	10 7	– – –						
							66	29	29	–		
							55	25	25	–		
 MTRS100: 100 x 100mm	MTRS100 Ø6.5mm Ø7.0mm Ø8.4mm	122 102 71	32 27 19	19 17 11	55 47 33							
COMPACT 1 & 2 PVC-U 	 Compact 1: 130 x 50mm Compact 2: 130 x 50mm (Compact 1)	Compact 1 Ø6.5mm Ø7.0mm Ø8.4mm	Comp 1	Comp 2								
					NO BOX	WITH BOX						
				17	51	20						
		Compact 2 Ø6.5mm Ø7.0mm Ø8.4mm	14 10	44 30	17 12	17 12	17 12					
								20	51	20		
								17	44	17	12	
COMPACT 3 PVC-U 	 181 x 50mm	Compact 3 Ø6.5mm Ø7.0mm Ø8.4mm	Comp 1	Comp 2								
					NO BOX	WITH BOX	NO BOX	WITH BOX				
				51	20	50	19					
		44 30	17 12	43 30	16 11	16 11	16 11					
								44	17	43	16	
								30	12	30	11	
TWIN165 PVC-U 	 160 x 65mm	Twin165 Ø6.5mm Ø7.0mm Ø8.4mm	Comp 1	Comp 2								
					NO BOX	WITH BOX	NO BOX	WITH BOX				
				44	73	42						
		38 26	63 43	36 25	36 25	36 25	36 25					
								44	73	42		
								38	63	36	25	
TWIN PLUS PVC-U & ALUMINIUM 	 210 x 57mm	Twin Plus Ø6.5mm Ø7.0mm Ø8.4mm	Comp 1	Comp 2								
					NO BOX	WITH BOX	NO BOX	WITH BOX				
				64	32	64	32					
		55 38	28 19	55 38	28 19	28 19	28 19					
								64	32	64	32	
								55	28	55	28	

All calculations allow for a 45% space factor

	Bend radius control	Internal Bend	External Bend	Flat Tee	Flat Angle	Slow Bend	For PVC-U ranges only	
							Steel insert	Copper spray
	50mm COMPLIANT UP TO CAT 7A	Moulded	Moulded	Moulded	Moulded	Special#	X	X
	25mm & 50mm COMPLIANT UP TO CAT 7A	Moulded/ fabricated	Moulded/ fabricated	Fabricated	Moulded/ fabricated	Special#	X	X (Dividing fillet can be copper sprayed)
		Fabricated	Fabricated	Fabricated	Moulded/ fabricated	Special#		
		Fabricated	Fabricated	Fabricated	Fabricated	Special#		
	50mm COMPLIANT UP TO CAT 7A	Moulded	Moulded	Fabricated	Fabricated	Special#	✓	Please contact the Technical Team on +44 (0)1424 856688 for options regarding special screening requirements
		Moulded	Moulded	Fabricated	Fabricated	Special#		
	50mm COMPLIANT UP TO CAT 7A	Moulded	Moulded	Fabricated	Fabricated	Special#	✓	Please contact the Technical Team on +44 (0)1424 856688 for options regarding special screening requirements
	25mm & 50mm COMPLIANT UP TO CAT 7A	Moulded	Moulded	Fabricated	Fabricated	Special#	✓	Please contact the Technical Team on +44 (0)1424 856688 for options regarding special screening requirements
		Moulded	Moulded	Fabricated	Fabricated	Special#		
	25mm & 50mm COMPLIANT UP TO CAT 7A	Moulded	Moulded	Fabricated	Moulded	Special#	✓	✓

These products are made to special order and may be subject to minimum order quantities and longer lead times.

* For made to order fittings to meet Cat 7a requirements please contact our Technical Team on +44 (0)1424 856688

System		Dimensions	Cable Capacity <small>based on typical values for Ø6.5mm, Ø7.0mm and Ø8.4mm data cables*</small>												
				Comp 1	Comp 2		Comp 3								
					NO BOX	WITH BOX									
STERLING PROFILE 1, 2 & 3 PVC-U		 167 x 50mm (Sterling Profile 2)	Profile 1	Ø6.5mm	17	52	18	17							
				Ø7.0mm	14	45	16	14							
				Ø8.4mm	10	31	11	10							
Profile 2	Ø6.5mm	17	52	18	20	Ø7.0mm	14	45	16	18					
											Ø8.4mm	10	31	11	12
Ø7.0mm	18	45	16	18											
					Ø8.4mm	12	31	11	12						
										Profile 1	Ø6.5mm	13	44	13	13
Ø8.4mm	8	26	7	8											
					Ø6.5mm	13	44	13	14						
										Ø7.0mm	11	38	11	12	
Ø8.4mm	8	26	7	8											
					Profile 1	Ø6.5mm	15	52	18						15
										Ø8.4mm	9	31	11	9	
Ø6.5mm	15	52	18	20											
					Ø7.0mm	13	45	16	18						
										Ø8.4mm	9	31	11	12	
Profile 1	Ø6.5mm	13	44	13											13
					Ø8.4mm	8	26	7	8						
										Ø6.5mm	13	44	13	14	
Ø7.0mm	11	38	11	12											
					Ø8.4mm	8	26	7	8						
										Mono Plus 20	Ø6.5mm	13	46	16	13
Ø8.4mm	8	28	9	8											
					Odyssey	Ø6.5mm	17	54	16						
										Ø8.4mm	10	32	9	10	


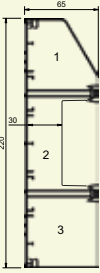
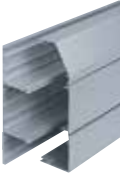
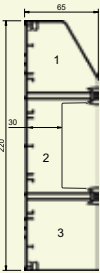

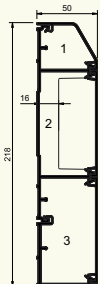

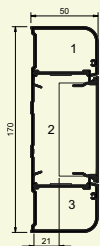
All calculations allow for a 45% space factor

	Bend radius control	Internal Bend	External Bend	Flat Tee	Flat Angle	Slow Bend	For PVC-U ranges only	
							Steel insert	Copper spray
	25mm & 50mm <small>COMPLIANT UP TO</small> CAT 7A						✓	✓
		Moulded	Moulded	Moulded	Moulded	Special#		
		Moulded	Moulded	Fabricated	Fabricated	Special#		
		Moulded	Moulded	Fabricated	Fabricated	Special#		
	25mm & 50mm <small>COMPLIANT UP TO</small> CAT 7A						N/A	N/A
		Moulded	Moulded	Fabricated	Fabricated	Special#		
		Moulded	Moulded	Fabricated	Fabricated	Special#		
		Moulded	Moulded	Fabricated	Fabricated	Special#		
	25mm & 50mm <small>COMPLIANT UP TO</small> CAT 7A						✓	Please contact the Technical Team on +44 (0)1424 856688 for options regarding special screening requirements
		Moulded	Moulded	Moulded	Moulded	N/A†		
		Moulded	Moulded	Moulded	Moulded	N/A†		
		Moulded	Moulded	Moulded	Moulded	N/A†		
	25mm & 50mm <small>COMPLIANT UP TO</small> CAT 7A						✓	Please contact the Technical Team on +44 (0)1424 856688 for options regarding special screening requirements
		Moulded	Moulded	Fabricated	Fabricated	N/A†		
		Moulded	Moulded	Fabricated	Fabricated	N/A†		
		Moulded	Moulded	Fabricated	Fabricated	N/A†		
	25mm	Moulded	Moulded	Fabricated	Fabricated	Fabricated	✗	✗ (Dividing fillet can be copper sprayed)
	25mm, 50mm & 65mm <small>COMPLIANT UP TO</small> CAT 7A						✓	Please contact the Technical Team on +44 (0)1424 856688 for options regarding special screening requirements
		Moulded	Moulded	Moulded	Moulded	N/A†		
		Moulded	Moulded	Moulded	Moulded	N/A†		

These products are made to special order and may be subject to minimum order quantities and longer lead times.

† Slow bends are not required as built-in cable guides within fittings are standard.

* For made to order fittings to meet Cat 7a requirements please contact our Technical Team on +44 (0)1424 856688

System		Dimensions		Cable Capacity <small>based on typical values for Ø6.5mm, Ø7.0mm and Ø8.4mm data cables*</small>						
XL PVC-U			220 x 65mm	XL201	Ø6.5mm Ø7.0mm Ø8.4mm	Comp 1 38 33 22	Comp 2		Comp 3	
							NO BOX	WITH BOX		
							64 55 38	33 29 20		
				XL202	Ø6.5mm Ø7.0mm Ø8.4mm	38 33 22	64 55 28	33 29 20	47 41 28	
XL ALUMINIUM			220 x 65mm	XL301	Ø6.5mm Ø7.0mm Ø8.4mm	Comp 1 36 31 21	Comp 2		Comp 3	
							NO BOX	WITH BOX		
							62 54 37	15 13 9		
				XL302	Ø6.5mm Ø7.0mm Ø8.4mm	36 31 21	62 54 37	15 13 9	47 40 28	
STERLING PROFILE 4 PVC-U			218 x 50mm	Profile 4	Ø6.5mm Ø7.0mm Ø8.4mm	Comp 1 17 14 10	NO BOX	WITH BOX	NO BOX	WITH BOX
							52 45 31	18 16 11	50 43 30	17 14 10
ELEGANCE 170 ALUMINIUM			170 x 55mm	Elegance 170	Ø6.5mm Ø7.0mm Ø8.4mm	Comp 1 23 20 14	Comp 2		Comp 3	
							NO BOX	WITH BOX		
							61 52 36	23 20 14		23 10 14

All calculations allow for a 45% space factor

	Bend radius control	Internal Bend	External Bend	Flat Tee	Flat Angle	Slow Bend	For PVC-U ranges only	
							Steel insert	Copper spray
	25mm & 50mm COMPLIANT UP TO CAT 7A						✓	Please contact the Technical Team on +44 (0)1424 856688 for options regarding special screening requirements
		Moulded	Moulded	Fabricated	Fabricated	Special [#]		
	25mm & 50mm COMPLIANT UP TO CAT 7A						✓	Please contact the Technical Team on +44 (0)1424 856688 for options regarding special screening requirements
		Moulded	Moulded	Fabricated	Fabricated	Special [#]		
	25mm & 50mm COMPLIANT UP TO CAT 7A						✓	Please contact the Technical Team on +44 (0)1424 856688 for options regarding special screening requirements
		Moulded	Moulded	Fabricated	Fabricated	Special [#]		
	25mm & 50mm COMPLIANT UP TO CAT 7A						N/A	N/A
		Fabricated	Fabricated	Fabricated	Fabricated	Fabricated		

These products are made to special order and may be subject to minimum order quantities and longer lead times.

† Slow bends are not required as built-in cable guides within fittings are standard.

* For made to order fittings to meet Cat 7a requirements please contact our Technical Team on +44 (0)1424 856688

For Technical Information about usage of data trunking, please see page 242.

TRUNKING FOR LABORATORY AND HEALTHCARE ENVIRONMENTS

Marshall-Tufflex has many years of experience in providing cable management solutions for medical and healthcare environments.

Trunking systems for this specialised type of application are available in both aluminium and PVC-U, to carry gas, power, data, telecoms and nurse call, providing first class screening performance and optional antimicrobial protection.

PRODUCTS BY APPLICATION



What we offer

- PVC trunking that is easy to install and clean.
- Aluminium systems with multiple compartments providing LSOH containment for wiring, gas and air services.
- BIO trunking solutions to prevent the spread of infections and disease in environments such as hospitals, care homes, surgeries and health centres.

Built-in protection

Where hygiene is a priority, we offer cable management systems with integral antimicrobial properties. By incorporating silver ions within the PVC-U based material the perimeter trunking will deliver ongoing antimicrobial protection that prevents 99.9% of harmful bacteria.

Because the Marshall-Tufflex Bio trunking solution is integral to the PVC-U material, there is no reduction in effectiveness of the trunking throughout its life – even if it is scratched or damaged.

Bio trunking uses a silver ion solution throughout the product, ensuring that 99.9% of harmful bacteria – like MRSA – will not survive on the surface.



PVC-U trunking

Compact

130 x 50mm to 181 x 50mm

A range of small and medium sized, two compartment, dado and skirting systems with varying compartment sizes suited to fit within areas that have trunking height restrictions, for example to negotiate radiators or window sills. Compartments can be subdivided if required.



Page 59

Odyssey

180 x 57mm

Curved profile dado trunking with one main compartment and two smaller compartments designed specifically for heavy traffic areas such as hospitals. Odyssey's completely curved profile is designed to prohibit clutter, avoid dust traps and makes cleaning easy. Compartments can be subdivided if required.



Page 83

Mono Plus 20

140 x 50mm

An economical and stylish 3 compartment dado trunking for use where space is limited. Mono Plus has one piece fittings with a single lid for improved security.



Page 57

Twin Plus

210 x 57mm

An attractive high capacity segregated two compartment containment system which is ideal for carrying power and data services. Compartments can be subdivided and screened if required.



Page 86

Sterling Profile 1

167 x 50mm

A popular stylish medium sized trunking system for dado application with three segregated compartments. Sterling Profile 1 has been tried and tested within the laboratory and healthcare environment over many years. Compartments can be subdivided and screened if required.



Page 68

Bench trunking

105 x 105mm

An easy to install robust, angled trunking that can be mounted directly on laboratory and medical workbenches or angled under shelving. Compartment can be subdivided if required.



Page 115

Sterling Curve

167 x 50mm

Sterling Curve is a stylish medium sized trunking system for dado and skirting application with three segregated compartments.

Sterling Curve Profile 1 has curved outer compartments designed to stop clutter, avoid dust traps and make cleaning easy.



Page 77

Odyssey and Sterling Curve are available as standard with Bio antimicrobial protection within the PVC-U material. See page 40.

Aluminium trunking systems

Bench trunking

105 x 105mm

A robust, angled trunking that can be subdivided and is suitable for laboratory and medical workbenches or angled under shelving. A PVC-U dividing fillet is available if required.



Page 152

XL trunking

220 x 65mm

A range of large three and four compartment dado and skirting trunking systems with separate compartments and individual covers. XL Trunking can accept gas and air outlets. A PVC-U dividing fillet is available if required.



Page 170

Sterling Curve Aluminium Profile 1 and 2

167 x 50mm

Sterling Curve Aluminium is a robust and stylish Cat 7a compliant perimeter dado or skirting system designed to stop clutter, avoid dust traps and to make cleaning easy.

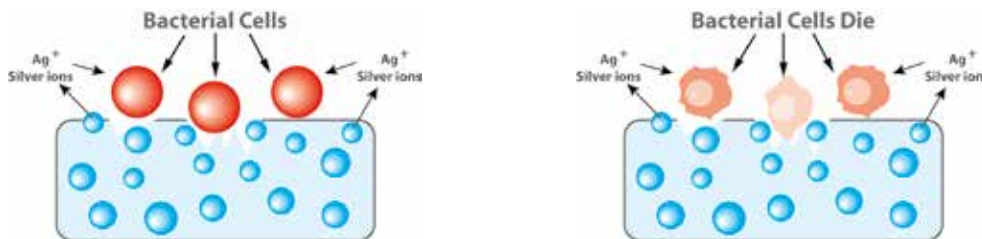


Page 160

Bio trunking solutions offer:

- Prevention of harmful bacteria growth (for more details see test results on page 293).
- Antimicrobial properties inherently formulated within the PVC-U and ABS compounds.
- A durable, non-leaching antimicrobial treatment.
- Testing to ISO 22196:2011.
- Proven silver ion-based technology to neutralise any bacteria with which it comes into contact.
- Registration with the Environmental Protection Agency (EPA).
- Compliance with the European Biocidal Products Directive (BPD).
- Proven reductions in bacterial viable count by more than 99.9%.
- Antimicrobial treatments provide an extra level of protection when combined with normal cleaning procedures.

Bio trunking can be identified by using a UV light on the external surface of the trunking. The Bio system will reflect blue under UV light rather than violet.



Bio trunking from Marshall-Tufflex

Odyssey and Sterling Curve Profile 1 trunking are available as standard with Bio antimicrobial protection within the PVC-U material. The following trunking ranges are available in Bio but are made to order and therefore will incur set up charges and an extended lead time.

Bench trunking • Compact • Mono Plus 20 • Sterling Profile • Twin Plus • XL

Odyssey Bio trunking component chart										
Trunking assembly	Coupler	End cap	Internal bend	External bend	Flat angle*	Flat tee *	Accessory box 1 gang Bio	Accessory box 2 gang Bio	Mounting frame 1 gang Bio	Mounting frame 2 gang Bio
Odyssey 180 x 57mm	DD1213WH Pack 1	DD1233WH Pack 2	DD1313WH Pack 1	DD1353WH Pack 1	DD1413WH Pack 1	DD1433WH Pack 1	DD1513WH Pack 20	DD1523WH Pack 10	DD1561WH Pack 20	DD1571WH Pack 10

Sterling Curve Bio trunking component chart										
Main compartment cover	Curve cover	Coupler	End cap	Internal bend	External bend	Flat angle complete*	Flat tee complete*	Accessory box 1 gang Bio	Accessory box 2 gang Bio	
Sterling Curve Profile 1 167 x 50mm	ETL1BIOWH Pack 8 x 3m	CETC1BIOWH Pack 8 x 3m	CECP1MBIOWH Pack 2	CEEC1MBIOWH Pack 2	CEIBP1MBIOWH Pack 2	CEXBP1MBIOWH Pack 2	CEFA1MBBIOWH Pack 1	CEFT1MBBIOWH Pack 1	ESSB1BIOWH Pack 20	ESSB2BIOWH Pack 10

* Manufactured from ABS

PVC material test results

LABORATORY Anti-Microbial Test Division, Kyoto Biseibutsu Kenkyusyo, Yamashina-ku, Kyoto 607-8482, Japan
TEST ORGANISM MRSA (Methicillin Resistant Staphylococcus aureus) Escherichia coli
STANDARD ISO 22196 / JIS Z 2801:2000

Quantitative Assessment of Activity – MRSA (Methicillin Resistant Staphylococcus aureus)				
	Number of live organisms (Colony Forming Units)		% reduction of Colony Forming Units, expressed as comparison with control	
	0 hours	24 Hours		
Control – Untreated polyethylene film	110,000	96,000	–	–
PVC	110,000	<10	>99.98% Reduction	VERY GOOD

Quantitative Assessment of Activity – Escherichia coli				
	Number of live organisms (Colony Forming Units)		% reduction of Colony Forming Units, expressed as comparison with control	
	0 hours	24 Hours		
Control – Untreated polyethylene film	110,000	14,000,000	–	–
PVC	110,000	<10	>99.99992% Reduction	EXCELLENT

ABS material test results

LABORATORY Thomson Research Associates Inc., Ontario, Canada
TEST ORGANISM Klebsiella pneumonia, Staphylococcus aureus
STANDARD ISO 22196:2011

Quantitative Assessment of Activity – K. pneumoniae				
Concentration of starting inoculum		1.92 x 10 ⁵		
Sample Description	No. Bacteria Recovered	Log Value	R=[log(B/C)]	% Reduction
Inoculum Control	8.39 x 10 ⁶	6.9	–	–
ABS	<2.00 x 10 ¹	<1.3	>5.6	>99.9%

Quantitative Assessment of Activity – S. aureus				
Concentration of starting inoculum		2.96 x 10 ⁵		
Sample Description	No. Bacteria Recovered	Log Value	R=[log(B/C)]	% Reduction
Inoculum Control	1.00 x 10 ⁶	6.0	–	–
ABS	1.04 x 10 ²	2.0	4.0	>99.9%



Bio trunking has demonstrated effectiveness against:

- Methicillin resistant Staphylococcus aureus (MRSA): an antibiotic resistant, opportunist pathogen that can survive on surfaces within the hospital environment.
- Klebsiella pneumoniae: an opportunist pathogen affecting people with a weakened immune system.
- Escherichia coli: All of us are colonised by E.coli in our gut but this bacterium can cause infections if it is transferred to a wound or a different part of the body causing severe food-associated illness.

Case Study 1

Selby project showcases benefits of Twin Plus trunking



Bio antimicrobial Twin Plus trunking proved the perfect choice for the £22 million Selby Community Project, a collaboration between the NHS and local authority to locate a community hospital, health clinic and council offices into a shared new build in the North Yorkshire town.

Large capacity Twin Plus is available in standard and antimicrobial versions, allowing consulting engineers DSSR to specify antimicrobial Bio Twin Plus for the hospital and standard Twin Plus for the council offices, creating a continuous aesthetic throughout the building. The hospital has 24 GP-led beds, a minor injuries unit, diagnostic facilities and minor surgery suite. It achieved a rating of 'excellent' against BREAAAM, the international environment assessment tool.

DSSR said: "Bio Twin Plus offers the really valuable properties of an antimicrobial trunking system where it matters most, in the healthcare environment. Infection control is a huge issue and Bio Twin Plus supports cleaning regimes by working 24/7 in the fight against harmful bacteria."

Silver-ion protection is added to Bio's PVC-U formulation during manufacture, meaning that the bug-busting solution is incorporated within the Twin Plus. As a result it works 24 hours a day for the life of the trunking to kill bacteria such as MRSA, E-Coli and Salmonella, even if the trunking is scratched or knocked.

Bio Twin Plus has been tested to the quantitative standard ISO 22196:2007. Results show the survival rate of tested bacteria to be less than 0.1%. Marshall-Tufflex's Bio formulation is registered with the Environmental Protection Agency (EPA) and compliant with the European Biocidal Products Directive (BPD).

Case Study 2

White aluminium trunking does Sterling job for hospital



Specifiers working on ward upgrades at a leading South-West hospital required a cable management solution that met the cleanliness and durability requirements of the ward environment coupled with the capacity and flexibility to deliver bed-head services.

Facilities managers at Barnstaple's North Devon District Hospital had also requested that the trunking system installed was metal, further narrowing specification choices. Sterling Profile 2 in white aluminium delivered the ideal solution.

Andy Scourfield, of specifiers M&E Masters, Barnstaple, said: "We had to choose a trunking solution suitable for the medical environment. In other wards at the hospital PVC trunking has been used but for the most recent upgrades the hospital stipulated metal for its enhanced hygienic properties. The other big plus point of Sterling was price; it presented the most economically viable solution compared with other products of its type.

"We're big supporters of Marshall-Tufflex at M&E Masters. It's the first time we've used Sterling Profile 2 in aluminium but for the right application, it's definitely something we'd use again," added Mr Scourfield.

Sterling Profile 2 in aluminium comprises three separate compartments, each with its own cover making it ideal for the multiple services on a hospital bed head such as lighting, communication and patient monitoring equipment.

SPECIALISED SOLUTIONS

Marshall-Tufflex's Specialised Solutions team was set up with the specific aim of working with clients to find a way around their installation challenges. This dedicated team addresses some of the difficult cable management problems encountered by designers, consulting engineers and contractors and, with the help of the in-house Design Office, fabricates versatile design solutions that combine functionality, style and safety.

CAMBRIDGE UNIVERSITY

Product: Light Oak trunking to meet Historic England approval

Cambridge University's historic Fitzwilliam Museum required a skirting trunking system that would be a good match to the light oak floor. The building and its galleries are Grade 1 listed so the specification also had to meet with Historic England's approval.

"Marshall-Tufflex's Sterling Profile 3 in Light Oak was the closest match," said Darren Potter, Chief Technician of Facilities at the Fitzwilliam Museum. "We chose Sterling Profile 3 as it had square edges rather than bevelled ones, making it easier for us to fit the trunking flush into the skirting void behind the wall," said Darren.



NEWQUAY SCHOOL

Product: Curved trunking



Architectural practice, The Bazeley Partnership, designed a new IT department within the sixth form of Tretharras School in Newquay for Cornwall County Council.

The architects' design included curved cable containment wrapped around a central workstation as the focal point of the room.

CCC's senior electrical engineer, David Shuff, turned to Marshall-Tufflex for a solution that could cope with the curved external and internal bends, all at dado level.

Marshall-Tufflex recommended its multi-compartment PVC-U perimeter cable management system, Sterling Profile 1, of which 40 metres was pre-curved to order.

"With the nature of this circular design, the trunking was a key element. Only Sterling could give us scope to achieve the architect's vision, and the end result has met everyone's expectations."

Cornwall County Council

WOODWATER HOUSE

Product: Horizontal PowerPoles

Marshall-Tufflex provided a spectacular solution for Michelmores Solicitors' striking glass building in Exeter.

PowerPoles in aluminium were specified to blend in with existing steel columns, manufactured with special bends and suspended horizontally around the building to carry power and low voltage lighting in a way that sympathised perfectly with the existing steel work.

TES Projects Ltd, contractors for the installation commented: "The system suits the purpose really well, it carries segregated fire alarm and door entry cabling and it all looks really good."



UNIVERSITY OF WARWICK

Product: Special paint finish for aluminium trunking



Elegance 110 and Bench trunking both in aluminium were supplied with custom paint finishes in RAL 7035 Light Grey and RAL 7016 Anthracite Grey to match new benches at the University of Warwick's School of Engineering.

The colour matching greatly enhanced the overall appearance of the project of two refurbished teaching laboratories, where power and data connections to laboratory workbenches were situated for computers and test equipment.

"Apart from the look and functionality, we also required a quick turnaround, and Marshall-Tufflex was able to supply the trunking within a very tight timescale – a major factor in enabling us to complete the project on time."

Jonathan Meadows, Senior Electrical Technician at the School of Engineering

BIRMINGHAM UNIVERSITY

Product: Sterling Profile 3 aluminium – matt black

Marshall-Tufflex has supplied Birmingham University's School of Physics and Astronomy with an unusual trunking for the laboratories housing a study into the behaviour of cold atoms.

To aid the study into quantum phenomena by exploiting cold atom gases as a unique window into the quantum world, the laboratory is fitted out with matt black trunking. This acts as a safety measure because the work utilises high powered lasers. Should a laser beam escape, a matt black trunking will absorb the light.

The aluminium Sterling Profile 3 feeds power and data at dado height around the laboratories and has also been installed on overhead canopies sited above work benches.



WARWICK UNIVERSITY STUDENT ROOMS

Product: Odyssey trunking

A bespoke cable management solution was delivered to a tight deadline ensuring halls of residence at the University of Warwick were ready to welcome students in time for the new term.

Bespoke lengths of 2.25m were cut to size to fit-out student rooms in the Arthur Vick Residence at Warwick University. The Odyssey trunking was supplied in white with flush fitting charcoal accessory boxes to comply with Part M of the Building Regulations.

The dado trunking delivers data and electricity to desk areas in each of the 150 study rooms and was part of a refit of the whole residence. The halls are in constant use so the pressure was on to complete the refurbishment during the university vacation time.

Marshall-Tufflex has a dedicated team to deal with special projects where cable management products are fabricated to customised design and specification. The team was able to provide the bespoke cut lengths with a quick turnaround, helping the refit stay on track and on budget.



“The system was chosen to enhance the look of the student rooms and also to provide the most cost-effective and timely solution. He said: “I have used Odyssey many times in the past and it looks aesthetically pleasing and is a very good product. We only had 10 weeks on site and I wanted to limit any waste in terms of time and materials. Having the product cut to size in the factory and delivered as a complete package for each study bedroom meant that it could be easily fitted into place with no waste. This has delivered a very good result.”

Gary Price, Electrical Design Engineer, University of Warwick Estates

Pre-formed trunking



PVC-U trunking systems can be pre-curved to order for installation on curved walls and curved furniture.

Please contact the Technical Team on +44 (0)1424 856688 for a bespoke quotation.

Please note minimum bend radius is required

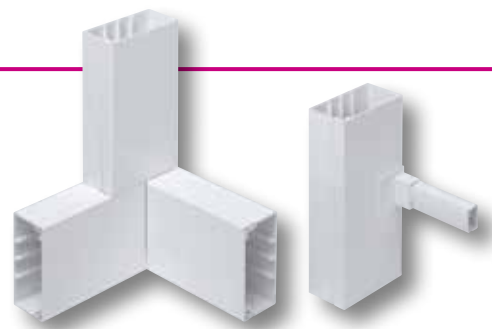
PowerPost suspended



Ceiling-mounted units supplying various services are available as fixed items.

Combination bend

A combination internal bend to flat angle and adaptor to mini trunking. These can be made to order for most PVC-U trunking.



135°/45° bends

135°/45° bends in a variety of profiles can be fabricated to order. Other angles can also be produced upon request.

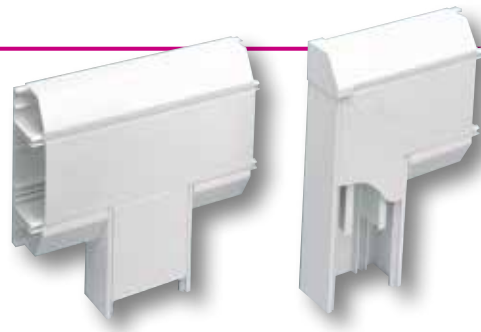
PVC trunking reducer

A section of trunking which has been reduced in depth so that it can pass behind radiators or pipes.



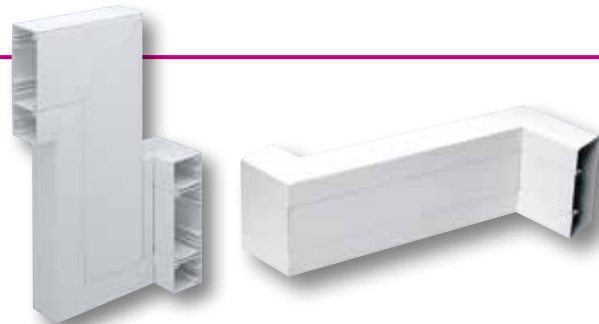
Fabricated connections

Fabricated units for joining or interconnecting two different sizes or models of PVC-U trunking.



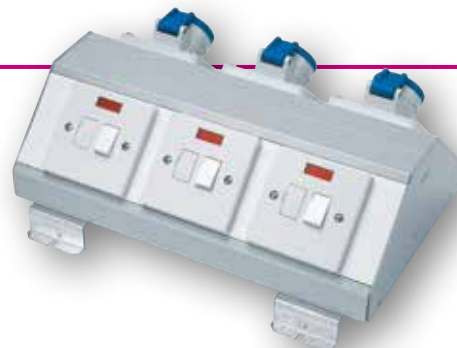
Profile sets

Pre-fabricated sets for negotiating columns, window bays and non-standard corners.



Multi-service pods

IEC 60309 industrial sockets on back to back aluminium bench trunking with 25mm raised brackets to raise units above any floor level water collection.



PVC-U PERIMETER TRUNKING SYSTEMS

PVC-U perimeter trunking is an ideal solution for the containment of data, communication and power cabling.

PVC-U PERIMETER TRUNKING SYSTEMS

Our PVC-U cable containment systems are easy to install, light to handle and cost-effective to use. We have a wide range of PVC-U trunking solutions in different heights, designs and cable capacities for the distribution of power and data; making it an excellent choice of material for the majority of commercial, education and healthcare environments. PVC-U is a self-extinguishing material and therefore helps to stop the spread of fire.

We are very proud that our PVC-U products have been manufactured using 80%* recycled material in the last year. This equates to 300 double decker buses of PVC-U that we have prevented going to landfill!

All we are changing is the environment, using recycled PVC-U reduces green house gases by 20 times compared to virgin PVC-U. Reassuringly we have been using recycled material for over 20 years, we take our impact on the environment seriously and are doing our best to minimise our effect.

(* Figures based on our production usages from 1/1/18 - 31/12/18)



Standard colour

The standard colour for each Marshall-Tufflex perimeter trunking range is shown within each relevant product information section, although solid white RAL 9003 is our most popular colour option.

The below table identifies the relevant RAL colour reference for our standard colour options, dependent on product range. We would be happy to quote for any other colour requirements, please see the Special Colours section below.

Standard Colours	
WH	CH
WH: White CH: Charcoal	

Material	Standard colour	Colour code suffix	RAL
PVC-U	Solid White Charcoal	WH CH	9003 7021

Please note: it is dependent on the product range as to which colour is available as standard.

Special colours and finishes



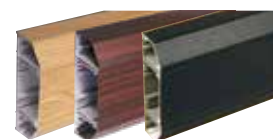
To help enhance the style of an installation, different variations of solid colour are sometimes required.

We can provide special colours in either a solid PVC-U solution or a painted solution dependent on your client's preference. All special colours requirements will need to be specified as a RAL colour.

Please note: due to different processes and materials utilised, it may not always be possible to obtain an exact colour match between the extruded and moulded product.

Woodgrain finishes

For a truly authentic look, we are able to quote for a range of different finishes. (Please note visible fittings would be supplied in a closely matched solid colour.)



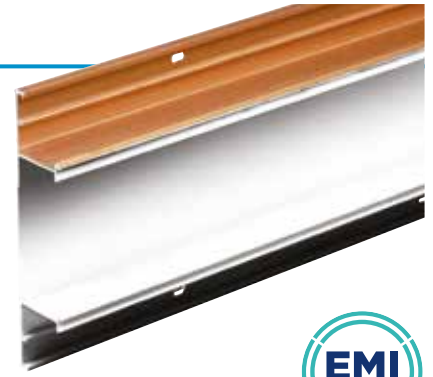
Please note: these colours and finishes are made to order and therefore are subject to set up charges, minimum order quantities and a longer lead time. For more information and a quotation contact our Technical Team on +44 (0)1424 856688.

Copper screening

A special conductive spray coating is applied to the relevant section of the trunking or fittings to assist in screening data cables against EMI interference with no reduction in cable capacity.

Marshall-Tufflex offer a standard range of copper screened products within selected PVC-U perimeter trunking systems which are shown within this catalogue and are held in stock.

If you have a requirement for products to be copper screened that are not part of our standard range, please contact our Technical Team on +44 (0)1424 856688. Please note that non standard products are made to order and therefore are subject to set up charges and a longer lead time.



Bio antimicrobial trunking



Where hygiene is a priority, Marshall-Tufflex has a solution with integral antimicrobial properties that can be incorporated within the PVC-U perimeter trunking and deliver ongoing antimicrobial protection that prevents 99.9% of harmful bacteria.

Because the Marshall-Tufflex Bio trunking solution is integral to the PVC-U material, there is no reduction in effectiveness of the trunking throughout its life – even if it is scratched or damaged.

We hold stock of key Odyssey and Sterling Curve trunking components with Bio antimicrobial protection due to its popularity.

The following trunking systems; Compact trunking, Mono Plus 20 trunking, Sterling Profile, Twin Plus trunking and XL trunking are also available in Bio but not available as standard.



Please note: non standard products are made to order and therefore are subject to set up charges and a longer lead time. For more information and a quotation contact our Technical Team on +44 (0)1424 856688.

Environmental & sustainability

- We use recycled PVC-U in our manufacturing process, reducing carbon emissions in doing so.
- Research has shown that the use of recycled PVC offers a 20-fold reduction in greenhouse gas (GHG) emissions compared to virgin product.
- 100% recyclable material and has a long life cycle. We encourage our products to be recycled at the end of their useful life.
- PVC-U is a cost-effective, sustainable choice and comparable with other materials such as steel, aluminium, copper and wood.
- Virgin grade PVC-U has the lowest oil content of a commodity plastic.
- No increase in dioxin emission from Municipal Waste Incineration. No phthalates used in manufacture of PVC-U or FR-ABS.
- Lead-free formulations are used for mouldings and extrusions.
- No use of cadmium-based stabilisers or pigments.

EMI protection

- Some PVC-U systems are available with a coating that provides effective screening against electromagnetic interference with no reduction in cable capacity.
- Steel screening insert option.
- Aluminium screening insert option.

Fire performance


- The fire rating for PVC-U is excellent* and PVC-U has all the characteristics required for Fire Escape Time.
- Highly resistant to ignition.
- Does little to contribute to the spread of fire and is classified to Building Regs: Class 0.
- PVC-U chars and is self-extinguishing.
- Has a low rate of smoke production during the early stages of a fire.
- Acts as an effective barrier to flame spread from malfunctioning electrical components within systems.
- Does not produce flaming droplets or burning debris.
- ABS fittings fire rated to UL94 V0.

*see the independent report at www.beama.org.uk

PVC-U multi-compartment perimeter trunking is available in different heights, designs, cable capacities and numbers of compartments to suit all installation requirements. Standard PVC-U products are supplied as white. For further information on colour and finish options please refer to page 50 or call our Technical Team on +44 (0)1424 856688.


Note: you may use the rule on the left of this page to check profile sizes.

Mono 10
100 x 50mm
 Small trunking with a single cover suitable for dado application and as a feeder trunking.  **Page 55**

Sterling Profile 1
167 x 50mm
 Dado trunking with three separate compartments and individual covers for each compartment.  **Page 68**


Mono Plus 20
140 x 50mm
 Dado trunking with three compartments and a single cover.  **Page 57**

Sterling Profile 2
167 x 50mm
 Dado and skirting trunking with three separate compartments and individual covers for each compartment.  **Page 68**

Compact 1
130 x 50mm
 Dado trunking with one full and one half size compartment.  **Page 59**

Sterling Profile 3
167 x 50mm
 Skirting trunking with three separate compartments and individual covers for each compartment.  **Page 68**

Compact 2
130 x 50mm
 Dado and skirting trunking with one full and one half size compartment.  **Page 61**

Sterling Profile 4
218 x 50mm
 Large dado and skirting trunking with one half size and two full compartments with the option of extending the height.  **Page 74**

Compact 3
181 x 50mm
 Dado and skirting trunking with two full size compartments.  **Page 63**

Sterling Curve Profile 1
167 x 50mm
 A curved dado trunking with three segregated compartments.  **Page 77**

Twin165
160 x 65mm
 A mid-size dado trunking with one full size compartment and one two-thirds size compartment to accommodate Cat 6 and Cat 6a data cabling.  **Page 66**

Sterling Curve Profile 2
167 x 50mm
 A curved skirting trunking with three segregated compartments.  **Page 77**

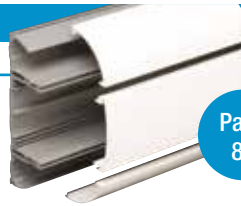


PVC-U perimeter trunking systems

Odyssey

180 x 57mm

Curved profile dado trunking with one main compartment and two smaller outer compartments.



Page 83

Twin Plus

210 x 57mm

Large dado and skirting trunking with two deep compartments incorporating segregation of power and data.

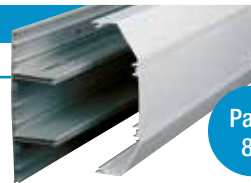


Page 86

XL201

220 x 65mm

Extra large dado trunking with three deep compartments.



Page 89

XL202

220 x 65mm

Extra large skirting trunking with three deep compartments.

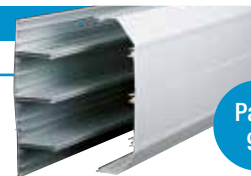


Page 89

XL211

308 x 65mm

Extra large dado trunking with four deep compartments.

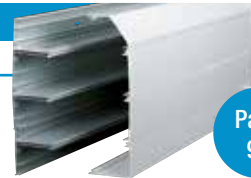


Page 93

XL212

308 x 65mm

Extra large skirting trunking with four deep compartments.



Page 93

Note: you may use the rule on the left of this page to check profile sizes.

Part M

DDA COMPLIANT BOXES FOR VISUAL IMPAIRMENT

Part M of the UK Building Regulations for Visual Impairment requires that face plates differ in colour from their background. Coloured accessory boxes provide a different colour frame to contrast against standard white accessories and are offered as part of our standard product range in blue (RAL5002) and charcoal (RAL7021). Two ranges are available, one compatible with Odyssey and one compatible with other PVC-U and Aluminium trunking systems.



Odyssey trunking with Part M boxes.



Sterling Profile 1 with charcoal Part M flush plate.

Plates are available in other colours subject to set up charges, minimum order quantities and longer lead times.



1 and 2 gang accessory boxes for Odyssey trunking

code	description	pack
DD1510BU	1 gang – blue	20
DD1510CH	1 gang – charcoal	20
DD1520BU	2 gang – blue	10
DD1520CH	2 gang – charcoal	10

1 and 2 gang power and data mounting frame for Odyssey trunking

code	description	pack
DD1560BU	1 gang – blue plate	2
DD1560CH	1 gang – charcoal plate	2
DD1570BU	2 gang – blue plate	2
DD1570CH	2 gang – charcoal	2

Accessory box adaptor for Odyssey trunking (ABS)

code	description	pack
DD1590BU		1 pair

1 and 2 gang accessory boxes with coloured flush plate for PVC-U and Aluminium trunking systems

code	description	pack
ESPM1BU	1 gang – blue plate	1
ESPM1CH	1 gang – charcoal plate	1
ESPM2BU	2 gang – blue plate	1
ESPM2CH	2 gang – charcoal plate	1

Retrofit accessory box spacer for PVC-U and Aluminium trunking systems

code	description	pack
ES3BU	Part M spacer – blue	4
ES3CH	Part M spacer – charcoal	4



For more information and a quotation contact our Technical Team on +44 (0)1424 856688

MONO 10 TRUNKING

Mono 10 is a compact trunking that is perfectly suited for the smaller office or workshop area.

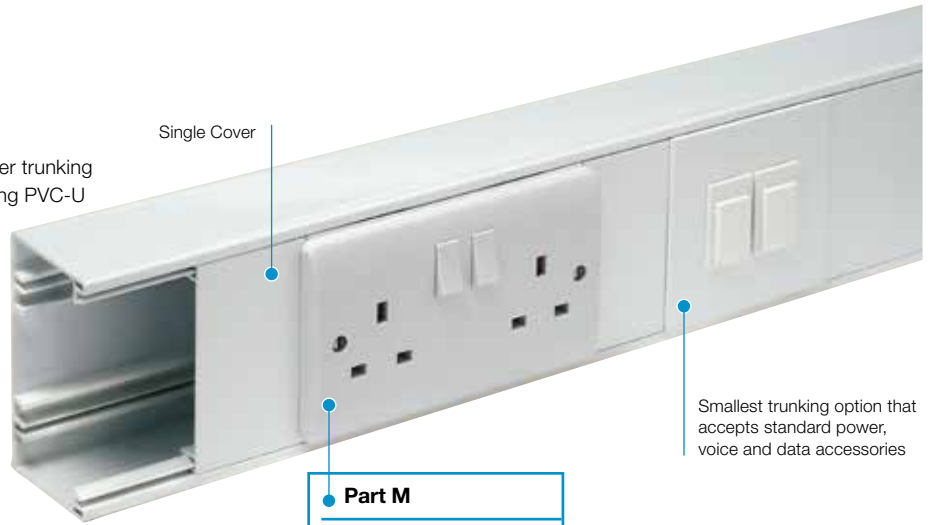


Product information

- 100 x 50mm
- 1 main compartment
- Can be subdivided
- Suitable for dado application and as a feeder trunking
- Self extinguishing and non-flame propagating PVC-U
- Fire clips available to secure cables within trunking and prevent premature collapse in the event of a fire

Data information


- Compliant up to Cat 7a*
- Standard bend radius 25mm
- Adjustable data box 32-40mm



Standard Colour
WH
WH: White

Part M

For box assemblies and spacers that meet the requirements of Part M (DDA) please refer to page 54.



***Data fittings**

For made to order fittings to meet Cat 7a requirements please contact our Technical Team on +44 (0)1424 856688

Basic components



Mono 10 trunking assembly

code	size	pack
EPM10WH	100 x 50mm	1 x 3m

REASSURINGLY RECYCLED

OUR MONO 10 TRUNKING BUILT UP PROFILE IS MANUFACTURED USING 11% RECYCLED MATERIAL. WE ARE WORKING TO INCREASE THE LEVEL OF RECYCLED MATERIAL USED IN THIS RANGE.

Fittings



Coupler

code	pack
EC10WH	2



End cap

code	pack
EEC10WH	2



Internal bend

code	pack
EIB10WH	2



External bend

code	pack
EXB10WH	2



Flat angle cover

code	pack
EFA10WH	1



Flat tee

code	pack
EFT10WH	1

Fabricated

p245

Technical Information

PVC-U PERIMETER TRUNKING SYSTEMS

Components



Dividing tray

code	pack
EDF2	8 x 3m



Cable retainer

code	pack
EMCR1	10

Firefly clips



NEW

Fire clip Mono 10 centre compartment

code	pack
FCM10C	100



NEW

Don't forget, Firefly clips to comply with the current edition of BS 7671 Wiring Regulations

See page 141 for more information

Boxes and plates



***RCD/MCD housing**

code	depth	pack
EAHC1MWH		1

*Up to 4 modules can be accommodated
Note: RCDs are not supplied by Marshall-Tufflex



1 gang accessory box

code	depth	pack
ESSB1WH	30mm	20



2 gang accessory box

code	depth	pack
ESSB2WH	30mm	10



Accessory box spacer

code	size	pack
ES1WH	14mm	4

For use between accessory boxes



1 gang adjustable depth box

code	depth	pack
EAB1WH	32 – 47mm	10



2 gang adjustable depth box

code	depth	pack
EAB2WH	32 – 47mm	5



1 gang accessory plate

code	pack
ESSP1WH	2



2 gang accessory plate

code	pack
ESSP2WH	2

Please see page 261 for more information on the range of adjustable boxes

Part M

For assemblies and spacers that meet the requirements of Part M (DDA) please refer to page 54.



MONO PLUS 20 TRUNKING



'Bio option' available to special order

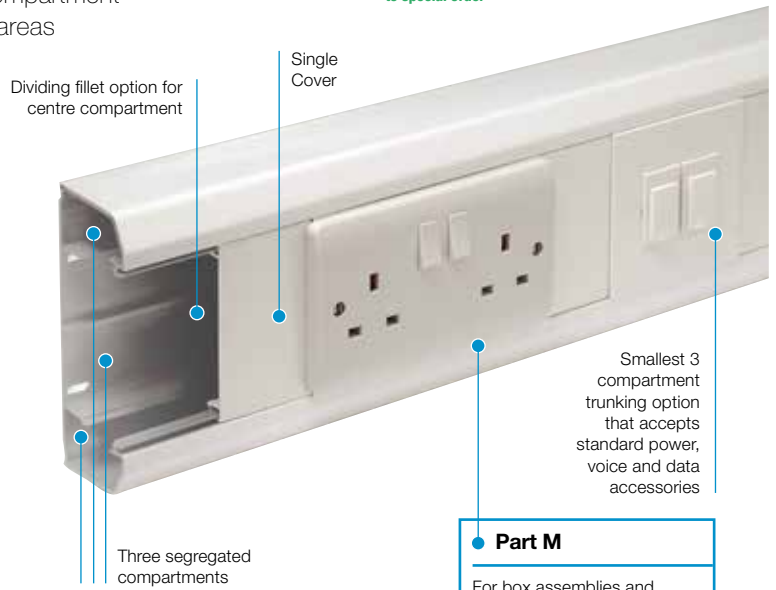
Mono Plus 20 is an economical and stylish three-compartment trunking, compact in size and designed to fit within areas that may have trunking height restrictions.

Product information

- 140 x 50mm
- 1 main compartment and 2 smaller outer compartments
- Can be subdivided
- Suitable for dado application
- Self extinguishing and non-flame propagating PVC-U
- Fire clips available to secure cables within trunking and prevent premature collapse in the event of a fire

Data information

- Compliant up to Cat 7a
- Standard bend radius 25mm
- Data fittings available for bend radius up to 50mm
- Adjustable data box 32-40mm



Standard Colour
WH
WH: White

Part M

For box assemblies and spacers that meet the requirements of Part M (DDA) please refer to page 54.

Basic components



Mono 20 Trunking Assembly

code	size	pack
EPM20WH	140 x 50mm	1 x 3m



Trunking base (including 2 dividing fillets)

code	pack
EMT20WH	4 x 3m



Main compartment cover

code	pack
ETL1WH	8 x 3m

REASSURINGLY RECYCLED

OUR MONO PLUS 20 TRUNKING BUILT UP PROFILE IS MANUFACTURED USING 82% RECYCLED MATERIAL.

Fittings



Coupler

code	pack
EC20WH	2



End cap

code	pack
EEC20WH	2



Internal bend

code	pack
EIB20WH	2



External bend

code	pack
EXB20WH	2



Flat angle

code	pack
EFA20WH	1

Fabricated



Slow bend

code	pack
EFA20SBWH	1

Fabricated

p245

Technical Information

Fittings



Flat tee

code	pack
EFT20WH	1

Fabricated



Flat tee Gusseted

code	pack
EFT20GTWH	1

Fabricated

Components



Dividing fillet

code	pack
EDF1	8 x 3m



Main crossover bridge

code	pack
EMCB1	5



Main cable retainer

code	pack
EMCR1	10

Firefly clips



NEW

Fire clip Mono 20 centre compartment

code	pack
FCM20C	100



NEW

Don't forget, Firefly clips to comply with the current edition of BS 7671 Wiring Regulations

See page 141 for more information

Boxes and plates



***RCD/MCD housing**

code	pack
EAC1MWH	1

*Up to 4 modules can be accommodated
Note: RCDs are not supplied by Marshall-Tufflex



1 gang accessory box

code	depth	pack
ESSB1WH	30mm	20



2 gang accessory box

code	depth	pack
ESSB2WH	30mm	10



Accessory box spacer

code	size	pack
ES1WH	14mm	4

For use between accessory boxes



1 gang adjustable depth box

code	depth	pack
EAB1WH	32 – 47mm	10



2 gang adjustable depth box

code	depth	pack
EAB2WH	32 – 47mm	5



1 gang accessory plate

code	pack
ESSP1WH	2



2 gang accessory plate

code	pack
ESSP2WH	2

Please see page 261 for more information on the range of adjustable boxes

Part M

For assemblies and spacers that meet the requirements of Part M (DDA) please refer to page 54 of this section.



COMPACT 1 TRUNKING

Compact 1 is a small, fully segregated two compartment trunking system with a chamfered top profile. This trunking is suited to fit within areas where physical outside dimensions are important, for example, to negotiate above or below radiators and window sills.



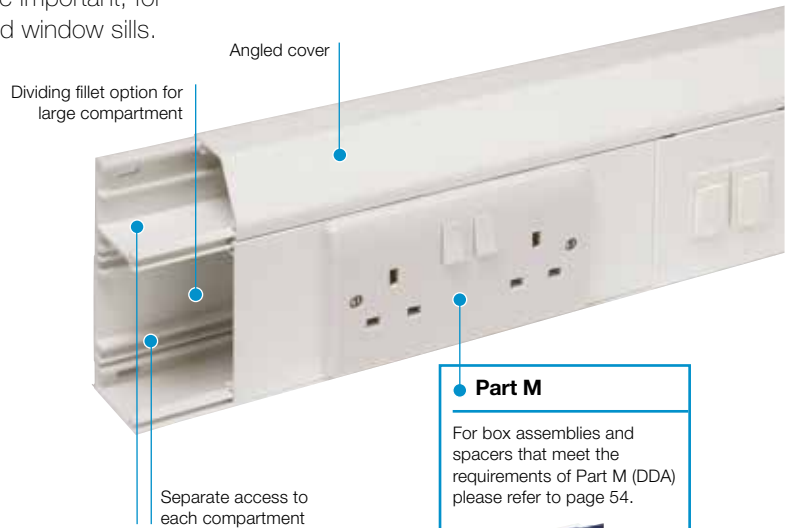
'Bio option' available to special order

Product information

- 130 x 50mm
- 1 full and 1 half size compartment
- For dado installation
- Can be subdivided
- Self extinguishing and non-flame propagating PVC-U

Data information

- Compliant up to Cat 7a
- Standard bend radius 25mm
- Data fittings available for bend radius up to 50mm
- Compact 1 and 2 small compartment can be screened to assist against EMI with no reduction in cable capacity
- Adjustable data box 32-40mm
- Screened data boxes
- Steel screening divider available to BS EN 50714-2



Part M

For box assemblies and spacers that meet the requirements of Part M (DDA) please refer to page 54.

Standard Colour
WH
WH: White

See page 65 for quick reference chart

Basic components



Base unit

code	description	pack
ETB2WH		4 x 3m



Main compartment cover

code	description	pack
ETL1WH		8 x 3m



Angled cover

code	description	pack
ETAC1WH		8 x 3m

REASSURINGLY RECYCLED

OUR COMPACT 1 TRUNKING BUILT UP PROFILE IS MANUFACTURED USING 37% RECYCLED MATERIAL. WE ARE WORKING TO INCREASE THE LEVEL OF RECYCLED MATERIAL USED IN THIS RANGE.

Fittings



Compact 1 Couplers

code	description	pack
ECC1WH	2 piece	5



Compact 1 End caps LH & RH

code	description	pack
EECC1LHWH	2 piece	5
EECC1RHWH	2 piece	5



Compact 1 Internal bend

code	description	pack
EIBC1WH	2 piece	5



Compact 1 Internal bend assembly

code	description	pack
ELIBCD1WH	assemblies	1



Compact 1 External bend

code	description	pack
EXBC1WH	2 piece	5



Compact 1 Flat angle upward

code	description	pack
EFAC1UWH		1



Compact 1 Flat angle downward

code	description	pack
EFAC1DWH		1

Compact 1 flat tees

Compact 1 flat tees are handed to the left or to the right side. For the product you require, please order the following:

Left upward = EFTC1ULWH
 Left downward = EFTC1DLWH
 Right upward = EFTC1URWH
 Right downward = EFTC1DRWH

For further advice please call the Technical Team on +44 (0)1424 856688.

PVC-U PERIMETER TRUNKING SYSTEMS

Fittings



Angled mini trunking adaptor MMT2

code	pack
EATA2WH	5



Angled mini trunking adaptor MMT4

code	pack
EATA4WH	5

Allows the transfer of cables from Compact 1 to Marshall-Tufflex Mini Trunking

Components



Dividing fillet

code	pack
EDF1	8 x 3m



Steel screening divider

code	pack
ESF1	1 x 1.5m

Note: optional steel screening divider to assist in compliance with BS EN 50174-2



Steel screening divider bonding strap

code	pack
ESF2	5



Bonding strap

code	pack
ESBS1	5



Main crossover bridge

code	pack
EMCB1	5

Provides segregation of services crossing from one compartment to another



Angled cable retainer

code	pack
EACR1	10

Provides cable retention in the upper angled or square compartment.



Main cable retainer

code	pack
EMCR1	10

The recommended cable retainer for all compartments which use the ETL1WH lid.

Boxes and plates



***RCD/MCB housing**

code	pack
EAHC1MWH	1

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex



1 gang accessory box

code	depth	pack
ESSB1WH	30mm	20



2 gang accessory box

code	depth	pack
ESSB2WH	30mm	10



Accessory box spacer

code	size	pack
ES1WH	14mm	4

For use between accessory boxes



1 gang adjustable depth box

code	depth	pack
EAB1WH	32 – 47mm	10



2 gang adjustable depth box

code	depth	pack
EAB2WH	32 – 47mm	5



1 gang accessory plate

code	pack
ESSP1WH	2



2 gang accessory plate

code	pack
ESSP2WH	2

Please see page 261 for more information on the range of adjustable boxes

Part M

For boxes that meet the requirements of Part M (DDA) please refer to page 54.

COMPACT 2 TRUNKING

Compact 2 is a small, fully segregated two compartment trunking system with a square top profile. This trunking is suited to fit within areas where physical outside dimensions are important, for example, to negotiate above or below radiators and window sills.

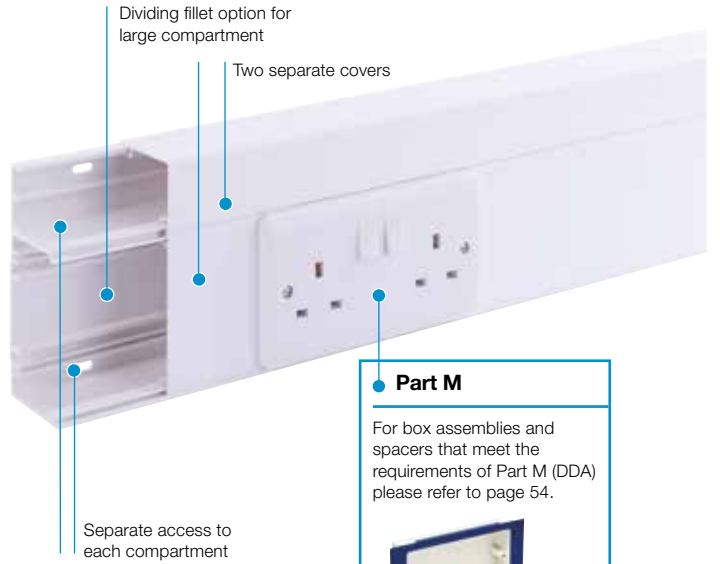


Product information

- 130 x 50mm
- One full size compartment and one half size
- For dado and skirting installation
- **Note:** where Compact 2 is fitted at skirting level, it is recommended that the larger compartment is installed at the top.
- Can be subdivided
- Self extinguishing and non-flame propagating PVC-U

Data information

- Compliant up to Cat 7a
- Standard bend radius 25mm
- Data fittings available for bend radius up to 50mm
- Compact 1 and 2 small compartment can be screened to assist against EMI with no reduction in cable capacity
- Adjustable data box 32-40mm
- Screened data boxes
- Steel screening divider available to BS EN 50714-2



Part M
For box assemblies and spacers that meet the requirements of Part M (DDA) please refer to page 54.

Standard Colour
WH
WH: White

See page 65 for quick reference chart

Basic components

Base unit	Main compartment cover	Square cover
code pack	code pack	code pack
ETB2WH 4 x 3m	ETL1WH 8 x 3m	ETSC1WH 8 x 3m

REASSURINGLY RECYCLED
OUR COMPACT 2 TRUNKING BUILT UP PROFILE IS MANUFACTURED USING 35% RECYCLED MATERIAL. WE ARE WORKING TO INCREASE THE LEVEL OF RECYCLED MATERIAL USED IN THIS RANGE.

Fittings

Compact 2 Couplers	Compact 2 End caps LH & RH	Compact 2 Internal bend	Compact 2 Internal bend assembly and cover only
code description pack	code description pack	code description pack	code description pack
ECC2WH 2 piece 5	EECC2LHWH 2 piece 5 EECC2RHWH 2 piece 5	EIBC2WH 2 piece 5	ELIBCD2WH assemblies 1
Compact 2 External bend	Compact 2 Flat angle - upward	Compact 2 Flat angle - downward	
code description pack	code pack	code pack	
EXBC2WH 2 piece 5	EFAC2UWH 1	EFAC2DWH 1	

Compact 2 flat tees
Compact 2 flat tees are handed to the left or to the right side. For the product you require, please order the following:
Left upward = EFTC2ULWH
Left downward = EFTC2DLWH
Right upward = EFTC2URWH
Right downward = EFTC2DRWH
For further advice please call the Technical Team on +44 (0)1424 856688.

PVC-U PERIMETER TRUNKING SYSTEMS

Fittings



Square mini trunking adapter

code	size	pack
ESTA2WH	MMT2	5



Square mini trunking adapter

code	size	pack
ESTA4WH	MMT4	5

Allows the transfer of cables from Compact 2 to Marshall-Tufflex Mini Trunking

Components



Dividing fillet

code	pack
EDF1	8 x 3m



Steel screening divider

code	pack
ESF1	1 x 1.5m

Note: optional steel screening divider to assist in compliance with BS EN 50174-2



Steel screening divider bonding strap

code	pack
ESF2	5



Bonding strap

code	pack
ESBS1	5



Main crossover bridge

code	pack
EMCB1	5

Provides segregation of services crossing from one compartment to another



Main cable retainer

code	pack
EMCR1	10

The recommended cable retainer for all compartments which use the ETL1WH lid

Boxes and plates



*RCD/MCB housing

code	pack
EAHC1MWH	1

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex



1 gang accessory box

code	depth	pack
ESSB1WH	30mm	20



2 gang accessory box

code	depth	pack
ESSB2WH	30mm	10



Accessory box spacer

code	size	pack
ES1WH	14mm	4

For use between accessory boxes



1 gang adjustable depth box

code	depth	pack
EAB1WH	32 – 47mm	10



2 gang adjustable depth box

code	depth	pack
EAB2WH	32 – 47mm	5



1 gang accessory plate

code	pack
ESSP1WH	2



2 gang accessory plate

code	pack
ESSP2WH	2

Please see page 261 for more information on the range of adjustable boxes

Part M

For boxes that meet the requirements of Part M (DDA) please refer to page 54.

COMPACT 3 TRUNKING

Compact 3 is a fully segregated trunking system with two main compartments suited for installations requiring larger cable capacity.



Product information

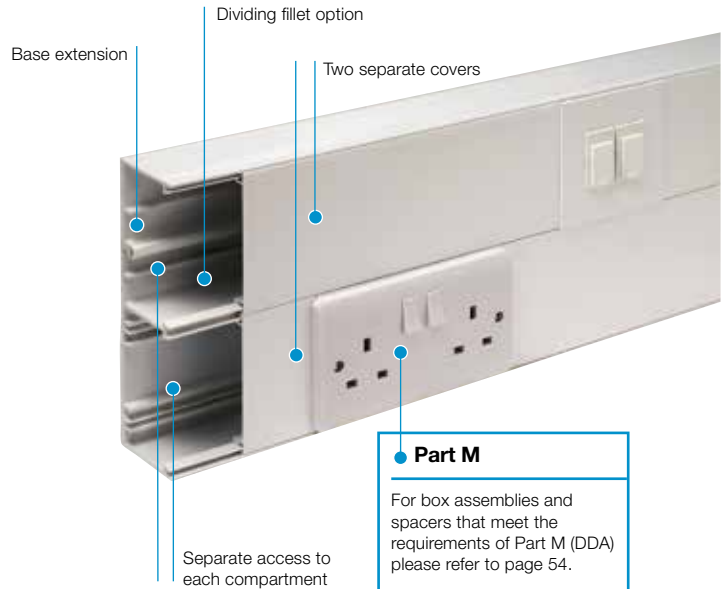
- 181 x 50mm
- 2 full size compartments
- For dado and skirting installation
- Can be subdivided
- Self extinguishing and non-flame propagating PVC-U

Data information

- Compliant up to Cat 7a
- Standard bend radius 25mm
- Data fittings available for bend radius up to 50mm
- Adjustable data box 32-40mm
- Screened data boxes
- Steel screening divider available to BS EN 50714-2

Standard Colour
WH
WH: White

See page 65 for quick reference chart



Part M
For box assemblies and spacers that meet the requirements of Part M (DDA) please refer to page 54.

Basic components



Base unit		
code	description	pack
ETB2WH		4 x 3m



Main compartment cover		
code	description	pack
ETL1WH		8 x 3m



Base extension		
code	description	pack
EBE1WH		4 x 3m

REASSURINGLY RECYCLED
OUR COMPACT 3 TRUNKING BUILT UP PROFILE IS MANUFACTURED USING 37% RECYCLED MATERIAL. WE ARE WORKING TO INCREASE THE LEVEL OF RECYCLED MATERIAL USED IN THIS RANGE.

Fittings



Compact 3 Coupler		
code	description	pack
ECC3WH	2 piece	5



Compact 3 End caps LH & RH		
code	description	pack
EECC3LHWH	2 piece	5
EECC3RHWH	2 piece	5



Compact 3 Internal bend		
code	description	pack
EIBC3WH	2 piece	5



Compact 3 Internal bend assembly and cover only		
code	description	pack
ELIBCD3WH	assemblies	1



Compact 3 External bend		
code	description	pack
EXBC3WH	2 piece	5



Compact 3 Flat angle		
code	description	pack
EFAC3WH		1



Compact 3 Flat tee		
code	description	pack
EFTC3WH		1

Components



Dividing fillet		
code	pack	
EDF1	8 x 3m	



Steel screening divider		
code	pack	
ESF1	1 x 1.5m	

Note: optional steel screening divider to assist in compliance with BS EN 50174-2



Steel screening divider bonding strap		
code	pack	
ESF2	5	



Bonding strap		
code	pack	
ESBS1	5	



Main crossover bridge		
code	pack	
EMCB1	5	

Provides segregation of services crossing from one compartment to another



Main cable retainer		
code	pack	
EMCR1	10	

The recommended cable retainer for all compartments which use the ETL1WH lid

Boxes and plates



*RCD/MCB Housing		
code	pack	
EAHC1MWH	1	

*Up to 4 modules can be accommodated
Note: RCDs are not supplied by Marshall-Tufflex



1 gang accessory box		
code	depth	pack
ESSB1WH	30mm	20



2 gang accessory box		
code	depth	pack
ESSB2WH	30mm	10

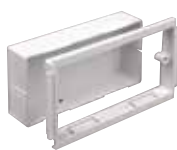


Accessory box spacer		
code	size	pack
ES1WH	14mm	4

For use between accessory boxes



1 gang adjustable depth box		
code	depth	pack
EAB1WH	32 – 47mm	10



2 gang adjustable depth box		
code	depth	pack
EAB2WH	32 – 47mm	5



1 gang accessory plate		
code	pack	
ESSP1WH	2	



2 gang accessory plate		
code	pack	
ESSP2WH	2	

Please see page 261 for more information on the range of adjustable boxes

Part M













For boxes that meet the requirements of Part M (DDA) please refer to page 54.

Quick reference chart
Compact trunking

2 compartment

Compact 1 130 x 50mm	Compact 2 130 x 50mm	Compact 3 181 x 50mm
-------------------------	-------------------------	-------------------------



Base unit Pack 4 x 3m		ETB2WH	ETB2WH	ETB2WH
Base extension Pack 4 x 3m		-	-	EBE1WH
Main compartment cover Pack 8 x 3m		ETL1WH	ETL1WH	2 x ETL1WH
Angled cover Pack 8 x 3m		ETAC1WH	-	-
Square cover Pack 8 x 3m		-	ETSC1WH	-
Couplers Pack 5		ECC1WH	ECC2WH	ECC3WH
End caps Pack 5		EECC1LHWH EECC1RHWH	EECC2LHWH EECC2RHWH	EECC3LHWH EECC3RHWH
Internal bends Pack 5		EIBC1WH	EIBC2WH	EIBC3WH
Internal bend – cover only Pack 1		EIBCD1WH	EIBCD2WH	EIBCD3WH
External bends Pack 5		EXBC1WH	EXBC2WH	EXBC3WH
Flat angles – up or down Pack 1		EFAC1UWH EFAC1DWH	EFAC2UWH EFAC2DWH	EFAC3WH
Flat tees – up or down Pack 1 Left or right handed Upward or downward		EFTC1ULWH EFTC1URWH EFTC1DLWH EFTC1DRWH	EFTC2ULWH EFTC2URWH EFTC2DLWH EFTC2DRWH	EFTC3WH

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Technical Information

TWIN165 TRUNKING



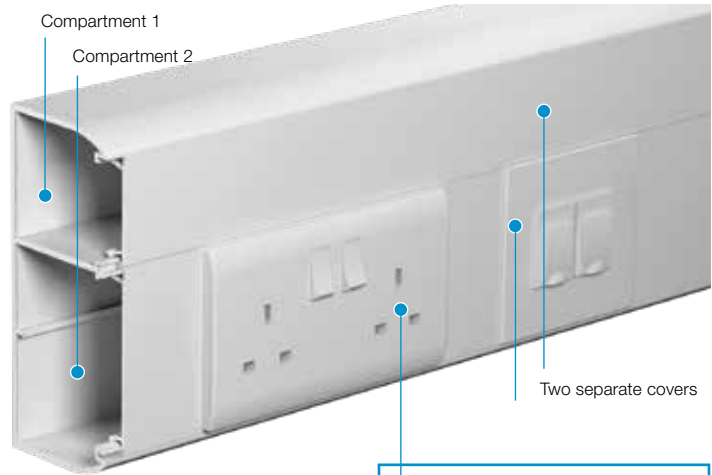
Twin165 trunking is a mid-size, two-compartment system, designed as a compact variation of Twin Plus. Twin165 offers high capacity for up to Cat 7a data cabling for specification in commercial, industrial and educational environments.

Product information

- 160 x 65mm
- 2 compartment trunking with 60/40 split
- Separate cover access to each compartment
- Suitable for dado application
- Adjustable bends allow between 85° and 95° to accommodate building tolerances
- Self extinguishing and non-flame propagating PVC-U
- Fire clips available to secure cables within trunking and prevent premature collapse in the event of a fire

Data information

- Compliant up to Cat 7a
- Standard bend radius 25mm
- Data fittings available for bend radius up to 50mm
- Adjustable data box 32-47mm
- Steel screening divider available to BS EN 50714-2



Standard Colour
WH
WH: White

REASSURINGLY RECYCLED
 OUR TWIN165 TRUNKING BUILT UP PROFILE IS MANUFACTURED USING 78% RECYCLED MATERIAL.

Part M

For box assemblies and spacers that meet the requirements of Part M (DDA) please refer to page 54.

PVC-U PERIMETER TRUNKING SYSTEMS

Basic components

Base unit	Cover small (Comp 1)	Cover large (Comp 2)
code pack	code pack	code pack
AY1120WH 4 x 3m	AY1130WH 8 x 3m	ETL1WH 8 x 3m

Twin165 fittings

Compartment 1 is the smaller compartment.

Compartment 2 is the larger compartment.

When ordering end caps, flat angles and tees, please take care to ascertain which compartment is to be installed uppermost to ensure you receive the correct fittings.

Fittings (ABS)

Coupler	End cap LH (Comp 1 top)	End cap RH (Comp 1 top)	End cap LH (Comp 2 top)	Internal bend adjustable
code pack	code pack	code pack	code pack	code pack
AY1210WH 1	AY1220WH 1	AY1230WH 1	AY1240WH 1	

External bend adjustable
code pack
AY1250WH 1

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Technical Information

Fittings



Flat angle up (comp 1 top)
Flat angle down (comp 2 top)
 code pack
AY1310WH 1



Flat angle down (comp 1 top)
Flat angle up (comp 2 top)
 code pack
AY1320WH 1



Flat tee up (comp 1 top)
Flat tee down (comp 2 top)
 code pack
AY1330WH 1



Flat tee down (comp 1 top)
Flat tee up (comp 2 top)
 code pack
AY1350WH 1

Components



Steel screening divider
 code pack
ESF200 1 x 1.5m

Note: optional steel screening divider to assist in compliance with BS EN 50174-2



Steel screening divider bonding strap
 code pack
ESF2 5



Bonding strap
 code pack
ESBS1 5

Firefly clips



NEW

Fire clip Twin165 large compartment
 code pack
FCT165L 50



NEW

Fire clip Twin165 small compartment
 code pack
FCT165S 100



NEW

Don't forget, Firefly clips to comply with the current edition of BS 7671 Wiring Regulations
 See page 141 for more information

Boxes and plates



***RCD/MCD housing**
 code pack
EAHC1MWH 1

*Up to 4 modules can be accommodated
Note: RCDs are not supplied by Marshall-Tufflex



1 gang accessory box
 code depth pack
ESSB1WH 30mm 20



2 gang accessory box
 code depth pack
ESSB2WH 30mm 10

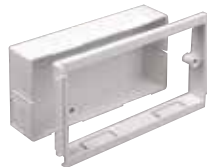


Accessory box spacer
 code size pack
ES1WH 14mm 4

For use between accessory boxes



1 gang adjustable depth box
 code depth pack
EAB1WH 32 – 47mm 10



2 gang adjustable depth box
 code depth pack
EAB2WH 32 – 47mm 5



1 gang accessory plate
 code pack
ESSP1WH 2



2 gang accessory plate
 code pack
ESSP2WH 2

Please see page 261 for more information on the range of adjustable boxes

Part M

For assemblies and spacers that meet the requirements of Part M (DDA) please refer to page 54.



STERLING PROFILE 1, 2 AND 3

Sterling Profile systems 1 to 3 are popular and stylish looking perimeter dado and skirting systems that are easy and cost effective to use. A firm favourite for many years due to its versatility, range of fittings and accessories and suitability for many different cable management installation needs.

Product information

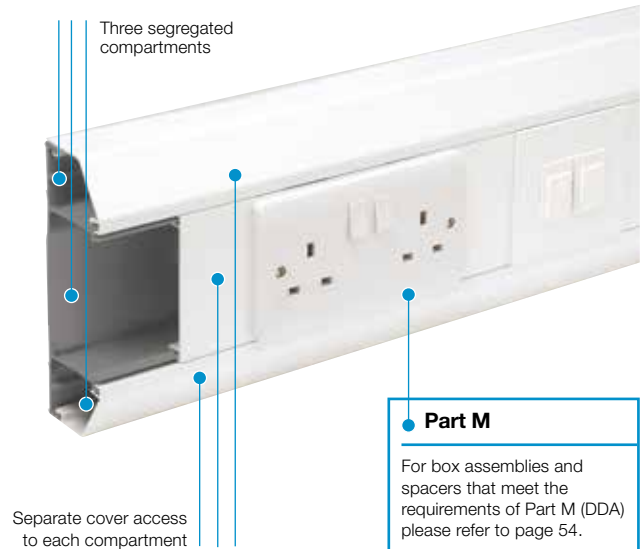
- 167 x 50mm
- 3 segregated compartments
- Suitable for dado and skirting application
- Can be fed from larger trunking systems for increased cable distribution
- Boxes available to comply with Part M (DDA)
- Comprehensive range of flush power and data accessories
- Moulded fittings with Profile 1 and Profile 2
- Self extinguishing and non-flame propagating PVC-U
- Fire clips available to secure cables within trunking and prevent premature collapse in the event of a fire

Data information

- Compliant up to Cat 7a
- Standard bend radius 25mm
- Data fittings available for bend radius up to 50mm
- Compartment can be screened to assist against EMI with no reduction in cable capacity (refer to p103)
- Adjustable data box 32-40mm
- Screened data boxes
- Steel screening divider available to BS EN 50714-2



'Bio option' available to special order



Part M

For box assemblies and spacers that meet the requirements of Part M (DDA) please refer to page 54.

PVC-U PERIMETER TRUNKING SYSTEMS

Standard Colours	
WH	CH
WH: White CH: Charcoal	

Colour options: Charcoal solid colour option is available as standard item for selected Profile 1 fittings. Please indicate when ordering by replacing the WH colour code suffix with CH for charcoal.

See page 73 for quick reference chart

Trunking profiles



Sterling Profile 1 trunking assembly

code	size	pack
EP1MWH	167 x 50mm	1 x 3m

Charcoal is available as standard for Profile 1



Sterling Profile 2 trunking assembly

code	size	pack
EP2MWH	167 x 50mm	1 x 3m



Sterling Profile 3 trunking assembly

code	size	pack
EP3MWH	167 x 50mm	1 x 3m

Basic components



Base unit

code	pack
ETB1M	4 x 3m

Please note the colour of the unseen base ETB1M may vary



Main compartment cover

code	pack
ETL1WH	8 x 3m

Charcoal is available as standard



Angled cover

code	pack
ETAC1WH	8 x 3m

Charcoal is available as standard



Square cover

code	pack
ETSC1WH	8 x 3m

REASSURINGLY RECYCLED

OUR WHITE STERLING BUILT UP PROFILES ARE MANUFACTURED USING THE FOLLOWING PERCENTAGES OF RECYCLED MATERIAL.

PROFILE 1 62%
PROFILE 2 57%
PROFILE 3 54%

p248 Technical Information

Profile 1 fittings



Profile 1 Coupler

code	description	pack
ECP1MWH	1 piece	2

Charcoal is available as standard



Profile 1 End cap

code	description	pack
EACP1MWH	1 piece	2

Universal for both LH & RH
Charcoal is available as standard



Profile 1 Internal bend

code	description	pack
EIBP1MWH	1 piece	2

Charcoal is available as standard



Profile 1 Internal bend cover

code	description	pack
EIBD1WH		1



Profile 1 Internal bend assembly

code	description	pack
ELIBD1WH		1

Charcoal is available as standard



Profile 1 External bend

code	description	pack
EXBP1MWH	1 piece	2

Charcoal is available as standard



Profile 1 Flat angle - up/down cover (ABS)

code	description	pack
EFA1MWH		1

Charcoal is available as standard



With integral bend radius control

Profile 1 Flat angle - up/down complete (ABS)

code	description	pack
EFA1MBWH		1

Charcoal is available as standard



Profile 1 Flat tee cover (ABS)

code	description	pack
EFT1MWH		1

Charcoal is available as standard



With integral bend radius control

Profile 1 Flat tee complete (ABS)

code	description	pack
EFT1MBWH		1

Charcoal is available as standard

Profile 2 fittings



Profile 2 Coupler

code	description	pack
ECP2MWH	1 piece	2



Profile 2 End cap

code	description	pack
EACP2MLHWH	(left) 1 piece	2
EACP2MRHWH	(right) 1 piece	2



Profile 2 Internal bend

code	description	pack
EIBP2MWH	1 piece	2



Profile 2 Internal bend cover

code	description	pack
EIBD2WH		1



Profile 2 Internal bend assembly

code	description	pack
ELIBD2WH		1

Charcoal is available as standard



Profile 2 External bend

code	description	pack
EXBP2MWH	1 piece	2

Charcoal is available as standard



Profile 2 Flat angle - upward

code	description	pack
EFA2UWH		1

Charcoal is available as standard



Profile 2 Flat angle - downward

code	description	pack
EFA2DWH		1

Charcoal is available as standard

Profile 3 fittings



Profile 3 Coupler

code	description	pack
ECP3WH	3 piece	2
ECHP3WH	1 piece	2



Profile 3 End cap

code	description	pack
EECP3WH	3 piece	2
EECHP3WH	1 piece	2

Universal for both LH & RH



Profile 3 Internal bend

code	description	pack
EIBP3WH	3 piece	2
EIBHP3WH	1 piece	2



Profile 3 Internal bend cover

code	pack
EIBD3WH	1



Profile 3 Internal bend assembly

code	pack
ELIBD3WH	1



Profile 3 External bend

code	description	pack
EXBP3WH	3 piece	2
EXBHP3WH	1 piece	2



Profile 3 Flat angle

code	pack
EFA3WH	1



Profile 3 Flat tee

code	pack
EFT3WH	1

Fittings



Angled mini trunking adaptor MMT2

code	pack
EATA2WH	5



Angled mini trunking adaptor MMT4

code	pack
EATA4WH	5



Square mini trunking adaptor MMT2

code	pack
ESTA2WH	5



Square mini trunking adaptor MMT4

code	pack
ESTA4WH	5

Firefly clips



NEW

Fire clip Sterling centre compartment

code	pack
FCSPC	50



NEW

Fire clip Sterling angle & curve compartment

code	pack
FCSPAC	100



NEW

Fire clip Sterling square compartment

code	pack
FCSPS	100



NEW

Don't forget, Firefly clips to comply with the current edition of BS 7671 Wiring Regulations

See page 141 for more information

Components



Main crossover bridge

code	pack
EMCB1	5



Angled cable retainer

code	pack
EACR1	10

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Technical Information

Boxes and plates



*RCD/MCB Housing		
code		pack
EAHC1MWH		1

Not available in charcoal
 *Up to 4 modules can be accommodated
 Note: RCDs are not supplied by Marshall-Tufflex



1 gang accessory box		
code	depth	pack
ESSB1WH	30mm	20

ESSB1 and ESSB2 are also available from stock in charcoal.



2 gang accessory box		
code	depth	pack
ESSB2WH	30mm	10

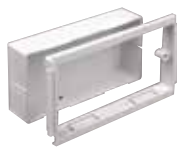


Accessory box spacer		
code	size	pack
ES1WH	14mm	4

For use between accessory boxes



1 gang adjustable depth box		
code	depth	pack
EAB1WH	32 – 47mm	10



2 gang adjustable depth box		
code	depth	pack
EAB2WH	32 – 47mm	5

Please see page 261 for more information on the range of adjustable boxes



1 gang accessory plate	
code	pack
ESSP1WH	2



2 gang accessory plate	
code	pack
ESSP2WH	2

Part M

For boxes that meet the requirements of Part M (DDA) please refer to page 54.



Screening



Steel screening divider	
code	pack
ESF1	1 x 1.5m

Note: optional steel screening divider to assist in compliance with BS EN 50174-2



Steel screening divider bonding strap	
code	pack
ESF2	5



Bonding strap	
code	pack
ESBS1	5



Screened base unit (comp 1 & 3)	
code	pack
ETB1MCS13	1 x 3m



Screened angled cover	
code	pack
ETAC1CSWH	1 x 3m

(2 angled covers needed)



1 gang screened accessory box		
code	depth	pack
ESSB1SWH	30mm	20



2 gang screened accessory box		
code	depth	pack
ESSB2SWH	30mm	10

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to assist in screening from electromagnetic interference to data and communications cabling within trunking systems. The coating is applied to a range of data boxes, covers, clip-on components and fabricated fittings.

WARNING: A CS coating is not suitable for low voltage circuits. As per the current version of BS 7671 wiring regulations. For data/voice use only.

Screened compartments key to coding

CS13 = screening in compartments 1 and 3

Gascoigne Primary School

Sterling Profile 1

Sterling Profile 1 dado system has been used extensively in the expansion of Gascoigne Primary School, Barking, Essex, the largest primary school in the UK.

The most recent development of the school is an £11m project providing a new three-storey facility to accommodate 1,500 pupils. To power this large and complex building, considerable electrical wiring was required. Sterling Profile 1 system in white was used with a charcoal main compartment cover, a versatile, cost-effective, and high-quality trunking that has a proven track-record of meeting the demands of school environments.

“One of the key factors in our decision was Sterling’s versatility – it can be used at a 90° bend, allowing installers to easily fit it in the new school without too much doctoring. Supply chain was also very important – we used hundreds of metres at Gascoigne, with the three compartment trunking in every single room apart from the kitchen and main hall. Being the largest school in the UK this is a significant project and Sterling has more than stood up to the challenge. We have tried competitor products in the past but Marshall-Tufflex can’t be beaten on quality or price.”



QUALITY REASSURANCE

PVC-U trunking made from recycled windows is more robust than product made from virgin grade material.



**REASSURINGLY
RECYCLED**

Quick reference chart
Sterling Profile 1, 2 and 3

			3 compartment		
			Profile 1	Profile 2	Profile 3
			167 x 50mm	167 x 50mm	167 x 50mm
					
Base unit					
Pack	4 x 3m		ETB1M	ETB1M	ETB1M
Main compartment cover					
Pack	8 x 3m		ETL1WH	ETL1WH	ETL1WH
Angled cover					
Pack	8 x 3m		2 x ETAC1WH	ETAC1WH	–
Square cover					
Pack	8 x 3m		–	ETSC1WH	2 x ETSC1WH
Couplers					
Pack	2		ECP1MWH	ECP2MWH	ECP3WH or ECHP3WH
End caps					
Pack	2		EECP1MWH	EECP2MRHWH EECP2MLHWH	EECP3WH or EECHP3WH
Internal bend					
Pack	2		EIBP1MWH	EIBP2MWH	EIBP3WH or EIBHP3WH
Internal bend assemblies					
Pack	1		ELIBD1WH	ELIBD2WH	ELIBD3WH
Internal bend covers only					
Pack	1		EIBD1WH	EIBD2WH	EIBD3WH
External bends					
Pack	2		EXBP1MWH	EXBP2MWH	EXBP3WH or EXBHP3WH
Flat angles up or down					
Pack	1		EFA1MWH or EFA1MBWH	EFA2UWH EFA2DWH	EFA3WH
Flat tees up or down					
Pack	1		EFT1MWH or EFT1MBWH	EFT2UWH †	EFT3WH

Note: Profile 2 and 3 flat angles and tees are fabricated

† Sterling Profile 2 flat tees
Sterling Profile 2 flat tees use an angled cover for the upwards cover and tee.

STERLING PROFILE 4

Sterling Profile system 4 is an extendable perimeter skirting trunking system that provides increased cable capacity with large multi compartments that can be subdivided to carry a greater range of services.



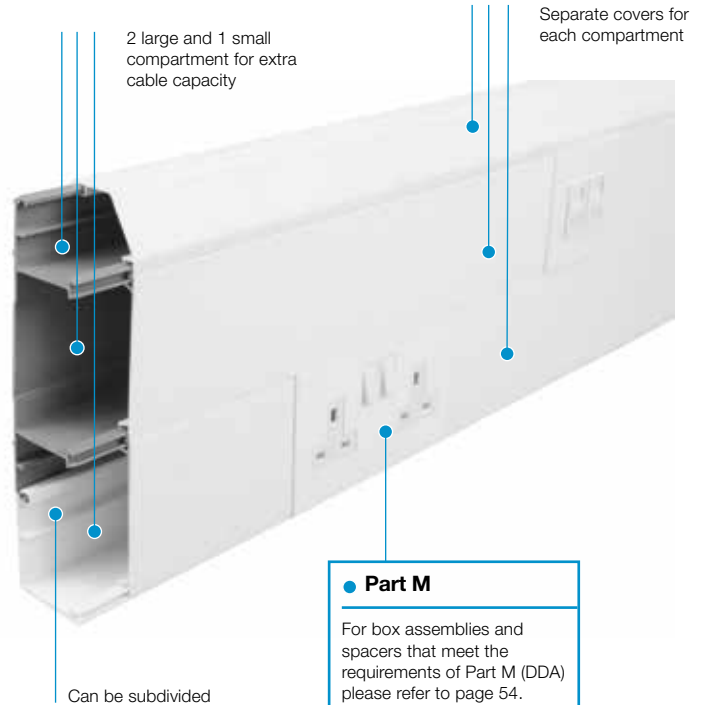
'Bio option' available to special order

Product information

- 218 x 50mm
- 2 large and 1 small compartment
- Can be subdivided
- Suitable for dado and skirting application
- Can be fed from larger trunking systems for increased cable distribution
- Boxes available to comply with Part M (DDA)
- Comprehensive range of flush power and data accessories
- Improved design to base unit to give greater cable capacity
- Self extinguishing and non-flame propagating PVC-U

Data information

- Compliant up to Cat 7a
- Standard bend radius 25mm
- Data fittings available for bend radius up to 50mm
- Adjustable data box 32-40mm
- Screened data boxes
- Steel screening divider available to BS EN 50714-2



Standard Colour
WH
WH: White

Part M

For box assemblies and spacers that meet the requirements of Part M (DDA) please refer to page 54.

REASSURINGLY RECYCLED

OUR STERLING PROFILE 4 BUILT UP PROFILE IS MANUFACTURED USING 74% RECYCLED MATERIAL.

PVC-U PERIMETER TRUNKING SYSTEMS

Trunking profiles



Sterling Profile 4

size
218 x 50mm

Basic components



Base unit

code	pack
ETB1M	4 x 3m



Base extension

code	pack
EBE1WH	4 x 3m



Main compartment cover

code	pack
ETL1WH	8 x 3m



Angled cover

code	pack
ETAC1WH	8 x 3m

Please note the colour of the unseen base ETB1M may vary

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Technical Information



Profile 4 Coupler

code	pack
ECP4WH	5



Profile 4 End cap

code	pack
EECP4LHWH	5
EECP4RHWH	5



Profile 4 Internal bend

code	pack
EIBP4WH	5



Profile 4 Internal bend cover

code	pack
EIBD4WH	1



Profile 4 Internal bend assemblies

code	pack
ELIBD4WH	1



Profile 4 External bend

code	pack
EXBP4WH	5



Profile 4 Flat angle - up

code	pack
EFA4UWH	1



Profile 4 Flat angle - down

code	pack
EFA4DWH	1



Angled mini trunking adaptor MMT2

code	pack
EATA2WH	5



Angled mini trunking adaptor MMT4

code	pack
EATA4WH	5

WE ARE DRIVING...

For all PVC-U products installed in buildings to be manufactured using 50% recycled material by 2028.



Components



Dividing fillet		
code	pack	
EDF1	8 x 3m	



Dividing tray		
code	pack	
EDF2	8 x 3m	



Steel screening divider		
code	pack	
ESF1	1 x 1.5m	



Steel screening divider bonding strap		
code	pack	
ESF2	5	

Note: optional steel screening divider to assist in compliance with BS EN 50174-2



Bonding strap		
code	pack	
ESBS1	5	



Main crossover bridge		
code	pack	
EMCB1	5	



Angled cable retainer		
code	pack	
EACR1	10	



Main cable retainer		
code	pack	
EMCR1	10	

Boxes and plates



*RCD/MCB Housing		
code	pack	
EAHC1MWH	1	

*Up to 4 modules can be accommodated
Note: RCDs are not supplied by Marshall-Tufflex



1 gang accessory box		
code	depth	pack
ESSB1WH	30mm	20



2 gang accessory box		
code	depth	pack
ESSB2WH	30mm	10

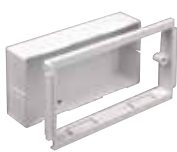


Accessory box spacer		
code	size	pack
ES1WH	14mm	4

For use between accessory boxes



1 gang adjustable depth box		
code	depth	pack
EAB1WH	32 – 47mm	10



2 gang adjustable depth box		
code	depth	pack
EAB2WH	32 – 47mm	5



1 gang accessory plate		
code	pack	
ESSP1WH	2	



2 gang accessory plate		
code	pack	
ESSP2WH	2	

Please see page 261 for more information on the range of adjustable boxes

Part M

For box assemblies and spacers that meet the requirements of Part M (DDA) please refer to page 54.



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Technical Information

STERLING CURVE

Sterling Curve Profile 1 and 2 are stylish curved perimeter dado and skirting systems that are easy and cost effective to use. Sterling Curve is a sleek data compliant medium sized trunking system with three segregated compartments. The adaptable system has 1 or 2 curved data compartments designed to stop clutter, avoid dust traps and to make cleaning easy.



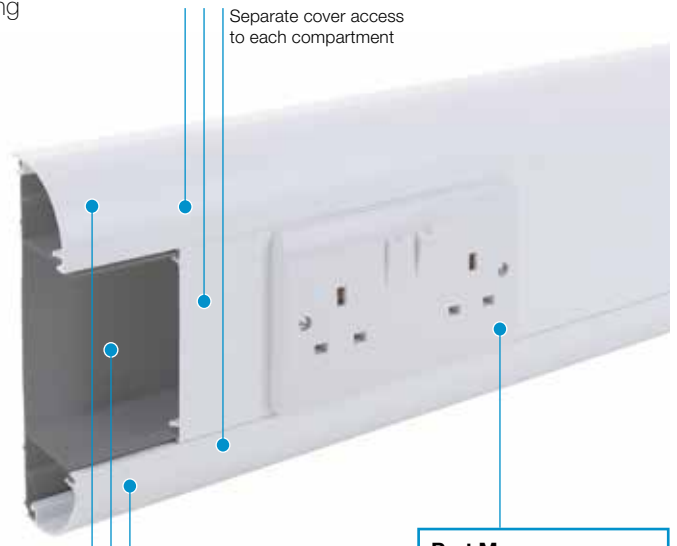
Product information

- 167 x 50mm
- 3 segregated compartments
- Suitable for dado and skirting application
- Boxes available to comply with Part M (DDA)
- Comprehensive range of flush power and data accessories
- Single piece moulded fittings
- Flat Tees and Flat Angles have integral bend radius control
- Profile 1 is available in charcoal as standard
- Self extinguishing and non-flame propagating PVC-U
- Fire clips available to secure cables within trunking and prevent premature collapse in the event of a fire

Data information

- Compliant up to Cat 7a
- Standard bend radius 25mm
- Data fittings available for bend radius up to 50mm
- Compartment can be screened to assist against EMI with no reduction in cable capacity (refer to p103)
- Adjustable data box 32-40mm
- Screened data boxes
- Steel screening divider available to BS EN 50714-2

See page 81 for quick reference chart



Part M

For box assemblies and spacers that meet the requirements of Part M (DDA) please refer to page 54.

Standard Colours	
WH	CH
WH: White CH: Charcoal	

Colour options: Charcoal solid colour option is available as standard item for selected Profile 1 fittings. Please indicate when ordering by replacing the WH colour code suffix with CH for charcoal.

Trunking profiles



Curve Profile 1 trunking assembly

code	size	pack
CEP1MWH	167 x 50mm	1 x 3m

Charcoal is available as standard for Profile 1



Curve Profile 2 trunking assembly

code	size	pack
CEP2MWH	167 x 50mm	1 x 3m

REASSURINGLY RECYCLED

OUR WHITE STERLING CURVE BUILT UP PROFILES ARE MANUFACTURED USING THE FOLLOWING PERCENTAGES OF RECYCLED MATERIAL.

PROFILE 1 66%
PROFILE 2 60%

Basic components



Base unit

code	pack
ETB1M	4 x 3m

Please note the colour of the unseen base ETB1M may vary



Main compartment cover

code	pack
ETL1WH	8 x 3m

Charcoal is available as standard



Curve cover

code	pack
CETC1WH	8 x 3m

Charcoal is available as standard



Square cover

code	pack
ETSC1WH	8 x 3m

Charcoal is available as standard

Firefly clips



NEW

Fire clip Sterling centre compartment

code	pack
FCSPC	50



NEW

Fire clip Sterling angle & curve compartment

code	pack
FCSPAC	100



NEW

Fire clip Sterling square compartment

code	pack
FCSPS	100

NEW

Don't forget, Firefly clips to comply with the current edition of BS 7671 Wiring Regulations

See page 141 for more information

Boxes and plates



***RCD/MCB Housing**

code	pack
EAHC1MWH	1

Not available in charcoal
*Up to 4 modules can be accommodated
Note: RCDs are not supplied by Marshall-Tufflex



1 gang accessory box

code	depth	pack
ESSB1WH	30mm	20



2 gang accessory box

code	depth	pack
ESSB2WH	30mm	10



Accessory box spacer

code	size	pack
ES1WH	14mm	4

For use between accessory boxes



1 gang adjustable depth box

code	depth	pack
EAB1WH	32 – 47mm	10



2 gang adjustable depth box

code	depth	pack
EAB2WH	32 – 47mm	5



1 gang accessory plate

code	pack
ESSP1WH	2



2 gang accessory plate

code	pack
ESSP2WH	2

Please see page 261 for more information on the range of adjustable boxes

Screening



Steel screening divider

code	pack
ESF1	1 x 1.5m

Note: optional steel screening divider to assist in compliance with BS EN 50174-2



Steel screening divider bonding strap

code	pack
ESF2	5



Bonding strap

code	pack
ESBS1	5



1 gang screened accessory box

code	depth	pack
ESSB1SWH	30mm	20



2 gang screened accessory box

code	depth	pack
ESSB2SWH	30mm	10

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to assist in screening from electromagnetic interference to data and communications cabling within trunking systems. The coating is applied to a range of data boxes, covers, clip-on components and fabricated fittings.

WARNING: A CS coating is not suitable for low voltage circuits. As per the current version of BS 7671 wiring regulations. For data/voice use only.

Screened compartments key to coding

CS13 = screening in compartments 1 and 3

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Technical Information

Curve Profile 1 fittings



Curve Profile 1 Coupler
 code pack
CECP1MWH 2
 Charcoal is available as standard



Curve Profile 1 End cap
 code pack
CEECP1MWH 2
 Charcoal is available as standard



Curve Profile 1 Internal bend
 code pack
CEIBP1MWH 2
 Charcoal is available as standard



Curve Profile 1 External bend
 code pack
CEXBP1MWH 2
 Charcoal is available as standard



Curve Profile 1 Flat angle cover (ABS)
 code pack
CEFA1MWH 1
 Charcoal is available as standard



Curve Profile 1 Flat angle complete (ABS)
 code pack
CEFA1MBWH 1
 Charcoal is available as standard



Curve Profile 1 Flat tee cover (ABS)
 code pack
CEFT1MWH 1



Curve Profile 1 Flat tee complete (ABS)
 code pack
CEFT1MBWH 1
 Charcoal is available as standard

Curve Profile 2 fittings



Curve Profile 2 Coupler
 code pack
CECP2MWH 2



Curve Profile 2 End cap
 code pack
CEECP2MRHWH (right) 2
CEECP2MLHWH (left) 2



Curve Profile 2 Internal bend
 code pack
CEIBP2MWH 2



Curve Profile 2 External bend
 code pack
CEXBP2MWH 2



Curve Profile 2 Flat angle up cover (ABS)
 code pack
CEFA2UMWH 1



Curve Profile 2 Flat angle up complete (ABS)
 code pack
CEFA2UMBWH 1



Curve Profile 2 Flat tee up cover (ABS)
 code pack
CEFT2MWH 1



Curve Profile 2 Flat tee up complete (ABS)
 code pack
CEFT2MBWH 1

Components



Main crossover bridge
 code pack
EMCB1 5

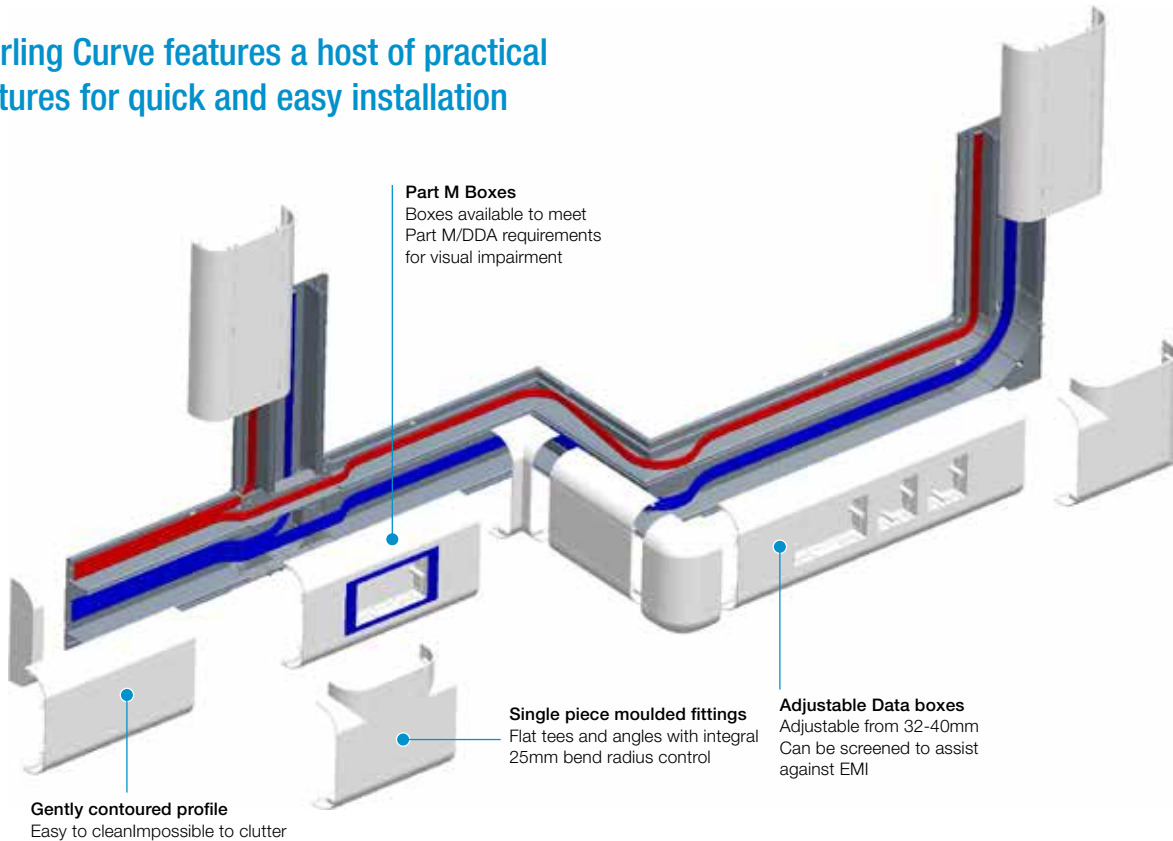


Angled cable retainer
 code pack
EACR1 10

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 Technical Information

Sterling Curve Trunking

Sterling Curve features a host of practical features for quick and easy installation



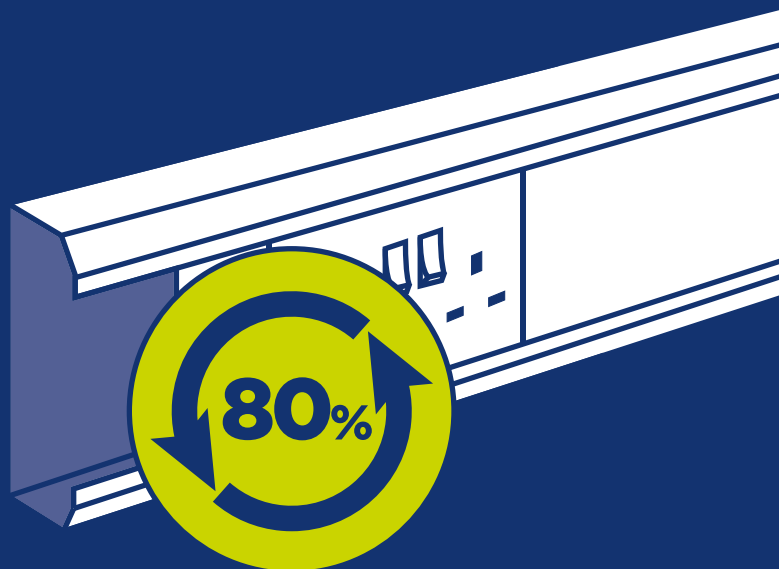
Part M Boxes
Boxes available to meet Part M/DDA requirements for visual impairment

Gently contoured profile
Easy to cleanImpossible to clutter

Single piece moulded fittings
Flat tees and angles with integral 25mm bend radius control

Adjustable Data boxes
Adjustable from 32-40mm Can be screened to assist against EMI

Our PVC-U products have been
**MANUFACTURED USING
80% RECYCLED MATERIAL.**



**REASSURINGLY
RECYCLED**

Quick reference chart
Sterling Curve

3 compartment

Profile 1
167 x 50mm

Profile 2
167 x 50mm



Base unit

Pack 4 x 3m



ETB1M

ETB1M

Main compartment cover

Pack 8 x 3m



ETL1WH

ETL1WH

Curve cover

Pack 8 x 3m



2 x CETC1WH

CETC1WH

Square cover

Pack 8 x 3m



-

ETSC1WH

Couplers

Pack 2



CECP1MWH

CECP2MWH

End caps

Pack 2



CEECP1MWH

CEECP2MRHWH
CEECP2MLHWH

Internal bend

Pack 2



CEIBP1MWH

CEIBP2MWH

External bends

Pack 2



CEXBP1MWH

CEXBP2MWH

Flat angle cover

Pack 1



CEFA1MWH

-

Flat angle complete

Pack 1



CEFA1MBWH

-

Flat angle up cover

Pack 1



-

CEFA2UMWH

Flat angle up complete

Pack 1



-

CEFA2UMBWH

Flat tee cover

Pack 1



CEFT1MWH

CEFT2MWH

Flat tee complete

Pack 1



CEFT1MBWH

CEFT2MBWH

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Technical Information



Sterling Curve Bio

Sterling Curve Profile 1 trunking is available as standard with Bio antimicrobial protection within the PVC-U material.

Sterling Curve Bio trunking component chart

Main compartment cover	Curve cover	Coupler	End cap	Internal bend	External bend	Flat angle	Flat tee	1 gang	2 gang	
						complete	complete	accessory box	accessory box	
 Sterling Curve Profile 1 167 x 50mm	ETL1BIOWH Pack 8 x 3m	CETC1BIOWH Pack 8 x 3m	CECP1MBIOWH Pack 2	CEECP1MBIOWH Pack 2	CEIBP1MBIOWH Pack 2	CXBP1MBIOWH Pack 2	CEFA1MBBIOWH Pack 1	CEFT1MBBIOWH Pack 1	ESSB1BIOWH Pack 20	ESSB2BIOWH Pack 10

PVC-U PERIMETER TRUNKING SYSTEMS

City College Plymouth in Devon

Sterling Curve Profile 1

Sterling Curve has been fitted throughout a new £13 million building at City College Plymouth in Devon.

Sterling Curve Profile 1 has been used as a dado trunking system to supply data to all teaching areas in this state-of-the-art facility, and contributes to the high spec finish. The Cat 7a compliant trunking is part of the popular and proven Sterling range. It is easy and cost effective to install and incorporates a 25mm bend radius that allows it to easily tackle corners.

“We used around 800m of white Sterling Curve in the build and it is a great product. I would use this system again based on the fact that it is good quality and easy to install when compared to its peers. In terms of value it also stood up on price.” Dan Rendell, Totus Engineering



“We have previously used Marshall-Tufflex products and found them to be of excellent quality. The STEM Centre is a wonderful building and we are really pleased with the finish.”

Martin Sings, City College Plymouth

ODYSSEY

Odyssey is a three-compartment trunking system with a completely curved front profile designed with tamper-resistant covers and fittings and flush accessories to enhance the finished appearance. Odyssey's curved profile is easy to clean and prohibits surface clutter.

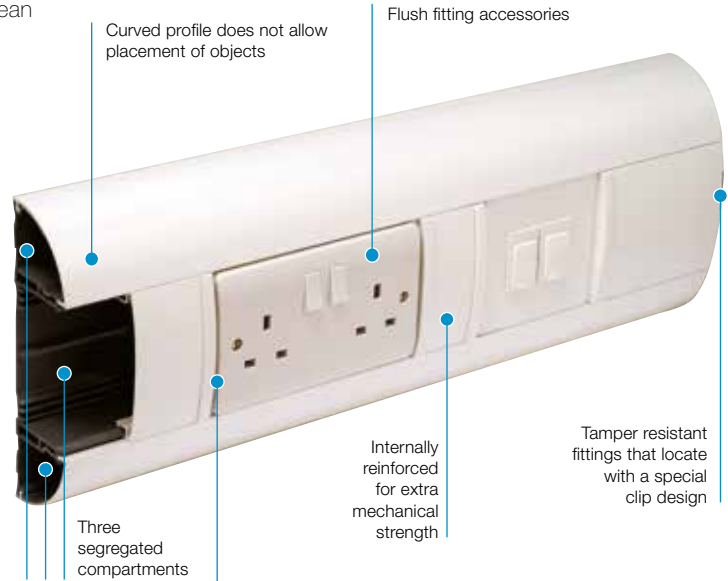


Product information

- 180 x 57mm
- 1 main compartment and 2 smaller outer compartments
- Can be subdivided by using EDF1 dividing fillet
- Suitable for dado application
- Available in antimicrobial Bio option (see page 85)
- Flush fitting accessories
- Tamper resistant covers and fittings
- Self extinguishing and non-flame propagating PVC-U
- Fire clips available to secure cables within trunking and prevent premature collapse in the event of a fire

Data information

- Compliant up to Cat 7a
- Standard bend radius 25mm
- Data fittings available for bend radius up to 65mm
- Steel screening divider available to BS EN 50714-2
- Adjustable data box 32-40mm
- Screened data boxes



Trunking profile



Trunking assembly (base and 3 covers)

code	size	pack
DD1WH	180 x 57mm	1 x 3m

Standard Colour
WH
WH: White

Part M

The Odyssey range includes unique coloured accessory boxes that meet the requirements of Part M (DDA) please refer to page 54.



REASSURINGLY RECYCLED
 OUR ODYSSEY TRUNKING BUILT UP PROFILE IS MANUFACTURED USING 63% RECYCLED MATERIAL.

Fittings (ABS)



Coupler

code	pack
DD1210WH	1



End cap

code	pack
DD1230WH	2



Internal bend

code	pack
DD1310WH	1



Internal bend adjustable

code	adjustable	pack
DD1330WH	85-95°	1



External bend

code	pack
DD1350WH	1



External bend adjustable

code	adjustable	pack
DD1370WH	85 - 95°	1



Flat angle up/down

code	pack
DD1410WH	1



Flat tee 3 part assembly - up/down

code	pack
DD1430WH	1

Fittings



MMT2 adaptor (ABS)

code	size	pack
DD1740WH	MMT2	1

Fabricated using PVC-U and ABS

***Box adaptors**

When installing adjustable boxes DD1540 and DD1550, a DD1590 adaptor should be used at either end of the box.

Where two or more adjustable boxes are being used in line, the spacer included is for use between boxes and a DD1590 adaptor is used at either end.

Boxes



RCD housing

code	pack
DD1580MWH	1

Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex



1 gang accessory box (ABS)

code	depth	pack
DD1510WH	30mm	20



2 gang accessory box (ABS)

code	depth	pack
DD1520WH	30mm	10



***1 gang adjustable depth box (ABS)**

code	depth	pack
*DD1540WH	32 – 40mm	10



***2 gang adjustable depth box (ABS)**

code	depth	pack
*DD1550WH	32 – 40mm	10



Accessory box adaptor (ABS)

code	pack
DD1590WH	1 pair

Each pack contains 2 adaptors



1 gang power and data mounting frame

code	pack
DD1560WH	2



2 gang power and data mounting frame

code	pack
DD1570WH	2

Part M

For boxes that meet the requirements of Part M (DDA) please refer to page 54.

Firefly clips



Fire clip Odyssey centre compartment

code	pack
FC0C	50



Fire clip Odyssey outer compartment

code	pack
FC00	100



Don't forget, Firefly clips to comply with the current edition of BS 7671 Wiring Regulations

See page 141 for more information

Screening



Steel screening divider

code	pack
DD1730	1 x 1.5m

Note: optional steel screening divider to assist in compliance with BS EN 50174-2



Steel screening divider bonding clip

code	pack
ESF3	5



Bonding strap

code	pack
DD1711	5



1 gang screened accessory box

code	pack
DD1511WH	1

Screening



2 gang screened accessory box

code	pack
DD1521WH	1

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to assist in screening from electromagnetic interference to data and communications cabling within trunking systems. The coating is applied to a range of data boxes, covers, clip-on components and fabricated fittings.

WARNING: A CS coating is not suitable for low voltage circuits. As per the current version of BS 7671 wiring regulations. For data/voice use only.

Odyssey Bio



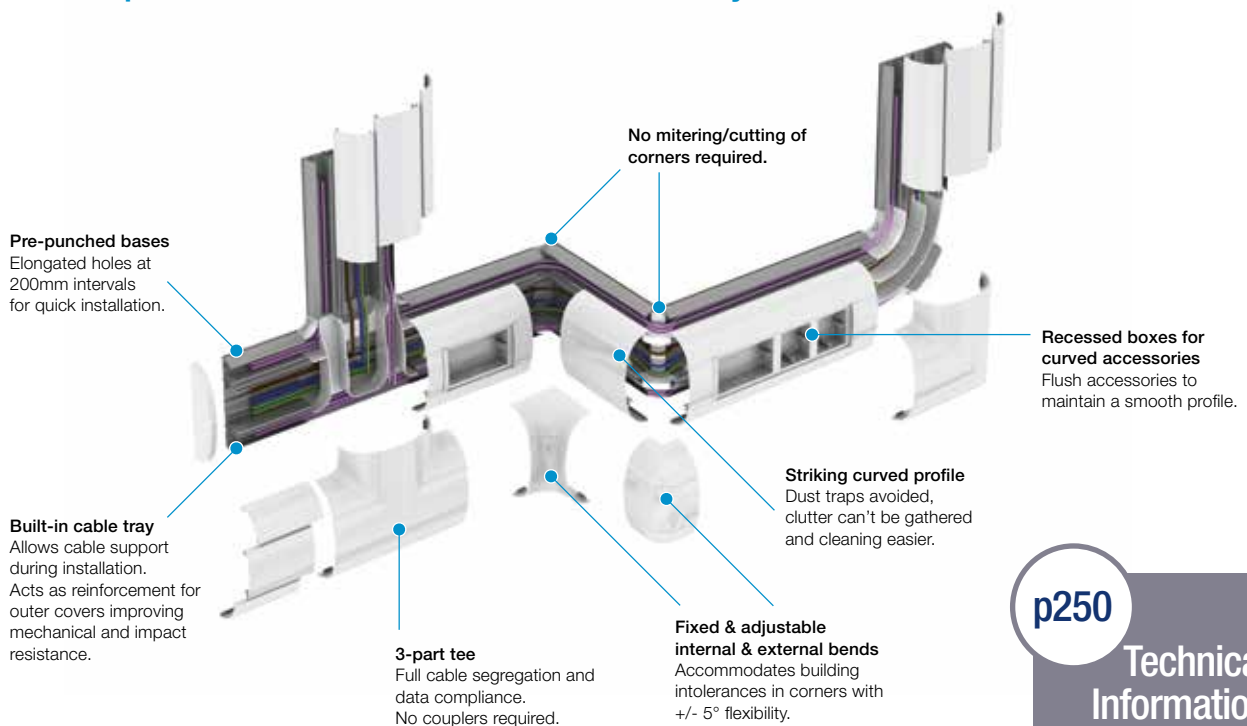
Odyssey is available as part of our standard range with Bio antimicrobial protection within the PVC-U material.

Odyssey Bio trunking component chart

Trunking assembly	Coupler	End cap	Internal bend	External bend	Flat angle (up or down)	Flat tee (up or down)	1 gang accessory box	2 gang accessory box	1 gang Bio power and data mounting frame	2 gang Bio power and data mounting frame
Odyssey trunking 180 x 57mm	DD1213WH Pack 1	DD1233WH Pack 2	DD1313WH Pack 1	DD1353WH Pack 1	DD1413WH Pack 1	DD1433WH Pack 1	DD1513WH Pack 20	DD1523WH Pack 10	DD1561WH Pack 2	DD1571WH Pack 2

Odyssey Trunking

Odyssey can enhance the look of a project as well as providing all of the practical features that ensure fast and easy installation.



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Technical Information

PVC-U PERIMETER TRUNKING SYSTEMS

TWIN PLUS TRUNKING

Twin Plus is a large, segregated, two-compartment skirting and dado trunking system that provides high capacity cable containment for most commercial environments.

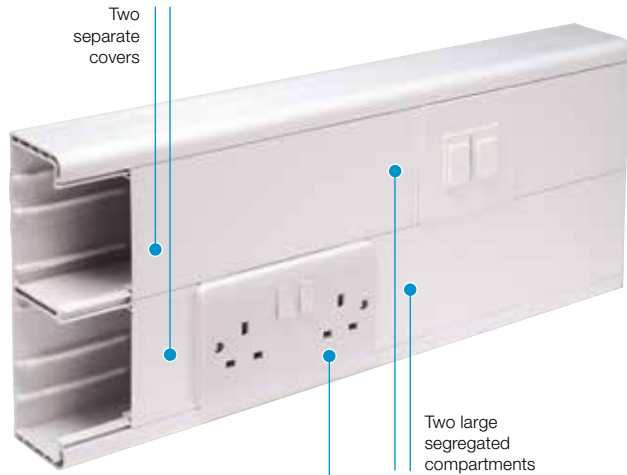


Product information

- 210 x 57mm
- 2 large segregated compartments
- Can be subdivided
- Separate cover access to each compartment
- Suitable for skirting and dado application
- Self extinguishing and non-flame propagating PVC-U
- Fire clips available to secure cables within trunking and prevent premature collapse in the event of a fire

Data information

- Compliant up to Cat 7a
- 50mm bend radius fittings
- Adjustable data box 32-47mm
- Screened data boxes
- Steel screening divider available to BS EN 50714-2



Standard Colour
WH
WH: White

Part M

For box assemblies and spacers that meet the requirements of Part M (DDA) please refer to page 54.

PVC-U PERIMETER TRUNKING SYSTEMS

Basic components



Base unit

code	pack
EMT60WH	2 x 3m

Cover

code	pack
ETL1WH	8 x 3m

REASSURINGLY RECYCLED

OUR TWIN PLUS TRUNKING BUILT UP PROFILE IS MANUFACTURED USING 69% RECYCLED MATERIAL.

Fittings (ABS)



Coupler

code	pack
EC60WH	1

End cap

code	pack
EEC60WH	1

For additional retention use end cap retaining screws G1310 (Pack 40)



Internal bend assembly

code	pack
EIB60WH	1

External bend assembly – standard

code	pack
ESXB60WH	1

Capacity reduced by 50%

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Technical Information

Fittings (ABS)



External bend assembly – large

code	pack
EXB60WH	1



Flat angle assembly

code	pack
EFA60WH	1



Flat tee assembly

code	pack
EFT60WH	1



Note: 135° versions are also available. For more information call the Technical Team on +44 (0)1424 856688

Components



Dividing fillet – PVC-U

code	pack
LDF1	8 x 3m

Firefly clips



NEW

Fire clip Twin Plus

code	pack
FCTP	10



NEW

Don't forget, Firefly clips to comply with the current edition of BS 7671 Wiring Regulations

See page 141 for more information

Boxes and plates



***RCD/MCD housing**

code	pack
EAHC1MWH	1

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex



1 gang accessory box

code	depth	pack
ESSB1WH	30mm	20



2 gang accessory box

code	depth	pack
ESSB2WH	30mm	10



Accessory box spacer

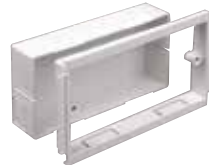
code	size	pack
ES1WH	14mm	4

For use between accessory boxes



1 gang adjustable depth box

code	depth	pack
EAB1WH	32 – 47mm	10



2 gang adjustable depth box

code	depth	pack
EAB2WH	32 – 47mm	5



1 gang accessory plate

code	pack
ESSP1WH	2



2 gang accessory plate

code	pack
ESSP2WH	2

Please see page 261 for more information on the range of adjustable boxes

Part M

For assemblies and spacers that meet the requirements of Part M (DDA) please refer to page 54.





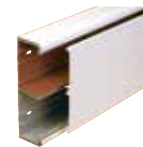
Steel screening divider
code pack
ESF60 1 x 1.5m
Note: optional steel screening divider to assist in compliance with BS EN 50174-2



Steel screening divider bonding strap
code pack
ESF2 5



Bonding strap
code pack
ESBS1 5



Screened base unit (comp 1 or 2)
code pack
EMT60CS1WH 1 x 3m
Note: Can be used to screen top or bottom compartment (Lids supplied separately)



Screened Main compartment cover
code pack
ETL1CSWH 1 x 3m



1 gang screened accessory box
code depth pack
ESSB1SWH 30mm 20



2 gang screened accessory box
code depth pack
ESSB2SWH 30mm 10

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to assist in screening from electromagnetic interference to data and communications cabling within trunking systems. The coating is applied to a range of data boxes, covers, clip-on components and fabricated fittings.

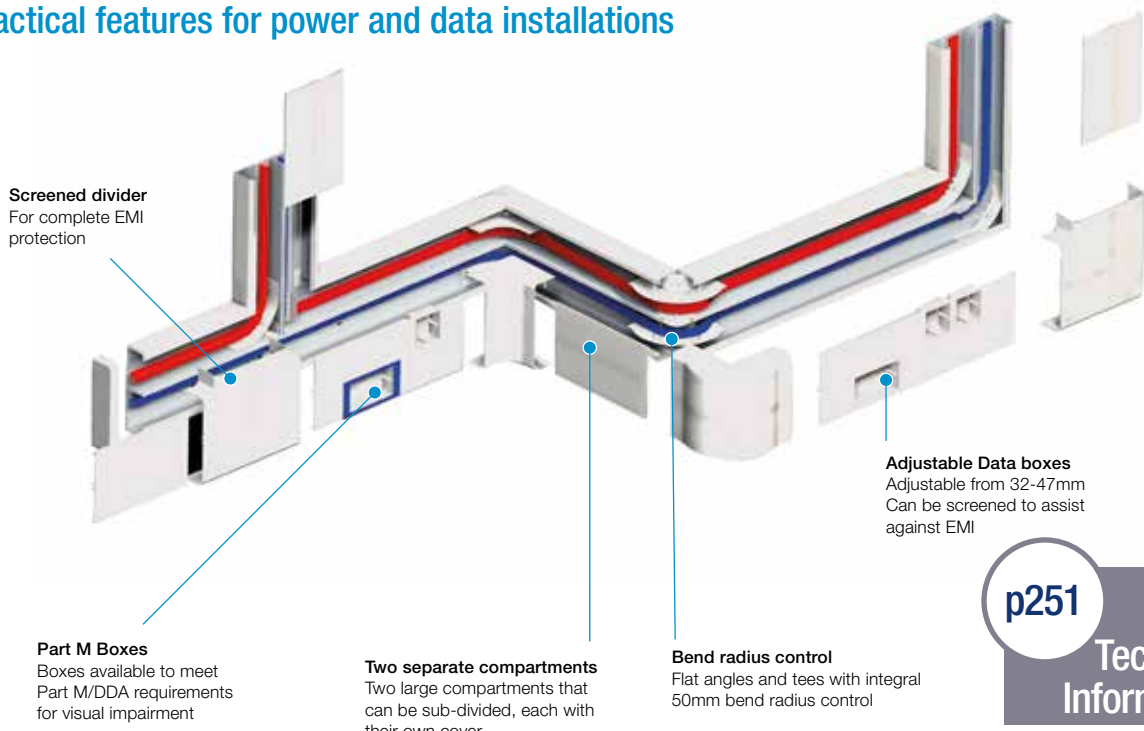
WARNING: A CS coating is not suitable for low voltage circuits. As per the current version of BS 7671 wiring regulations. For data/voice use only.

Screened compartments key to coding

CS1 = screening in compartment 1

Twin Plus

Twin Plus is a high cable capacity trunking system with a variety of practical features for power and data installations



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Technical Information

XL TRUNKING 201 AND 202



'Bio option' available to special order

XL Trunking 201 and 202 are deep, large capacity 3 compartment, segregated containment systems.

Product information

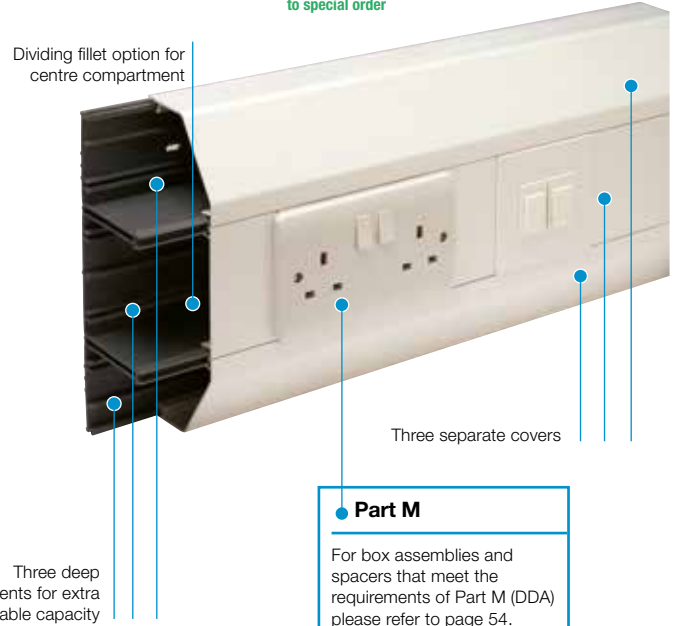
- 220 x 65mm
- 1 full and 2 half size compartments
- XL201 for dado installation only
- 3 deep segregated compartments
- Can be subdivided
- Suitable for dado and skirting application
- Can be fed from larger trunking systems for increased cable distribution
- Boxes available to comply with Part M (DDA)
- Comprehensive range of flush power and data accessories
- Self extinguishing and non-flame propagating PVC-U

Data information

- Compliant up to Cat 7a*
- Adjustable data box 32-47mm
- Screened data boxes
- Steel screening divider available to BS EN 50714-2

See page 92 for quick reference chart

Standard Colour
WH
WH: White



Part M

For box assemblies and spacers that meet the requirements of Part M (DDA) please refer to page 54.

Trunking profiles



XL201
size 220 x 65mm



XL202
size 220 x 65mm

REASSURINGLY RECYCLED

OUR XL BUILT UP PROFILES ARE MANUFACTURED USING THE FOLLOWING PERCENTAGES OF RECYCLED MATERIAL.

XL201 70%
XL202 71%

***Data fittings**

For made to order fittings to meet Cat 7a requirements please contact our Technical Team on +44 (0)1424 856688

Basic components



Base unit
code ELTB200 pack 4 x 3m



Main compartment cover
code ETL1WH pack 8 x 3m



Angled cover
code ELAC200WH pack 8 x 3m



Square cover
code ELSC200WH pack 8 x 3m

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Technical Information

PVC-U PERIMETER TRUNKING SYSTEMS

XL201 fittings



XL201 Coupler

code	pack
EC201WH	5



XL201 End cap

code	pack
EEC201WH	5

Universal for both LH & RH



XL201 Internal bend

code	pack
EIB201WH	5



XL201 External bend

code	pack
EXB201WH	5



XL201 Flat angle

code	pack
EFA201WH	1



XL201 Flat tee

code	pack
EFT201WH	1

XL202 fittings



XL202 Coupler

code	pack
EC202WH	5



XL202 End cap

code	pack
EEC202LHWH (Left hand)	5
EEC202RHWH (Right hand)	5



XL202 Internal bend

code	pack
EIB202WH	5



XL202 External bend

code	pack
EXB202WH	5



XL202 Flat angle - upward

code	pack
EFA202UWH	1



XL202 Flat angle - downward

code	pack
EFA202DWH	1

Components



Dividing fillet	
code	pack
ELDF200	8 x 3m



Steel screening divider	
code	pack
ESF200	1 x 1.5m

Note: optional steel screening divider to assist in compliance with BS EN 50174-2



Steel screening divider bonding strap	
code	pack
ESF2	5



Bonding strap	
code	pack
ESBS1	5

Boxes and plates



*RCD/MCB Housing	
code	pack
EAHC1MWH	1

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex



1 gang accessory box		
code	depth	pack
ESSB1WH	30mm	20



2 gang accessory box		
code	depth	pack
ESSB2WH	30mm	10



Accessory box spacer		
code	size	pack
ES1WH	14mm	4

For use between accessory boxes



1 gang adjustable depth box		
code	depth	pack
EAB1WH	32 – 47mm	10



2 gang adjustable depth box		
code	depth	pack
EAB2WH	32 – 47mm	5



1 gang accessory plate	
code	pack
ESSP1WH	2



2 gang accessory plate	
code	pack
ESSP2WH	2

Please see page 261 for more information on the range of adjustable boxes

Part M

For box assemblies and spacers that meet the requirements of Part M (DDA) please refer to page 54.



Quick reference chart XL Trunking 201 and 202

3 Compartment

XL201	XL202
220 x 65mm	220 x 65mm



Base unit

Pack 4 x 3m



ELTB200	ELTB200
---------	---------

Main compartment cover

Pack 8 x 3m



ETL1WH	ETL1WH
--------	--------

Angled cover

Pack 8 x 3m



2 x ELAC200WH	ELAC200WH
---------------	-----------

Square cover

Pack 8 x 3m



-	ELSC200WH
---	-----------

Couplers

Pack 5



EC201WH	EC202WH
---------	---------

End caps

Pack 5



EEC201WH	EEC202LHWH EEC202RHWH
----------	--------------------------

Internal bends

Pack 5



EIB201WH	EIB202WH
----------	----------

External bends

Pack 5



EXB201WH	EXB202WH
----------	----------

Flat angles

Pack 1



EFA201WH	EFA202UWH EFA202DWH
----------	------------------------

Flat tees

Pack 1



EFT201WH	†
----------	---

† XL202 trunking flat tees

Where profiles have one angled cover and one square cover, as with XL202, it is possible to create a tee by changing the top or bottom cover so that covers to match the profile of the trunking. For example:

- Upward tee – select XL201 tee remove the angled bottom cover and replace with square cover.

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Technical
Information

XL TRUNKING 211 AND 212

XL Trunking sizes 211 and 212 are deep, large capacity, 4-compartment, segregated containment systems with facilities for adding further full-size segregated compartments.



'Bio option' available to special order

Product information

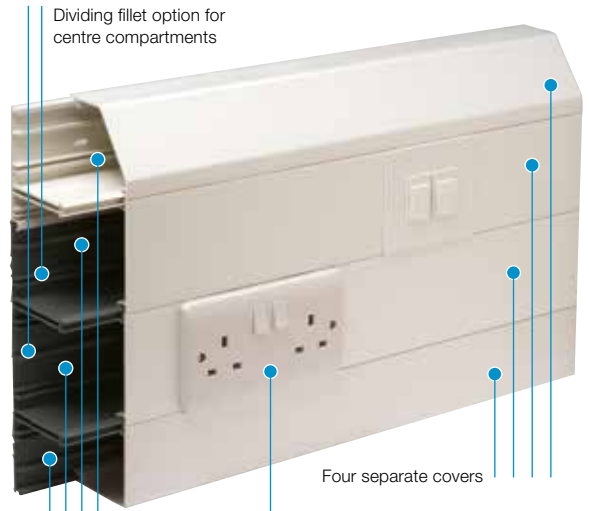
- 308 x 65mm
- 2 full and 2 half size compartments
- Can be subdivided
- Suitable for dado and skirting application
- Can be fed from larger trunking systems for increased cable distribution
- Boxes available to comply with Part M (DDA)
- Comprehensive range of flush power and data accessories
- Self extinguishing and non-flame propagating PVC-U

Data information

- Compliant up to Cat 7a*
- Adjustable data box 32-47mm
- Screened data boxes
- Steel screening divider available to BS EN 50714-2

See page 96 for quick reference chart

Standard Colour
WH
WH: White



Part M

For box assemblies and spacers that meet the requirements of Part M (DDA) please refer to page 54.

***Data fittings**

For made to order fittings to meet Cat 7a requirements please contact our Technical Team on +44 (0)1424 856688

REASSURINGLY RECYCLED

OUR XL 211 AND 212 TRUNKING BUILT UP PROFILES ARE MANUFACTURED USING 73% RECYCLED MATERIAL.

Trunking profiles



XL211
size 308 x 65mm



XL212
size 308 x 65mm

Basic components



Base unit
code ELTB200 pack 4 x 3m



Extendable base
code ELEB200 pack 4 x 3m



Main compartment cover
code ETL1WH pack 8 x 3m



Angled cover
code ELAC200WH pack 8 x 3m



Square cover
code ELSC200WH pack 8 x 3m

p252 **Technical Information**

PVC-U PERIMETER TRUNKING SYSTEMS

XL211 fittings



XL211 Coupler	
code	pack
EC211WH	5



XL211 End cap	
code	pack
EEC211WH	5
Universal for both LH & RH	



XL211 Internal bend	
code	pack
EIB211WH	5



XL211 External bend	
code	pack
EXB211WH	5



XL211 Flat angle	
code	pack
EFA211WH	1



XL211 Flat tee	
code	pack
EFT211WH	1

XL212 fittings



XL212 Coupler	
code	pack
EC212WH	5



XL212 End cap	
code	pack
EEC212LHWH (Left hand)	5
EEC212RHWH (Right hand)	5



XL212 Internal bend	
code	pack
EIB212WH	5



XL212 External bend	
code	pack
EXB212WH	5



XL212 Flat angle - upward	
code	pack
EFA212UWH	1



XL212 Flat angle - downward	
code	pack
EFA212DWH	1

† XL212 trunking flat tees

Where profiles have one angled cover and one square cover, as with XL212, it is possible to create a tee by changing the top or bottom cover to match the profile of the trunking.
For example:

- Upward tee – select XL211 tee remove the angled bottom cover and replace with square cover.

Fittings



Dividing fillet

code	pack
ELDF200	8 x 3m



Steel screening divider

code	pack
ESF200	1 x 1.5m

Note: optional steel screening divider to assist in compliance with BS EN 50174-2



Steel screening divider bonding strap

code	pack
ESF2	5



Bonding strap

code	pack
ESBS1	5

Boxes and plates



***RCD/MCB Housing**

code	pack
EAHC1MWH	1

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex



1 gang accessory box

code	depth	pack
ESSB1WH	30mm	20



2 gang accessory box

code	depth	pack
ESSB2WH	30mm	10



Accessory box spacer

code	size	pack
ES1WH	14mm	4

For use between accessory boxes



1 gang adjustable depth box

code	depth	pack
EAB1WH	32 – 47mm	10



2 gang adjustable depth box

code	depth	pack
EAB2WH	32 – 47mm	5



1 gang accessory plate

code	pack
ESSP1WH	2



2 gang accessory plate

code	pack
ESSP2WH	2

Please see page 261 for more information on the range of adjustable boxes

Part M

For box assemblies and spacers that meet the requirements of Part M (DDA) please refer to page 54.



Quick reference chart

XL 211 to 212

4 Compartment

XL211

308 x 65mm

XL212

308 x 65mm



Base unit

Pack 4 x 3m



ELTB200

ELTB200

Extendable base

Pack 4 x 3m



ELEB200

ELEB200

Main compartment cover

Pack 8 x 3m



2 x ETL1WH

2 x ETL1WH

Angled cover

Pack 8 x 3m



2 x ELAC200WH

ELAC200WH

Square cover

Pack 8 x 3m



-

ELSC200WH

Couplers

Pack 5



EC211WH

EC212WH

End caps

Pack 5



EEC211WH

EEC212LHWH

EEC212RHWH

Internal bends

Pack 5



EIB211WH

EIB212WH

External bends

Pack 5



EXB211WH

EXB212WH

Flat angles

Pack 1



EFA211WH

EFA212UWH

EFA212DWH

Flat tees

Pack 1



EFT211WH

†

† Please refer to Flat Angle and Flat Tee information

Larger systems

Additional 88mm compartments can be added for larger capacity installations. For further information about larger systems please call our Technical Team on +44 (0)1424 856688.

† XL212 trunking flat tees

Where profiles have one angled cover and one square cover, as with XL212, it is possible to create a tee by changing the top or bottom cover to match the profile of the trunking.

For example:

- Upward tee – select XL211 tee remove the angled bottom cover and replace with square cover.

PVC-U TRUNKING

A range of cost-effective
PVC-U cable containment for
general wiring installations.



PVC-U TRUNKING

PVC-U TRUNKING

Our PVC-U cable containment systems are easy to install, light to handle and cost-effective to use. We have a wide range of PVC-U trunking solutions in different heights, designs, cable capacities for the distribution of power and data; making it an excellent choice of material for the majority of commercial, education and healthcare environments. PVC-U is a self-extinguishing material and therefore helps to stop the spread of fire.

We are very proud that our PVC-U products have been manufactured using 80%* recycled material during the last year. This equates to the equivalent of 300 double decker buses worth of PVC-U that we have prevented going to landfill!



All we are changing is the environment, using recycled PVC-U reduces greenhouse gases by 20 times when compared to virgin PVC-U. Reassuringly, we have been using recycled material for over 20 years, we take our effect on the environment very seriously and are doing our best to minimise our impact on it.

(* Figures based on our production usages from 1/1/18 to 31/12/18)

Standard colour

The standard colour for each Marshall-Tufflex range is shown within each relevant product information section, although solid white RAL 9003 is our most popular colour option for PVC-U.

The below table identifies the relevant RAL colour reference for all our standard colour options, dependent on product range. However we would be happy to quote for any other colour requirements, please see the Special Colours section.

Standard Colours		
WH	RD	BN
WH: White RD: Red BN: Brown		

Material	Standard colour	Colour code suffix	RAL
PVC-U	Solid White	WH	9003
	Red	RD	3020
	Brown	BN	8017

Please note: it is dependent on the product range as to which colour is available as standard.

Special colours

To help enhance the style of an installation, different variations of solid colour are sometimes required.

We can provide special colours in either a solid PVC-U solution or a painted solution dependent on your client's preference. All special colour requirements will need to be specified as a RAL colour.

Please note: due to different processes and materials utilised, it may not always be possible to obtain an exact colour match between the extruded and moulded product.

Please note: these colours are made to order and therefore are subject to set up charges and a longer lead time. For more information and a quotation contact our Technical Team on +44 (0)1424 856688.



Bio antimicrobial trunking



Where hygiene is a priority, Marshall-Tufflex has a solution with integral antimicrobial properties that can be incorporated within the PVC-U perimeter trunking and deliver ongoing antimicrobial protection that prevents 99.9% of harmful bacteria.

Because the Marshall-Tufflex Bio trunking solution is integral to the PVC-U material, there is no reduction in effectiveness of the trunking throughout its life – even if it is scratched or damaged.

Bench Trunking is available in Bio but not available as standard and is made to order and therefore subject to set up charges and a longer lead time. For more information and a quotation contact our Technical Team on +44 (0)1424 856688.

PVC-U trunking

Mini trunking

10 x 8mm to 38 x 38mm

Range of small size containment for general wiring. Standard and self-fix options are available with 1 or 2 compartments. Punched profiles for single compartment and self-fixing trunking now available.

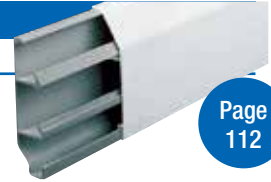


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Sovereign Plus

75 x 20mm

Skirting trunking with one piece cover.



Page 112

Maxi trunking

50 x 50mm to 150 x 150mm

A mid-size containment that can be subdivided for general wiring. Larger sizes can accommodate wiring accessories.



Page 106

Sceptre trunking

100 x 40mm

Smallest trunking system that can still accept a full range of standard wiring accessories. Suitable for unobtrusive, multiple outlet, surface installations.



Page 113

Cornice trunking

50 x 50mm

A cornice containment system for distributing services around ceiling perimeters. This system can be used with Mini Trunking to supply switch drops and pendant lighting.



Page 111

Bench trunking

105 x 105mm

Robust angular containment for distributing services on the desktop or workbench. Can accept standard wiring accessories.



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Environmental & sustainability



- We use recycled PVC-U in our manufacturing process, reducing carbon emissions in doing so.
- Research has shown that the use of recycled PVC offers a 20-fold reduction in greenhouse gas (GHG) emissions compared to virgin product. 100% recyclable material and has a long life cycle. We encourage our products to be recycled at the end of their useful life.
- PVC-U is a cost-effective, sustainable choice and comparable with other materials such as steel, aluminium, copper and wood.
- Virgin grade PVC-U has the lowest oil content of a commodity plastic.
- No increase in dioxin emission from Municipal Waste Incineration. No phthalates used in manufacture of PVC-U or FR-ABS.
- Lead-free formulations are used for mouldings and extrusions.
- No use of cadmium-based stabilisers or pigments.

EMI protection



- Some PVC-U systems are available with a coating that provides effective screening against electromagnetic interference with no reduction in cable capacity.

Fire performance



- The fire rating for PVC-U is excellent* and PVC-U has all the characteristics required for Fire Escape Time.
- Highly resistant to ignition.
- Does little to contribute to the spread of fire and is classified to Building Regs: Class 0.
- Chars and is self-extinguishing.
- Has a low rate of smoke production during the early stages of a fire.
- Acts as an effective barrier to flame spread from malfunctioning electrical components within systems.
- Does not produce flaming droplets or burning debris.

*see the independent report at www.beama.org.uk

Note: you may use the rule on the left of this page to check profile sizes.

MINI TRUNKING

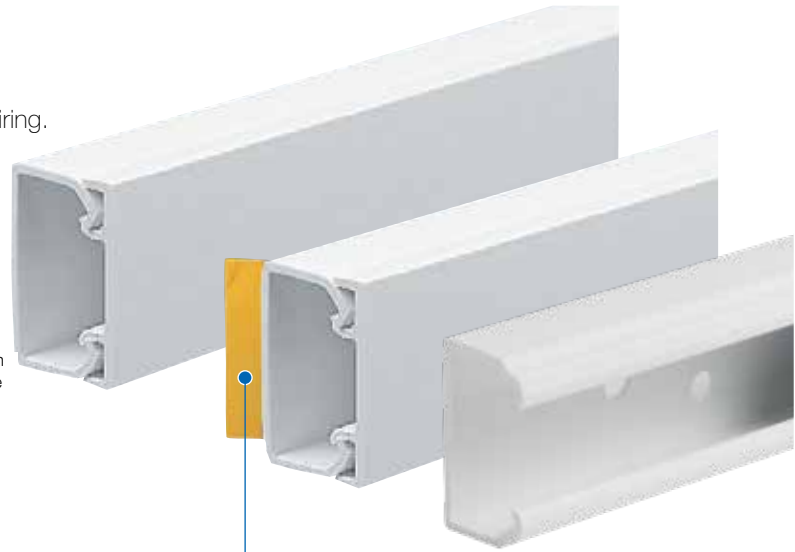
Mini trunking is an economical feeder trunking system with easy accessibility for wiring and re-wiring.

Product information

- A variety of sizes from 10 x 8mm to 38 x 38mm
- Self-fixing systems and punched systems available
- Punched holes compatible with Firefly fire safety clips*
- Self extinguishing and non-flame propagating PVC-U

Standard Colours		
WH	RD	BN
WH: White RD: Red BN: Brown		

Colour options: Red and Brown solid colour options are available as standard items for selected products. Please indicate when ordering by replacing the WH colour code suffix with either RD for red or BN for brown.



With or without self-fixing tape

See page 102 for quick reference chart

REASSURINGLY RECYCLED

OUR WHITE MINI TRUNKING LENGTHS ARE MANUFACTURED USING OVER 95% RECYCLED MATERIAL.

Standard profiles



code	size	pack
MMT1WH	16 x 16mm	30 x 3m



code	size	pack
MMT2WH	25 x 16mm	30 x 3m
Brown is available as standard colour		



code	size	pack
MMT3WH	38 x 16mm	15 x 3m
Red is available as standard colour		



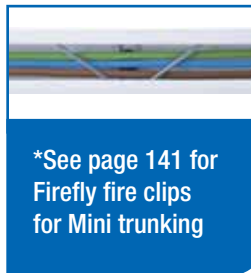
code	size	pack
MMT4WH	38 x 25mm	15 x 3m
Brown is available as standard colour		



code	size	pack
MMT5WH	50 x 25mm	12 x 3m



code	size	pack
MMT6WH	38 x 38mm	6 x 3m



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Technical Information

Self fixing profiles



MMT00SF

code	size	pack
MMT00SFWH	10 x 8mm	40 x 3m

Brown is available as standard colour



MMT0SF

code	size	pack
MMT0SFWH	16 x 10mm	40 x 3m



MMT1SF

code	size	pack
MMT1SFWH	16 x 16mm	30 x 3m



MMT2SF

code	size	pack
MMT2SFWH	25 x 16mm	30 x 3m

Red and brown are available as standard colours



MMT3SF

code	size	pack
MMT3SFWH	38 x 16mm	15 x 3m



MMT4SF

code	size	pack
MMT4SFWH	38 x 25mm	15 x 3m

Punched profiles



**Punched profiles
MMTH2**

code	size	pack
MMTH2WH	25 x 16mm	30 x 3m

Red is available as a standard colour



**Punched profiles
MMTH2SF self fix**

code	size	pack
MMTH2SFWH	25x16mm	30x3m



**Punched profiles
MMTH4**

code	size	pack
MMTH4WH	38 x 25mm	15 x 3m



**Punched profiles
MMTH4SF self fix**

code	size	pack
MMTH4SFWH	38x25mm	15x3m

Components



Ceiling rose adaptor

code	size	pack
TCR2WH	2 K.O. for MMT1	10
	2 K.O. for MMT2	

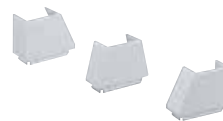
Designed to accept all popular makes of ceiling rose. Supplied with fixing screws.
Fixing centres 50.8mm.
Internal depth 12mm.
External diameter 81mm



**Surface box adaptors
MMT0/1/2/3**

code	size	pack
TA1WH	MMT1	50
TA2WH	MMT2	50
TA3WH	MMT3	20

TA0 fits MMT1-KO



**Tapered adaptors
MMT1 & 2 to fit TA3 aperture**

code	size	pack
TA3/1CWH	MMT1	20
TA3/2LHWH	MMT2	20
TA3/2RHWH	MMT2	20
TA3/2CWH	MMT2	20



Conduit to mini adaptor

code	size	pack
TAC1/2WH	MMT1/20mm round	20

Accessories



PVC pipe cutter

code	pack
MTPC42	1

Please note

There are no fittings for MMT00SF and MMT0SFWH.

Coupler

External coupler

End cap

End cap

Internal bend

Square internal bend

External bend

Square external bend



MMT1WH, MMT1SFWH

16 x 16mm



TC1WH
Pack 40

TEC1WH
Pack 100

TIB1WH
Pack 50

TEB1WH
Pack 50

MMT2WH, MMT2SFWH, MMTH2WH, MMTH2SFWH

25 x 16mm



TC2WH*
Pack 40

TEC2WH*
Pack 100

TIB2WH*
Pack 30

TEB2WH*
Pack 30

MMT3WH, MMT3SFWH

38 x 16mm



TC3WH***
Pack 25

TEC3WH***
Pack 50

TIB3WH***
Pack 25

TEB3WH***
Pack 25

MMT4WH, MMT4SFWH, MMTH4WH, MMTH4SFWH

38 x 25mm



TC4WH**
Pack 25

TEC4WH**
Pack 30

TIB4WH**
Pack 25

TEB4WH**
Pack 25

MMT5WH

50 x 25mm



TC5WH
Pack 20

TEC5WH
Pack 20

TIB5WH
Pack 20

TEB5WH
Pack 20

MMT6WH

38 x 38mm



TC6WH
Pack 10

TEC6WH
Pack 20

TIB6WH
Pack 10

TEB6WH
Pack 10

Flat angles

Square angle

Tees

Square equal tee

Square unequal tee

Ceiling tee

Angle tee



MMT1WH, MMT1SFWH

16 x 16mm



TFB1WH
Pack 60

TT1-1WH
Pack 20

-

TCT1/1WH
Pack 10

-

MMT2WH, MMT2SFWH, MMTH2WH, MMTH2SFWH

25 x 16mm



TFB2WH*
Pack 30

TT2-2WH*
Pack 30

TT2-1WH
Pack 30

TCT2/1WH
TCT2/2WH
Pack 10

TAT2LHWH
TAT2RHWH
Pack 10

MMT3WH, MMT3SFWH

38 x 16mm



TFB3WH***
Pack 25

TT3-3WH***
Pack 25

TT3-1WH
TT3-2WH
Pack 20

-

-

MMT4WH, MMT4SFWH, MMTH4WH, MMTH4SFWH

38 x 25mm



TFB4WH**
Pack 20

TT4-4WH**
Pack 20

TT4-1WH
TT4-2WH
TT4-3WH
Pack 20

TCT4/2WH
Pack 10

-

MMT5WH

50 x 25mm



TFB5WH
Pack 20

TT5-5WH
Pack 20

-

-

-

MMT6WH

38 x 38mm



TFB6WH
Pack 10

TT6-6WH
Pack 10

-

-


-

* Red and brown are available as standard colours

** Brown is available as a standard colour


*** Red is available as a standard colour

1 gang accessory boxes - Square


Depth	Mini trunking sizes	Knockout entries	Code	Pack	
19mm	MMT1/2	LH, RH, Centre	MSSB28WH	20	
19mm	MMT3	LH, RH, Centre	MSSB110WH	20	
32mm	MMT1/2	LH, RH, Centre	MSSB35WH	20	
32mm	MMT3	LH, RH, Centre	MSSB116WH*	20	
44mm	MMT2/3	Centre entry for both MMT2 and MMT3. RH and LH side entry for MMT2.	MSSB18WH	10	
44mm	MMT3	LH, RH, Centre	MSSB120WH	10	

* MSSB116 is also available in red


1 gang accessory boxes - Radius

Depth	Mini trunking sizes	Knockout entries	Code	Pack	
19mm	MMT1/2	LH, RH, Centre	MSSB27WH	20	
19mm	MMT3	LH, RH, Centre	MSSB112WH	20	
32mm	MMT1/2	LH, RH, Centre	MSSB20WH	20	
32mm	MMT3	LH, RH, Centre	MSSB118WH	20	
44mm	MMT2/3	For MMT2 = 1 top entry centre For MMT3 = 1 bottom entry centre	MSSB42WH	10	
44mm	MMT3	LH, RH, Centre	MSSB122WH	10	

1 gang shrouded entry boxes – Square

Depth	Mini trunking sizes	Knockout entries	Code	Pack	
32mm	MMT2	With integral moulded MMT2 adaptor	MSSB15WH	20	

Cover plates

Depth	Mini trunking sizes	Description	Code	Pack	
2mm	N/A	Flat	MSCP2WH	20	
9mm	N/A	Raised	MSSP10WH	10	

Earth terminal


Size	Mini trunking sizes	Description	Code	Pack	
–	–	Brass earthing terminal – 15Amp rating	MET1	100	

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Technical
Information


2 gang boxes – Square

Depth	Mini trunking sizes	Knockout entries	Code	Pack
32mm	MMT2	LH, RH, Centre	MSSB36WH	10
32mm	MMT3	LH, RH, Centre	MSSB216WH	10
44mm	MMT2	Includes RH and LH side entry for MMT2	MSSB24WH	5
44mm	MMT3	LH, RH, Centre	MSSB220WH	5




2 gang boxes – Radius

Depth	Mini trunking sizes	Knockout entries	Code	Pack
32mm	MMT2	LH, RH, Centre	MSSB22WH	10
32mm	MMT3	LH, RH, Centre	MSSB218WH	10
44mm	MMT2/3	Centre entry	MSSB43WH	5
44mm	MMT3	LH, RH, Centre	MSSB222WH	5




2 x 1 gang box – Radius

Depth	Mini trunking sizes	Knockout entries	Code	Pack
32mm	MMT2	2 x 1 gang MMT2 centre and side entry	MSSB82WH	10




2 gang shrouded entry boxes – Square

Depth	Mini trunking sizes	Knockout entries	Code	Pack
32mm	MMT2	With integral moulded MMT2 adaptor	MSSB16WH	20
35mm	MMT2/3	Side entries permit horizontal and vertical accessory mounting Shrouded 2-part entry boxes for use with MMT2 and 3 (25 x 16mm and 38 x 16mm)	MSSB200WH	10



Cover plates

Depth	Mini trunking sizes	Description	Code	Pack
2mm	N/A	Flat	MSCP3WH	10
9mm	N/A	Raised	MSSP20WH	2

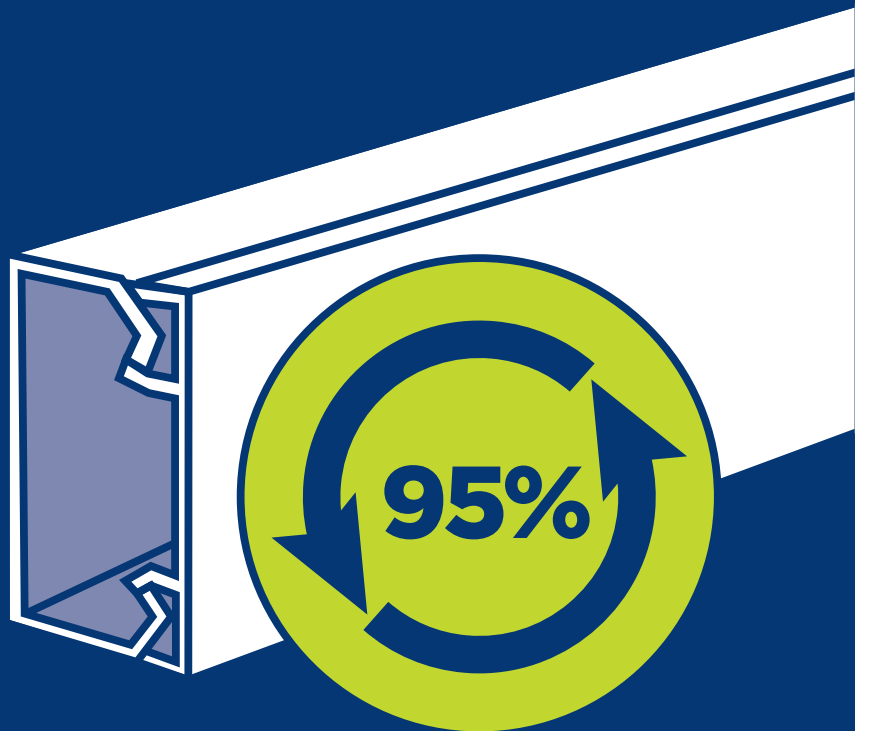


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Technical Information



OUR WHITE MINI TRUNKING LENGTHS ARE MANUFACTURED USING OVER 95% RECYCLED MATERIAL



MAXI TRUNKING

A mid-size feeder and distribution trunking that can be subdivided to carry power and data. Larger sizes can also accommodate wiring accessories.

Product information

- A variety of sizes from 50 x 50mm to 150 x 150mm
- Single or divided compartment options
- Self extinguishing and non-flame propagating PVC-U

Data information

- Fabricated data slow bends

Standard Colour
WH
WH: White



See page 108 for quick reference chart

Single compartments are subdividable

REASSURINGLY RECYCLED OUR WHITE MAXI LENGTHS ARE MANUFACTURED USING OVER 94% RECYCLED MATERIAL.

Trunking profiles



MTRS50		
code	size	pack
MTRS50WH	50 x 50mm	8x3m



MTRS75/50		
code	size	pack
MTRS75/50WH	75 x 50mm	4x3m



MTRS75		
code	size	pack
MTRS75WH	75 x 75mm	4x3m



MTRS100/50		
code	size	pack
MTRS100/50WH	100x50mm	4x3m



MTRS100		
code	size	pack
MTRS100WH	100 x 100mm	4x3m



MTRS150		
code	size	pack
MTRS150WH	150 x 150mm	2x3m



See page 141 for Firefly fire clips for Maxi trunking

Clear Maxi trunking



Clear MTRS50		
code	size	pack
MTRS50CL	50x50mm	4x3m



Clear TCCS50 coupler		
code		pack
TCCS50CL		10

Clear maxi trunking is particularly useful for high security installations. Other clear Maxi products are available but are made to order and subject to set up charges. For further information please contact our technical team on +44 (0)1424 856688.

Fittings



Spacer – 25mm

code	pack
MTRS100LID25WH	20

For use between accessory boxes



Mini trunking adaptor

code	size	pack
TTA2WH	MMT2	10
TTA4WH	MMT4	10

Note: Only for minimum 50mm trunking depth



Flanged coupler

code	size	pack
TTRS1WH	MTRS100 to MTRS100/50	1
TTRS2WH	MTRS100 to MTRS75	1
TTRS3WH	MTRS100 to MTRS75/50	1
TTRS4WH	MTRS100 to MTRS50	1
TTRS5WH	MTRS100/50 to MTRS75/50	1
TTRS6WH	MTRS100/50 to MTRS50	1
TTRS7WH	MTRS75 to MTRS75/50	1
TTRS8WH	MTRS75 to MTRS50	1
TTRS9WH	MTRS75/50 to MTRS50	1
TTRS10WH	MTRS150 to MTRS100	1
TTRS11WH	MTRS150 to MTRS75	1

Clip on fittings

For individual components and part numbers please refer to fittings chart on next page.



Slow bend fittings for data

For individual components and part numbers please refer to fitting chart on next page.



Fabricated fittings

For individual components and part numbers please refer to fittings chart on next page.



Components



Dividing fillet

code	system	pack
MDFS50	50 x 50mm	10 x 3m
	75 x 50mm	
	100 x 50mm	
MDFS75	75 x 75mm	10 x 3m
MDFS100	100 x 100mm	10 x 3m
MDFS150	150 x 150mm	10 x 3m

Boxes and plates



1 gang accessory box

code	pack
TSS03WH	20

For MTRS100/50 and MTRS100.
Internal depth 30mm



2 gang accessory box

code	pack
TSS04WH	10

For MTRS100/50 and MTRS100.
Internal depth 30mm



1 gang accessory plate

code	pack
MTSPS1WH	15

For MTRS100/50 and MTRS100.



2 gang accessory plate

code	pack
MTSPS2WH	15

For MTRS100/50 and MTRS100.

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Technical Information

Fittings

Dividing fillet	Cable retainer	External coupler	Internal coupler	Flanged coupler	End cap
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MTRS50WH* 50 x 50mm		MDFS50 Pack 10 x 3m	TCRS50 Pack 10	TCCS50WH* Pack 10	TICS50WH Pack 10	TFCS50WH Pack 1	TECS50WH Pack 10
MTRS75/50WH 75 x 50mm		MDFS50 Pack 10 x 3m	TCRS75 Pack 10	TCCS75/50WH Pack 10	TICS75/50WH Pack 10	TFCS75/50WH Pack 1	TECS75/50WH Pack 10
MTRS75WH 75 x 75mm		MDFS75 Pack 10 x 3m	TCRS75 Pack 10	TCCS75WH Pack 10	TICS75WH Pack 5	TFCS75WH Pack 1	TECS75WH Pack 5
MTRS100/50WH 100 x 50mm		MDFS50 Pack 10 x 3m	TCRS100 Pack 10	TCCS100/50WH Pack 10	TICS100/50WH Pack 5	TFCS100/50WH Pack 1	TECS100/50WH Pack 5
MTRS100WH 100 x 100mm		MDFS100 Pack 10 x 3m	TCRS100 Pack 10	TCCS100WH Pack 2	TICS100WH Pack 5	TFCS100WH Pack 1	TECS100WH Pack 5
MTRS150WH 150 x 150mm		MDFS150 Pack 10 x 3m	TCRS150 Pack 5	-	TICS150WH Pack 5	-	TECS150WH Pack 1

*Clear is available as standard colour

Flat angles

90° flat angle (clip-on)	90° flat angle (moulded)	90° flat angle (fabricated)	90° data flat angle (fabricated)	135° flat angle (fabricated)
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MTRS50WH 50 x 50mm		TFAS50CWH Pack 1	TFAS50MWH Pack 1	TFAS50FWH Pack 1	TFAS50SBWH Pack 1	TFAS50ABWH Pack 1
MTRS75/50WH 75 x 50mm		-	TFAS75/50MWH Pack 1	TFAS75/50FWH Pack 1	-	-
MTRS75WH 75 x 75mm		-	TFAS75MWH Pack 1	TFAS75FWH Pack 1	-	-
MTRS100/50WH 100 x 50mm		TFAS100/50CWH Pack 1	-	TFAS100/50FWH Pack 1	-	-
MTRS100WH 100 x 100mm		-	-	TFAS100FWH Pack 1	-	-
MTRS150WH 150 x 150mm		-	-	TFAS150FWH Pack 1	-	-

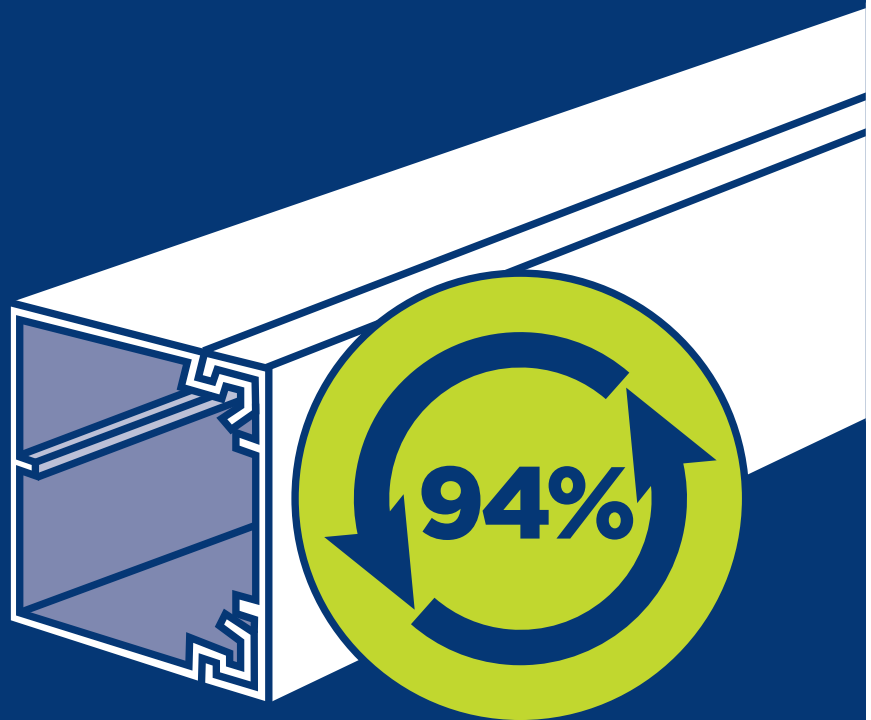
Internal bends					External bends				
Internal 90° bend (clip-on)	Internal 90° bend (moulded)	Internal 90° bend (fabricated)	Internal 90° Data bend (fabricated)	Internal 135° Data bend (fabricated)	External 90° bend (clip-on)	External 90° bend (moulded)	External 90° bend (fabricated)	External 90° Data bend (clip-on)	External 135° bend (fabricated)
TIAS50CWH Pack 1	TIAS50MWH Pack 1	TIAS50FWH Pack 1	TIAS50SBWH Pack 1	TIAS50ABWH Pack 1	TOAS50CWH Pack 1	TOAS50MWH Pack 1	TOAS50FWH Pack 1	TOAS50SBWH Pack 1	TOAS50ABWH Pack 1
-	-	TIAS75/50WH Pack 1	-	-	-	-	TOAS75/50WH Pack 1	-	-
-	-	TIAS75WH Pack 1	-	-	-	-	TOAS75WH Pack 1	-	-
TIAS100/50CWH Pack 1	-	TIAS100/50WH Pack 1	-	-	TOAS100/50CWH Pack 1	-	TOAS100/50WH Pack 1	-	-
-	-	TIAS100WH Pack 1	-	-	-	-	TOAS100WH Pack 1	-	-
-	-	TIAS150WH Pack 1	-	-	-	-	TOAS150WH Pack 1	-	-

Tees					Crossovers
Flat tee (moulded)	Flat tee (fabricated)	Data flat tee (gusseted)	External edge tee (fabricated)	Internal edge tee (fabricated)	Flat crossover (fabricated)
-	TFTS50WH Pack 1	TFTS50GTWH Pack 1	TTES50WH Pack 1	TTIS50WH Pack 1	-
TFTS75/50MWH Pack 1	TFTS75/50WH Pack 1	-	TTES75/50WH Pack 1	TTIS75/50WH Pack 1	-
-	TFTS75WH Pack 1	-	TTES75WH Pack 1	TTIS75WH Pack 1	TCUS75WH Pack 1
-	TFTS100/50WH Pack 1	-	TTES100/50WH Pack 1	TTIS100/50WH Pack 1	TCUS100/50WH Pack 1
-	TFTS100WH Pack 1	-	TTES100WH Pack 1	TTIS100WH Pack 1	TCUS100WH Pack 1
-	TFTS150WH Pack 1	-	TTES150WH Pack 1	TTIS150WH Pack 1	-





OUR WHITE MAXI LENGTHS ARE MANUFACTURED USING OVER 94% RECYCLED MATERIAL.



PVC-U TRUNKING

CORNICE TRUNKING

Cornice trunking provides elegant and unobtrusive concealment for surface wiring around ceilings.

Product information

- 50 x 50mm
- Designed for use with MMT2 mini trunking (see page 100)
- Adaptors available for cable runs across ceilings or down walls
- Built in cable retainer
- Use with mini trunking to supply pendant drops and surface accessories
- Removable cover
- Self extinguishing and non-flame propagating PVC-U

Standard Colour
WH
WH: White



Trunking profile



Cornice trunking

code	size	pack
MCT1WH	50 x 50	8 x 3m

Fittings



Coupler

code	pack
MCTC1WH	10



End cap

code	pack
MCEC1WH	10



Internal bend

code	pack
MCIB1WH	10



External bend

code	pack
MCEB1WH	10



Cable retainer

code	pack
MCBP1	10



Corner adaptor LH to Mini trunking

code	size	pack
MCCD2LHWH	MMT2	10



Corner adaptor RH to Mini trunking

code	size	pack
MCCD2RHWH	MMT2	10



Trunking adaptor to MMT2 Mini trunking

code	pack
MCTA2WH	10

PVC-U TRUNKING

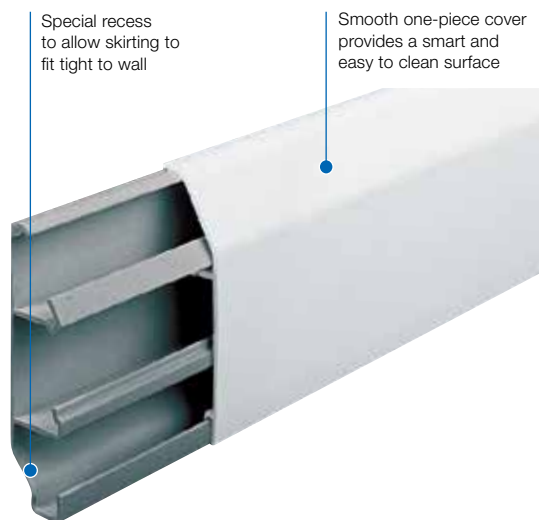


SOVEREIGN PLUS TRUNKING

Sovereign Plus skirting trunking is a slim trunking system suitable for installation into hotels, small offices and residential properties.

Product information

- 75 x 20mm
- 3 compartments
- Suitable for skirting applications
- Overlapping fittings
- Accessory boxes designed to accept square and radius corner accessories
- Designed for use with MMT2 mini trunking (see page 100)
- Self extinguishing and non-flame propagating PVC-U



Standard Colour
WH
WH: White

Trunking profile



Skirting trunking

code	size	pack
JE03WH	75 x 20	8 x 3

Fittings



Coupler

code	size	pack
JM22WH		20



End cap

code	size	pack
JM21WH	(left hand)	5
JM20WH	(right hand)	5



Internal bend

code	size	pack
JM23WH		10



External bend

code	size	pack
JM24WH		10



MMT2 adaptor (in line)

code	size	pack
JM25WH	25 x 16	5

Boxes and plates



1 gang skirting accessory box

code	depth	pack
JM41WH	32mm	5



2 gang skirting accessory box

code	depth	pack
JM42WH	32mm	3

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Technical Information

SCEPTRE TRUNKING

Sceptre trunking is the smallest trunking system that can still accept a full range of standard wiring accessories. It is suitable for unobtrusive, multiple outlet, surface installations.

Product information

- 100 x 40mm
- Can be subdivided
- Segregated accessory boxes
- Self extinguishing and non-flame propagating PVC-U

Standard Colour
WH
WH: White



Can be subdivided to make 3 compartments

Trunking profiles



Sceptre DTR1

code	size	pack
DTR1WH	100 x 40mm	4 x 3m

Fittings



Coupler

code	size	pack
DCJ1WH	100 x 40mm	5



End cap

code	size	pack
DEC1WH	100 x 40mm	5



Internal bend

code	size	pack
DIB1WH	100 x 40mm	5



External bend

code	size	pack
DEB1WH	100 x 40mm	5



Flat angle

code	size	pack
DFB1WH	100 x 40mm	5



Flat tee (fabricated)

code	size	pack
DFT1WH	100 x 40mm	1

Components



Dividing fillets

code	size	pack
DDF1	40mm	10 x 3m



Cable retainer

code	size	pack
TCRS100	100mm	10

Assembly

The segregated accessory box has a 2 part assembly and an internal depth of 25mm.

Boxes and plates



1 gang accessory box

code	pack
TSS01WH	10



2 gang accessory box

code	pack
TSS02WH	5



1 gang accessory plate

code	pack
MTSPS1WH	15



2 gang accessory plate

code	pack
MTSPS2WH	15

PVC-U TRUNKING

Firefly

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FIREFLY FIRE SAFETY CLIPS: SAVING LIVES IN THE EVENT OF A FIRE

firefly[™]
FIXINGS
from Marshall-Tufflex

To comply with BS 7671:2018 IET Wiring Regulations, Marshall-Tufflex supply a range of Firefly fire clips to secure cables internally or externally of trunking or conduit. The clips are designed to secure all surface cables throughout an installation.



- Fire safety clips to comply with BS 5839-1
- For use within trunking and conduit
- Spring loaded design for easy installation or removal of cables
- Designed for quick installation and to maximise internal trunking space
- Internal version to fit within trunking prior to cables being installed
- External version to retrofit onto existing installations
- Melt point over 1000°C
- Kits available including all required fixings/screws ready for installation



Regulations

Regulations state that wiring systems shall be supported such that they will not be liable to premature collapse in the event of a fire.

Firefly clips meet the requirements of the current version of BS 7671 Wiring Regulations to secure surface cables and to avoid the risk of entanglement in the event of a fire.

Firefly clips feature rounded ends, preventing damage to cables and injury to installers. The spring-loaded design makes it straightforward to install and to add or remove cables after the initial installation.

BS 7671:2018 IET Wiring Regulations

See chapter 52 Selection and Erection of Wiring Systems 521.10.202 of the IET Wiring Regulations

See page 141 for product ordering information.

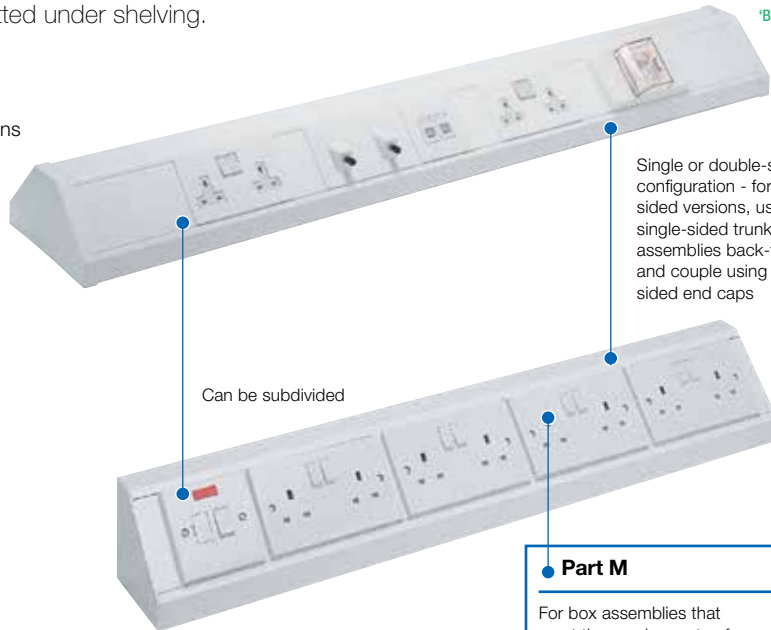
BENCH TRUNKING



Bench trunking is a robust angled trunking that can be mounted directly on to desks, work benches or fitted under shelving.

Product information

- 105 x 105mm
- Suitable for desk, bench or worktop applications
- Can be subdivided
- Fully compatible with Marshall-Tufflex and UK standard power and data accessories
- Adjustable data box 32-47mm
- Compliant up to Cat 7a
- Self extinguishing PVC-U



Single or double-sided configuration - for double sided versions, use two single-sided trunking assemblies back-to-back and couple using double-sided end caps

Can be subdivided

Standard Colour
WH
WH: White

Trunking profile



Trunking assembly

code	size	pack
MBT105WH	105 x 105mm	2 x 3m

Part M

For box assemblies that meet the requirements of Part M (DDA) please refer to page 54.

Fittings



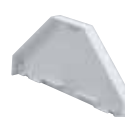
Coupler

code	pack
BTC105WH	1



Single sided end caps

code	pack
BEC105WH	2



Double sided end caps

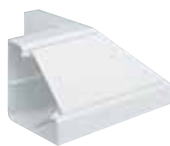
code	pack
BECP210WH	2



Internal bend

code	pack
BIA105WH	1

Couplers required with bends



External bend

code	pack
BEA105WH	1

Couplers required with bends

Components



Dividing fillet

code	pack
BDF105WH	4 x 3m

PVC-U TRUNKING

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Technical Information

Bench units



1 gang single sided unit
code pack
MBU1WH 1



1 gang double sided unit
code pack
MDBU1WH 1



2 gang single sided unit
code pack
MBU2WH 1



2 gang double sided unit
code pack
MDBU2WH 1



1 plus 2 gang single sided unit
code pack
MBU3WH 1



1 plus 2 gang double sided unit
code pack
MDBU3WH 1

PVC-U TRUNKING

Boxes and plates



***RCD/MCB housing**
code pack
BAHC1MWH 1

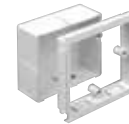
*Up to 4 modules can be accommodated
Note: RCDs and MCBs are not supplied by Marshall-Tufflex



1 gang accessory box
code depth pack
ESSB1WH 30mm 20



2 gang accessory box
code depth pack
ESSB2WH 30mm 10



1 gang adjustable depth box
code depth pack
EAB1WH 32 – 47mm 10

Please see page 123 for more information on the range of adjustable boxes



2 gang adjustable depth box
code depth pack
EAB2WH 32 – 47mm 5

Please see page 123 for more information on the range of adjustable boxes



1 gang accessory plate
code pack
ESSP1WH 2



2 gang accessory plate
code pack
ESSP2WH 2



13Amp DP 1 gang switched socket
code pack
ESS1WH 1



13Amp DP 2 gang switched socket Twin earth
code pack
ESS2WH 1

ACCESSORY BOXES, PLATES AND ENCLOSURES

Surface and flush accessory boxes, enclosures and accessories that are compatible with Marshall-Tufflex trunking systems.

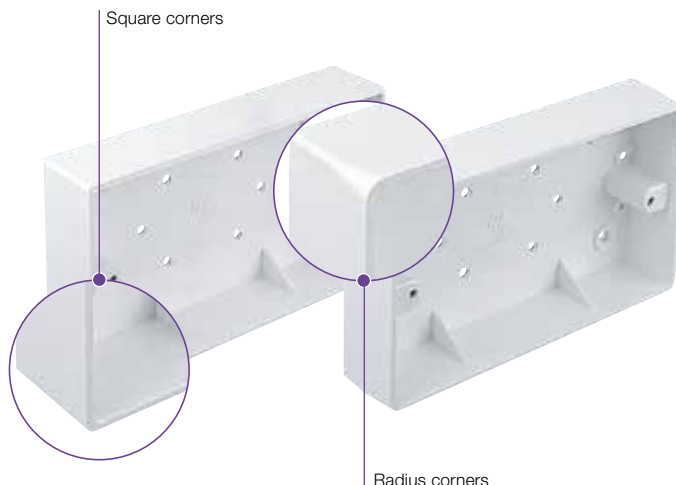


PLAIN SURFACE MOUNT BOXES

Standard fixed accessory boxes without knockouts for surface installation.

Product information

- 1 gang 87 x 87mm (external dimension)
- 2 gang 87 x 147mm
- M3.5 brass inserts
- Can be cut and drilled without the risk of shattering
- Boxes comply with BS 4662:2006+A1:2009
- Radius and square corner variants



Standard Colour
WH
WH: White

ACCESSORY BOXES, PLATES AND ENCLOSURES

Square corners



1 gang accessory box square corners

code	depth	pack
MSSB10WH	32mm	20
MSSB17WH	44mm	10



2 gang accessory box square corners

code	depth	pack
MSSB11WH	32mm	10
MSSB23WH	44mm	5

Radius corners



1 gang accessory box radius corners

code	depth	pack
MSSB26WH	19mm	20
MSSB19WH	32mm	20
MSSB40WH	44mm	10



2 gang accessory box radius corners

code	depth	pack
MSSB21WH	32mm	10
MSSB41WH	44mm	5



Dual gang accessory box

code	depth	pack
MSSB81WH	32mm	10

Cover plates



Cover plate – flat

code	description	pack
MSCP2WH	1 gang	20
MSCP3WH	2 gang	10

Depth 2mm

FLUSH MOUNTED DRY LINING BOXES

Flush mounted boxes for use within stud walls for alleviating the necessity of using noggins. Boxes feature a wide securing flange around the outer rim.

Product information

- Wide securing flange to prevent box passing through cavity
- Swivelling snap out clamps will tightly grip a range of standard thickness building boards
- Earth terminal provision incorporated
- British Patent Application No. 8208041

Snap out clamps with size identification by colour:

Wall thickness adjustment	Clamp colour
1 - 9mm	Grey
6 - 14mm	White
18 - 25mm	Green
9 - 26mm	Black



Wide securing flanges

Standard Colour
WH
WH: White

Standard



**1 gang
34mm internal depth**

code	adjustment	pack
MDLB3WH	1-9mm	20
MDLB1WH	6-14mm	20
MDLB7WH	18-25mm	20



**2 gang
34mm internal depth**

code	adjustment	pack
MDLB4WH	1-9mm	10
MDLB2WH	6-14mm	10
MDLB8WH	18-25mm	10



**Dual gang
34mm internal depth**

code	adjustment	pack
MDLB22WH	6-14mm	5

Shallow



**1 gang
25mm internal depth**

code	adjustment	pack
MDLB13WH	1-9mm	10



**2 gang
25mm internal depth**

code	adjustment	pack
MDLB14WH	1-9mm	10

FIRE SECURITY

Intumescent fire barrier pads

Fire Barrier Pads are now a requirement of Document B of the UK Building Regulations. For information on Fire Barrier Pads please refer to page 140 in our Fire and Security section or contact our Technical Team on +44 (0)1424 856688.



Deep



**1 gang
46mm internal depth**

code	adjustment	pack
MDLB29WH	9-26mm	10



**2 gang
46mm internal depth**

code	adjustment	pack
MDLB30WH	9-26mm	5

Accessories



Brass earthing terminal

code	Rating	pack
MET1	15 Amp	100

CIRCULAR DRY LINING AND ADAPTABLE BOXES

Circular flush mounted boxes.

Product information

- Wide securing flange to prevent box passing through cavity
- For board thickness from 9 to 32mm measured from the face of the board
- Swivelling snap out clamps fix the box firmly into position (screws provided)

Standard Colour
WH
WH: White

Colour options: Other colours are available but may be subject to minimum order quantities and longer lead times. For further information please contact the Technical Team on +44 (0)1424 856688.



Wide securing flanges

FIRE SECURITY

Intumescent fire barrier pads

Fire Barrier Pads are now a requirement of Document B of the UK Building Regulations. For information on Fire Barrier Pads please refer to page 140 in our Fire and Security section or contact our Technical Team on +44 (0)1424 856688.



Dry lining boxes



Double back entry - loop in 34mm internal depth (white clamps)

code	fix. centre	pack
MDCRB2WH	50.8/60.3mm	10

Ø cut out = 70mm

Moulded enclosures



Moulded enclosure unit (Adaptable box)

code	external size	pack
MTAB75AWH	81 x 81 x 67mm	10
MTAB100AWH	106 x 106 x 67mm	10
MTAB150BWH	155 x 155 x 92mm	4

Also available in black

Product information

- Degree of protection IP66.
- Raised pads in base of box to allow accessory mounting nuts to be recessed.
- Silicon rubber lid seal supplied as standard.
- Brass inserts M3.5 with stainless countersunk fixing screws.
- Suitable for drilling or cutting.
- Raised flat lid for strength.

Earth rod box



Earth rod box Green only

code	external size	pack
MECB75GN	81 x 81 x 67mm	10

Product information

- Protects connection to earth rod.
- Earth rod/cable entry \varnothing 7-10.5mm.

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WIRING ACCESSORIES

A range of power accessories that comply with BS 1363.

Product information

- Supplied as complete modules including back boxes
- Suitable for all PVC-U and aluminium dado and skirting trunking (excluding Sovereign Plus, Maxi and Sceptre)
- Suitable for bench trunking, powerpoles and posts
- Flush finish
- Twin sockets have dual earth entry



Standard Colour
WH
WH: White

Colour options: optional colours and finishes are available but these may be subject to minimum quantity orders and longer lead times. For more information contact the Technical Team on +44 (0)1424 856688.

Wiring accessories



13Amp DP 1 gang switched socket

code	pack
ESS1WH	1



13Amp DP 2 gang switched socket

code	pack
ESS2WH	1

Twin sockets are supplied with two earth terminals



13Amp DP 2 gang switched socket (front fix)

code	pack
ESS3WH	1



13Amp DP 1 gang vertical mount switched socket

code	pack
ESS11WH	1

Note: For use in PowerPoles, Posts and vertical trunking runs



Accessory box spacer

code	size	pack
ES1WH	14mm	4

For use between accessory boxes

ACCESSORY BOXES, PLATES AND ENCLOSURES

VOICE AND DATA

Voice and data plates that incorporate apertures to accommodate LJ6C outlets.

Product information

- Flush mounting plates
- Standard LJ6C accessories with 22 x 37mm apertures

Standard Colour
WH
WH: White

Colour options: optional colours and finishes are available but these may be subject to minimum quantity orders and longer lead times. For more information contact the Technical Team on +44 (0)1424 856688.



Flush module

code	description	pack
EM116WH	1 x 6c	1

Flush module

code	description	pack
EM126WH	2 x 6c	1



Accessory box spacer

code	size	pack
ES1WH	14mm	4

For use between accessory boxes

Components Boxes with flush plates

ACCESSORY BOXES, PLATES AND ENCLOSURES

Not only are we reducing landfill;
MANUFACTURING FROM RECYCLED PVC-U REDUCES CARBON EMISSIONS BY 20 TIMES VS VIRGIN MATERIAL

REASSURINGLY RECYCLED



ACCESSORY BOXES

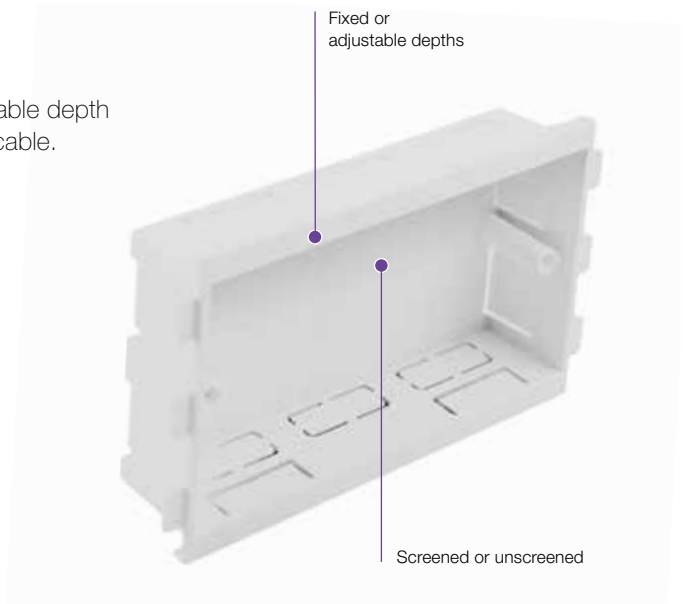
A range of standard and screened options, including adjustable depth boxes that are particularly suitable for data or 4mm² power cable.

Product information

- Accept standard UK accessories
- Standard screw fixing centres
- Adjustable depth
- Part M compliance (see page 54)

Standard Colour
WH
WH: White

Colour options: optional colours and finishes are available but these may be subject to minimum quantity orders and longer lead times. For more information contact the Technical Team on +44 (0)1424 856688.



Boxes for UK accessories

ACCESSORY BOXES, PLATES AND ENCLOSURES



1 gang accessory box

code	depth	pack
ESSB1WH	30mm	20



2 gang accessory box

code	depth	pack
ESSB2WH	30mm	10



1 gang adjustable depth box

code	depth	pack
EAB1WH	32 – 47mm	10



2 gang adjustable depth box

code	depth	pack
EAB2WH	32 – 47mm	5



1 gang accessory box *Screened

code	depth	pack
ESSB1SWH*	30mm	20

*Screened boxes supplied complete with earth terminal



2 gang accessory box *Screened

code	depth	pack
ESSB2SWH*	30mm	10

*Screened boxes supplied complete with earth terminal



1 gang accessory plate

code	pack
ESSP1WH	2



2 gang accessory plate

code	pack
ESSP2WH	2

Part M

For boxes that meet the requirements of Part M (DDA) please refer to page 54.



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Technical Information

INTERNATIONAL ACCESSORY BOXES

A range of trunking accessory boxes and mounting plates that accept international standard accessories

Product information

- MTOP10 and 20 and ETOP10, 20 and 30 plates accept Legrand's 45mm range of outlets
- MTOP11 and 21 and ETOP11, 21 and 31 plates are for Ave sockets
- ETOP180 accepts standard US and international outlets

Standard Colour
WH
WH: White

Colour options: optional colours and finishes are available but these may be subject to minimum quantity orders and longer lead times. For more information contact the Technical Team on +44 (0)1424 856688.



ETOP faceplates can be inserted directly into trunking base profiles without the need for an accessory box



1 gang 45mm accessory plate

code	aperture	pack
ETOP10WH	45 x 45mm	20
ETOP11WH	50 x 45mm	20



2 gang 45mm accessory plate

code	aperture	pack
ETOP20WH	90 x 45mm	15
ETOP21WH	100 x 45mm	10



3 gang 45mm accessory plate

code	aperture	pack
ETOP30WH	135 x 45mm	10
ETOP31WH	150 x 45mm	10



Duplex 83.5mm accessory plate

code	depth	pack
ETOP180WH	2mm	15



1 gang surface mount outlet plate

code	aperture	pack
MTOP10WH	45 x 45mm	30
MTOP11WH	50 x 45mm	30



2 gang surface mount outlet plate

code	aperture	pack
MTOP20WH	90 x 45mm	20
MTOP21WH	100 x 45mm	20

MTOP faceplates

1 gang plates require ESSB1 boxes.

2 gang plates require ESSB2 boxes.



1 gang schuko accessory box

code	depth	pack
ESSBU1WH	40mm	10



2 gang schuko accessory box

code	depth	pack
ESSBU2WH	40mm	5

CONDUIT SYSTEMS

Round and oval PVC-U conduit systems and fittings and MT Supertube, a high impact alternative to steel conduit suitable for installation where LSOH and EMC are a requirement.

ROUND CONDUIT AND FITTINGS

Round conduit made from super high impact self-extinguishing PVC-U.

Product information

Conduit

- Light or heavy gauge options
- Meet requirements for BS 4607, BS EN 61386-1:2008, BS EN 61386-21:2004+A11:2010 and BS EN 61386-25:2011 where applicable

Boxes

- Provision for MET1 brass earth terminal
- All boxes have threaded brass inserts



Light and heavy gauge options

REASSURINGLY RECYCLED OUR WHITE CONDUIT LENGTHS ARE MANUFACTURED USING OVER 95% RECYCLED MATERIAL.

Standard Colours		
WH	BK	RD*
WH: White BK: Black RD: Red		

Colour code suffix: to indicate the finish you require, add the required colour code to the end of the product code.

*Selected items only are available in red as indicated in the product details below.

CONDUIT SYSTEMS

Light & heavy gauge



Light gauge

code	O.D	pack
CR2WH	20mm	30 x 3m
CR3WH	25mm	30 x 3m
CR4WH	32mm	10 x 3m
CR9WH	38mm	10 x 3m
CR10WH	50mm	10 x 3m

Heavy gauge

code	O.D	pack
CR6WH*	20mm	30 x 3m
CR7WH	25mm	30 x 3m
CR8WH	32mm	10 x 3m
CR11WH	38mm	10 x 3m
CR12WH	50mm	10 x 3m

*Red is available as standard colour.

Don't forget, Firefly clips to comply with the current edition of BS 7671 Wiring Regulations - see page 141

Round conduit fittings



Expansion couplers

code	size	pack
MEC2WH	20mm	25
MEC3WH	25mm	10

Should be fitted over a clear gap between two round rigid conduits

Straight couplers

code	size	pack
MC2WH*	20mm	100
MC3WH	25mm	50
MC4WH	32mm	25
MC5WH	38mm	10
MC6WH	50mm	10

*Red is available as standard colour.

Reducers

code	size	pack
MR2WH	25 x 20mm	50

Plastic plugs – red only (for heavy gauge conduit)

code	size	pack
MPP2	20mm	100
MPP3	25mm	100
MPP4	32mm	50



Inspection elbows

code	size	pack
MI2WH	20mm	20

For 25mm size use Inspection Bend



Inspection bends

code	size	pack
MIB2WH	20mm	20
MIB3WH	25mm	20



Inspection tees

code	size	pack
MIT2WH	20mm	20
MIT3WH	25mm	20



Plain bends

code	size	pack
MNB2WH	20mm	25
MNB3WH	25mm	10
MNB4WH	32mm	20
MNB5WH	38mm	5
MNB6WH	50mm	2



Adaptors (Female thread)

code	size	pack
MAB2WH*	20mm	100
MAB3WH	25mm	50
MAB4WH	32mm	25
MAB5WH	38mm	15
MAB6WH	50mm	10

*Red is available as standard colour.



Adaptors (Male thread)

code	size	pack
MA7WH*	20mm	100
MA8WH	25mm	50

*Red is available as standard colour.



Adaptors (Clip-in spout)

code	size	pack
MCA2WH*	20mm	100

*Not available in black



Male bushes

code	size	pack
MMB2WH	20mm	100
MMB3WH	25mm	100
MMB4WH	32mm	25
MMB5WH	38mm	10
MMB6WH	50mm	10



Threaded lockrings

code	size	pack
MLR2WH	20mm	100
MLR3WH	25mm	50



Round 'U' clips

code	size	pack
MMC2WH	20mm	100
MMC3WH	25mm	50
MMC4WH	32mm	25



Strap saddles

code	size	pack
MSS2WH*	20mm	100
MSS3WH*	25mm	100
MSS4WH	32mm	50
MSS5WH	38mm	25

*Not available in black.



Spacer bar saddles

code	size	pack
MSB2WH*	20mm	100
MSB3WH	25mm	100
MSB4WH	32mm	50
MSB5WH	38mm	10
MSB6WH	50mm	10

*Red is available as standard colour.



Spacer bar snap saddle

code	size	pack
MSBS2WH	20mm	100



Threaded cable gland

code	size	cable size	pack
MCG2WH*	20mm	ø7-10.5	100
MCG3WH*	25mm	ø8-13	25

*Not available in black.



Locknuts (for use with cable glands)

code	size	pack
MLN2WH	20mm	100
MLN3WH	25mm	25
MLN4WH	32mm	10



Plain body cable gland

code	conduit	cable size	pack
MCGP2WH*	20mm	ø7-10.5	25

*Red is available as standard colour.

*Not available in black.



Conduit to mini adaptor

code	size	pack
TAC1/2WH	MMT1/20mm round	20



Loop-in boxes

code	size	pack
2MRB12WH	4 x ø20mm KO	20
3MRB12WH*	2 x ø25mm KO	20

*Not available in black.



Terminal

code	size	pack
2MRB2WH*	20mm	20
3MRB2WH	25mm	20

*Red is available as standard colour.



Through

code	size	pack
2MRB3WH*	20mm	20
3MRB3WH	25mm	20

*Red is available as standard colour.

Circular boxes

PVC-U plain bored circular boxes are suitable for suspending loads of up to 3kg centrally at 60°C maximum. Fixing centres are at 50.8mm and fitted with M4 brass inserts.



Angle

code	size	pack
2MRB4WH*	20mm	20
3MRB4WH	25mm	20

*Red is available as standard colour.



Tee

code	size	pack
2MRB5WH	20mm	20
3MRB5WH	25mm	20



4-way

code	size	pack
2MRB6WH	20mm	20
3MRB6WH	25mm	10



Branch 2-way or U

code	size	pack
2MRB13WH*	20mm	20
3MRB13WH	25mm	20

*Red is available as standard colour.
*Not available in black.



Branch 3-way or Y

code	size	pack
2MRB14WH	20mm	20
3MRB14WH	25mm	20



Twin through way or H

code	size	pack
2MRB15WH*	20mm	20
3MRB15WH*	25mm	10

*Not available in black.



Back outlet

code	size	pack
2MRB1WH*	20mm	20
3MRB1WH*	25mm	10

*Not available in black.



Terminal/back outlet

code	size	pack
2MRB7WH*	20mm	20
3MRB7WH	25mm	10

*Not available in black.



Circular rubber gasket

code	size	pack
MRG1	66mm diam	100

Black only



Circular lids

code	size	pack
MCL1WH*	flush fitting (65mm diam)	100
MCL2WH	overlapping (85mm diam)	100

*Red is available as standard colour.



Circular extension rings

code	size	pack
MER1WH	12mm	20
MER2WH*	20mm	20
MER3WH*	25mm	20
MER4WH*	32mm	20
MER5WH*	38mm	10

Circular extension rings have two lugs fitted with M4 brass inserts and two plain bored lugs

*Not available in black

Square adaptable boxes



Terminal

code	size	pack
4SJB1WH	32mm	1

Not available in black



Through

code	size	pack
4SJB2WH	32mm	1

Not available in black



Angle

code	size	pack
4SJB3WH	32mm	1

Not available in black



Tee

code	size	pack
4SJB4WH	32mm	1

Not available in black



Four-way

code	size	pack
4SJB5WH	32mm	1

Not available in black

Square boxes

PVC-U square adaptable boxes have 32mm or 38mm entries. Boxes have a 75 x 75 x 60mm internal size.



***Conduit solvent cement**

code	pack
MSC	1x250ml

*Child resistant lid

HEALTH & SAFETY DATA SHEETS ARE AVAILABLE FROM www.marshall-tufflex.com AND IN THE INTEREST OF SAFETY, THE SOLVENT CEMENTS ARE REGISTERED WITH THE NATIONAL POISON INFORMATION SERVICE

Surface mounted



1 gang - square corners

code	depth	pack
*MSSB10KWH	32mm	20
MSSB17KWH	44mm	10

*Red is available as standard colour
Not available in black



2 gang - square corners

code	depth	pack
MSSB11KWH	32mm	10
MSSB23KWH	44mm	5

Not available in black



1 gang - radius corners

code	depth	pack
MSSB19KWH	32mm	20
MSSB40KWH	44mm	10

Not available in black



2 gang - radius corners

code	depth	pack
MSSB21KWH	32mm	10
MSSB41KWH	44mm	5

Not available in black

All standard surface boxes have 20mm KOs

Flush mounted



1 gang - adjustable lug

code	depth	pack
MSSB1WH	35mm	12
MSSB47WH	47mm	10

Entries: 2 x ø20mm on each of 4 sides (MSSB1 and MSSB47)
Not available in black



2 gang - adjustable lug

code	depth	pack
MSSB3WH	35mm	6

Entries: 4 x ø20mm on horizontal sides, 2 x ø20mm on vertical sides
Not available in black

Surface and flush mounted boxes

Surface mount boxes

1 gang = 87 x 87mm with 60.3 fixing centres
2 gang = 147 x 87mm with 120.6 fixing centres

Flush mount boxes

1 gang = 74 x 74mm with 60.3 fixing centres
2 gang = 134 x 74mm with 120.6 fixing centres

Cover plates



1 gang - flat

code	depth	pack
MSCP2WH	2mm	20

Size: 86 x 86mm O/A
Not available in black



2 gang - flat

code	depth	pack
MSCP3WH	2mm	10

Size: 86 x 146mm O/A
Not available in black

Accessories



Bending spring heavy gauge (green end)

code	conduit size	pack
MBSH2	20mm	1
MBSH3	25mm	1
MBSH4	32mm	1
MBSH5	38mm	1
MBSH6	50mm	1



Bending spring light gauge (white end)

code	conduit size	pack
MBSL2	20mm	1
MBSL3	25mm	1
MBSL4	32mm	1



Nylon draw tape

code	pack
MDT10	1 x 10m
MDT20	1 x 20m
MDT30	1 x 30m



Channel (white only)

code	dimensions	pack
ECC21WH	12 x 8mm	50 x 2m
ECC22WH	25 x 8mm	50 x 2m
ECC23WH	38 x 9mm	50 x 2m



PVC pipe cutter

code	pack
MTPC42	1



Brass earthing terminal

code	rating	pack
MET1	15Amp	100



Corrugated conduit (polypropylene)

code	O.D	pack
CC2000WH	20mm	1 x 50m
CC2500WH	25mm	1 x 50m

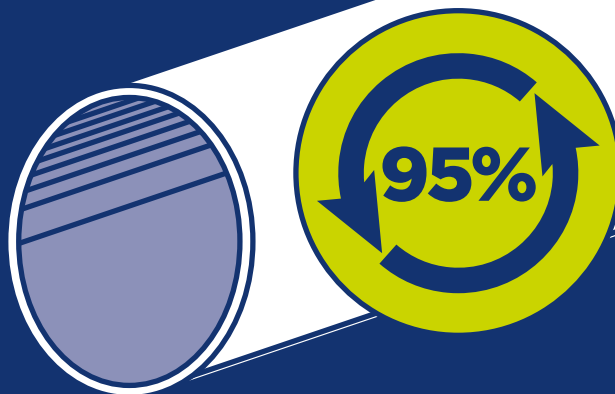


Straight adaptors (nylon)

code	size	pack
CC2010WH	20mm	25
CC2510WH	25mm	25

Corrugated conduit

OUR WHITE CONDUIT LENGTHS ARE MANUFACTURED USING OVER 95% RECYCLED MATERIAL



REASSURINGLY RECYCLED

OVAL CONDUIT AND FITTINGS

PVC-U oval conduit and fittings are typically used to protect cables buried in shallow voids or chased into walls. Oval conduit is made from super high impact PVC-U.



Product information

- Low depth conduit
- PVC-U conduit is a recyclable material
- PVC-U is a non-flame propagating material
- The range exceeds BS and EN standards

Standard Colour
WH
WH: White

Oval conduit and fittings



Oval conduit

code	O.D	dimensions	pack
EC016WH	13mm	13 x 8mm	50 x 3m
EC017WH	16mm	16 x 10mm	50 x 3m
EC018WH	23mm	23 x 11mm	50 x 3m
EC019WH	29mm	29 x 11mm	20 x 3m
EC020WH	32mm	32 x 11mm	20 x 3m

Oval clips

code	size	pack
MOC1WH	13mm	100
MOC2WH	16mm	100
MOC3WH	23mm	100
MOC4WH	29mm	100
MOC5WH	32mm	100



Oval connector

code	size	pack
MOCC20WH	23mm	25

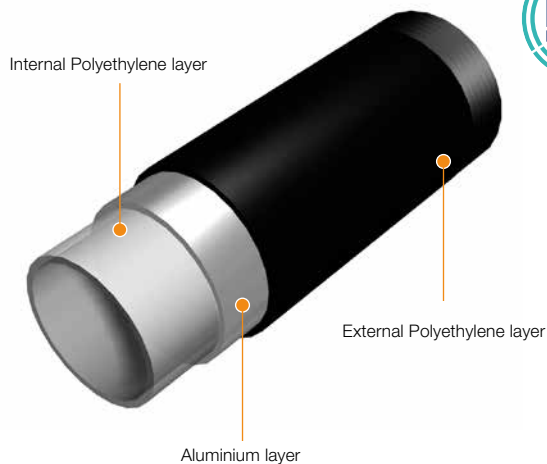
Oval to round adaptors

code	size	pack
MOR2WH	23mm oval/ ø20mm	50

CONDUIT SYSTEMS

MT SUPERTUBE

MT Supertube is a unique, LSOH, 3-layer heavy gauge conduit comprising polyethylene internal and external layers over a continuous aluminium tube that provides additional mechanical strength. MT Supertube has excellent EMI screening performance and is a practical and cost-saving alternative to standard galvanised conduits.



Product information

- Ø20mm and Ø25mm
- LSOH conduit
- Excellent screening performance
- Suitable for rail, marine and tunnel applications
- ZERO WASTE: available in continuous lengths of up to 100 metres, meaning fewer fittings per installation
- Longer lengths also prevent ingress of water
- Extra security from data interference
- Suitable for in-screed applications
- Withstands temperatures from -45°C to +120°C
- Nail penetration: MT Supertube complies with requirements of the current version of BS 7671, BS EN 61386-1:2008
- BS 8436 is specification for 300/500V screened electric cable

Note: Allowance must be made for earthing the trunking system to comply with the current version of the BS 7671 Wiring Regulations.

MT SUPERTUBE is a time saving alternative to galvanised steel conduit.
See page 135 for the MT Supertube cost and labour saving comparison.

Standard Colours	
WH	BK
WH: White BK: Black	

Colour code suffix: to indicate the finish you require, add the required colour code to the end of the product code.

FIRE SECURITY
MT Supertube FR Plus
MT Supertube is available to meet the requirements of LUL (London Underground Ltd) engineering standard 2-01001-002:issue A1, material classification EQ/1 (equipment/limited and dispersed).
*Please note MT Supertube FR Plus is not a standard stock item and therefore lead times and minimum order quantities will apply.
Please contact our Technical Team for a quotation on +44 (0)1424 856688.

CONDUIT SYSTEMS

Coils and lengths



MT Supertube conduit

code	size	pack
22003WH	20mm	30 x 3m
22503WH	25mm	30 x 3m

MT Supertube coils

code	size	pack
22010BK	20mm	1 x 100m
22505BK	25mm	1 x 50m

Tools



Tube cutter

code	size	pack
20001	20-25mm	1

Stripping tool (pre-set)

code	size	pack
20002	20-25mm	1

Compact tube bender

code	size	pack
20003	20-25mm	1



Fittings (metal)



Female adaptor with brass bush

code	size	pack
22077BK	20mm	10
22577BK	25mm	10



Coupler

code	size	pack
22079BK	20mm	10
22579BK	25mm	10

Boxes (metal)



Terminal box

code	size	pack
22072BK	20mm	10
22572BK	25mm	10



Tee box

code	size	pack
22075BK	20mm	10
22575BK	25mm	10



Through box

code	size	pack
22073BK	20mm	10
22573BK	25mm	10



Angle box

code	size	pack
22074BK	20mm	10
22574BK	25mm	10



Flush lid

code	pack
20007BK	1

MT Supertube EMI protection boxes and fittings

- Provision to accept a 4mm earthing screw
- All boxes supplied with conduit retaining screw
- All boxes are designed to comply with the current version of BS 7671 Wiring Regulations
- Taper push-fit conduit entry
- Fittings are available in black and white

Case Study

Tate Modern's new extension, the £260m Switch House, required a highly creative approach to the installation of electrical services in a concrete core that rises through the centre of the 10-storey building.

Contractors REL Building Services ruled out the use of traditional galvanised conduit as too costly and unworkable, opting instead for MT Supertube and in doing so breaking new ground in the application of the product. The cable management - carrying power, lighting, data, fire alarms, security, access control and CCTV services - was encased within the building's concrete core and delivered the architectural vision for flush-mounted electrical accessories without the use of voids for cable concealment in floors, walls or ceilings.

Steve Jamieson, REL Technical Manager, said: "Only a flexible solution like MT Supertube could have been used to deliver this installation as it allowed the team to bend lengths of conduit to fit into position around the steelwork and maximised the lengths we could use without a termination.

"MT Supertube's smooth inner surface also allows cables to be inserted using a traditional draw wire, enabling cable pulls of up to 50m in length through a tube with no fittings. This minimises the risk of cables snagging during the build or any future electrical refurbishment, which would not have been possible using a traditional galvanised conduit and fittings arrangement."

Steve Jamieson, REL Technical Manager

Fittings (polycarbonate)



Male adaptor		
code	size	pack
22042BK	20mm	25
22542BK	25mm	25



Coupler		
code	size	pack
22044BK	20mm	100
22544BK	25mm	50



Spacer bar snap saddle		
code	size	pack
22051BK	20mm	100



Spacer bar saddle		
code	size	pack
22552BK	25mm	100



U-clip		
code	size	pack
22053BK	20mm	100
22553BK	25mm	50



Inspection elbow		
code	size	pack
22045BK	20mm	20



Inspection bend		
code	size	pack
22546BK	25mm	20



Inspection tee		
code	size	pack
22047BK	20mm	20
22547BK	25mm	20



Sealant		
code	size	pack
20006	50ml	1x50ml

HEALTH & SAFETY DATA SHEETS ARE AVAILABLE FROM www.marshall-tufflex.com AND IN THE INTEREST OF SAFETY, THE SOLVENT CEMENTS ARE REGISTERED WITH THE NATIONAL POISON INFORMATION SERVICE

Boxes (polycarbonate)



Loop-in box		
code	size	pack
22011BK	2 x ø20mm KO	20
22511BK	2 x ø25mm KO	20



Terminal box		
code	size	pack
22012BK	20mm	20
22512BK	25mm	20



Through box		
code	size	pack
22013BK	20mm	20
22513BK	25mm	20



Angle box		
code	size	pack
22014BK	20mm	20
22514BK	25mm	20



Tee box		
code	size	pack
22015BK	20mm	20
22515BK	25mm	20



4-way box		
code	size	pack
22016BK	20mm	20
22516BK	25mm	10



Flush lid	
code	pack
20005BK	100

MT Supertube LSOH boxes and fittings

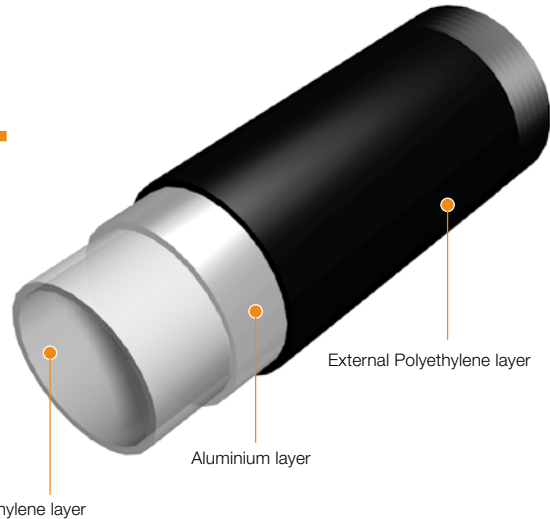
- Suitable for suspending a load of up to 3kg centrally at 60°C maximum
- Fixing centres 50.8mm fitted with M4 brass inserts
- Provision for brass earthing terminals
- Boxes comply with the current version of BS 7671 Wiring Regulations and BS 4607 where applicable
- Fittings are available in black and white

MT Supertube

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A TIME SAVING ALTERNATIVE TO GALVANISED STEEL CONDUIT

MT Supertube has a three layer Low Smoke Zero Halogen (LSOH) polyethylene and aluminium construction offering extremely good EMI cable protection and resistance to extremes of temperature and chemicals. It is lightweight yet has the strength of steel meaning it's quick to install and simple to store and carry on site.



- Combines the strength of metal with the flexibility of PVC-U conduit
- Fast installation
- Supplied in coils for easy movement around site without the need for hoists
- Assists in conforming to the EMC directive in regard to EMI shielding
- Fewer in line fittings required and minimal wastage
- Forms easily by hand and to a required radius when utilising the tube bender
- Can be buried in concrete and detected by a CAT detector
- Maintenance free



CONDUIT SYSTEMS

Contractor cost & labour saving example *(based on contractor purchase price)*

Costs calculated on using 100m of 20mm conduit with 8 off 90° bends and estimated manpower costs of £35 per hour.

Galvanised steel

Material cost @ £2.18 per metre + fittings = £229.20
 Labour @ 30mins per metre = 2 metres per hour
 50 hours @ £35 = £1750
 Galvanised steel overall costs = £1979.20

MT Supertube

Material cost @ £2.96 per metre + fittings = £322.34
 Labour @ 10mins per metre = 6 metres per hour
 16.67 hours @ £35 = £583.45
 MT Supertube overall costs = 905.79

The savings on this job amount to £1073.41

54.23% cheaper than galvanised steel

It is also possible to reduce overall project costs by using MT Supertube as it can be bent into position by hand therefore reducing the need for as many fittings.

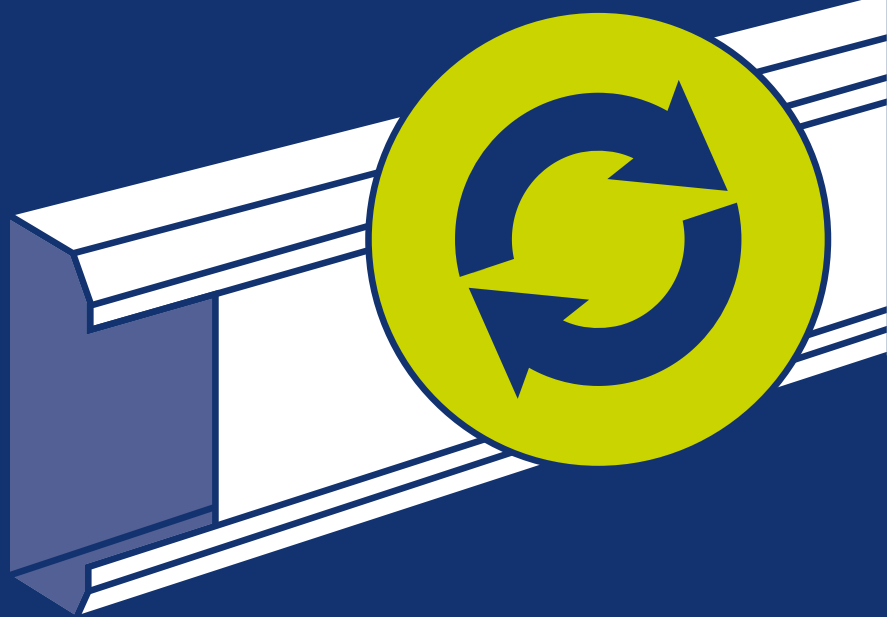
See page 132 for product ordering information.

These figures are based on Marshall-Tufflex trade list price 1st December 2018 (for MT Supertube) and quoted wholesaler prices (for galvanised steel conduit).



ALL OF OUR PVC-U PRODUCTS CAN BE RECYCLED...

Prevent PVC-U being placed into landfill by recycling our products at the end of their useful life.



FIRE AND SAFETY SYSTEMS

A range of products designed to British Standard regulations, specifically suited for wiring fire alarm systems and for protection against fire.



FIRE AND SAFETY SYSTEMS

CALLMASTER SYSTEM

Callmaster accessory boxes are designed for emergency applications including call points, smoke and heat detectors, panic alarms, warning lights, sounders and emergency stops.

Product information

- Callmaster accessory boxes come complete with both internal pot retainers for mineral insulated (MI) cables and cable clamps included for use with conventional and fire performance cable
- Pre-punched holes in MMT2 Mini trunking every 200mm for ease of installation
- Punched holes in MMT2 are positioned to be compatible with Firefly fire safety clips
- No need for cable glands and shrouds
- Available with one or two entries for terminal or through wiring
- Suitable for single or twin cable runs to each entry
- Compatible for use with MMT2/MMT3 mini trunking and CR6 round conduit

Standard Colours	
WH	RD
WH: White RD: Red	

Colour options: White solid colour options are available as standard items for selected products. Please indicate when ordering by replacing the RD colour code suffix with WH for white.



Trunking and fittings



Mini-trunking

code	size	pack
MMTH2RD	25 x16mm	30x3m
MMT3RD*	38 x16mm	15x3m

*Un-punched
See page 100 for white version



Coupler

code	description	pack
TC2RD	MMT2	40
TC3RD	MMT3	25



End cap

code	description	pack
TEC2RD	MMT2	100
TEC3RD	MMT3	50



Internal bend

code	description	pack
TIB2RD	MMT2	30
TIB3RD	MMT3	25



External bend

code	description	pack
TEB2RD	MMT2	30
TEB3RD	MMT3	25



Flat bend

code	description	pack
TFB2RD	MMT2	30
TFB3RD	MMT3	25



Equal tee

code	description	pack
TT2-2RD	MMT2	30
TT3-3RD	MMT3	25

Boxes and fittings



1G accessory box – 1 entry

code	depth	pack
MCM10RD	35mm	5

with earth terminal
For use with MMT2 mini trunking



1G accessory box – 2 entry

code	depth	pack
MCM20RD	35mm	5

with earth terminal
For use with MMT2 mini trunking



Circular accessory box

code	depth	pack
MCMR20RD	24mm	5

with earth terminal
For use with MMT2 mini trunking



1 gang – square corners

code	size	pack
MSSB116RD	32mm	25

With MMT3 mini trunking knockout
See page 103 for white version

Conduit and fittings



Heavy gauge conduit

code	O.D	pack
CR6RD	20mm	30x3m

See page 126 for white version



Straight coupler

code	size	pack
MC2RD	20mm	100



Adaptor (female thread)

code	size	pack
MAB2RD	20mm	100



Adaptor (male thread)

code	size	pack
MA7RD	20mm	100



Spacer bar saddle

code	size	pack
MSB2RD	20mm	100

Boxes and fittings



Double back entry (loop-in) 34mm internal depth

code	fix. centre	pack
MDCRB2WH	50.8mm	10

Ø cut out = 70mm
Available in white only



20mm plain body cable glands

code	cable dia.	pack
MCGP2RD	7-10.5mm	25

See page 127 for white version



Plain bored circular boxes

code	type	pack
2MRB2RD	Terminal-1E	20
2MRB3RD	Through-2E	20
2MRB4RD	Angle-2E	20
2MRB13RD	U-2E	20

For use with 20mm plain body cable glands and ø20mm conduit
See page 128 for white version



1 gang - square corners

code	size	pack
MSSB10KRD	32mm	20

With 20mm conduit knockout
See page 129 for white version



Circular lid

code	size	pack
MCL1RD	flush fitting (65mm diam.)	100

See page 128 for white version



See page 141 for Firefly fire clips for Mini trunking and Conduit

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Technical Information

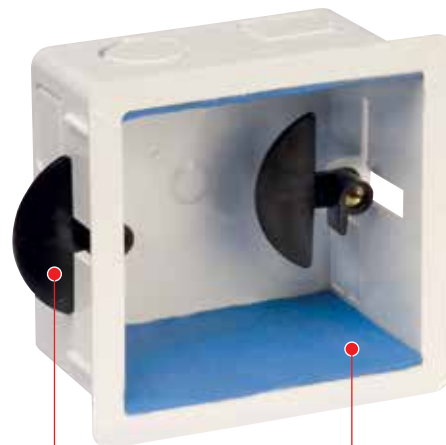
FIRE BARRIER PADS

Marshall-Tufflex dry lining boxes are available with Envirograf® intumescent (fire barrier) pads.

With fire barrier pads fitted, boxes comply with the current version of BS 7671 Wiring Regulations and Document B of the UK Building Regulations.

Snap out clamps with size identification by colour:

Wall thickness adjustment	Clamp colour
1 - 9mm	Grey
6 - 14mm	White
18 - 25mm	Green
9 - 26mm	Black



Snap out clamps

Intumescent (fire barrier) pads

Flush mounted dry lining accessory boxes



1 gang 34mm internal depth

code	adj.	pack
MDLB3FWH	1-9mm	20
MDLB1FWH	6-14mm	20
MDLB7FWH	18-25mm	20

Note: adj. = adjustment



2 gang 34mm internal depth

code	adj.	pack
MDLB4FWH	1-9mm	10
MDLB2FWH	6-14mm	10
MDLB8FWH	18-25mm	10



1 gang 46mm internal depth

code	adj.	pack
MDLB29FWH	9-26mm	10



2 gang 46mm internal depth

code	adj.	pack
MDLB30FWH	9-26mm	5

Problem



Without pads

Solution



With pads

In the event of a fire, the cover plate of a socket, switch or light fitting may sag and disintegrate, leaving a perfect escape route for a fire to travel up the cavity, into an adjoining room or ceiling. When Envirograf® pads are fitted, they will expand in the presence of heat and create an effective fire barrier. This solution has been specifically designed to help electrical contractors and building design professionals meet and comply with the current regulations.

Circular dry lining boxes



Double back entry (loop-in) 34mm internal depth

code	fix. centre	pack
MDCRB2FWH	50.8/60.3mm	10

Ø cut out = 70mm

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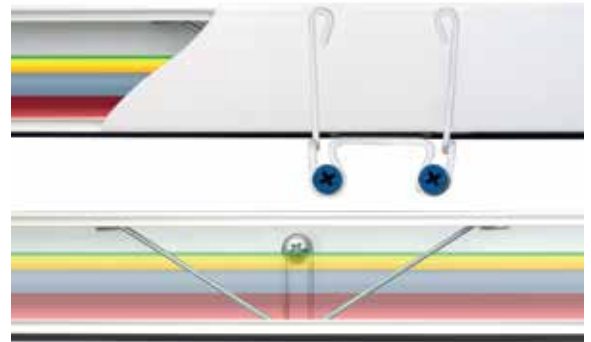
Technical Information

FIREFLY FIRE SAFETY CLIPS

To comply with the latest fire regulations, Marshall-Tufflex supply a range of Firefly fire clips to secure cables within or outside of our trunking and conduit systems. The clips are designed to secure and support cables to prevent premature collapse in the event of a fire.

Product information












- Fire safety clips to comply with BS 5839-1
- For use with mini trunking, maxi trunking, conduit and perimeter trunking
- Spring loaded design for easy installation or removal of cables
- Designed for quick installation and to maximise internal trunking space
- We recommend using the masonry or cavity screws and washers for all installations
- Internal version to fit within trunking prior to cables being installed
- External version to retrofit onto existing installations
- Melt point over 1000°C
- Kits available for mini trunking including all required fixings/screws ready for installation
- Independently tested and certified by an accredited test house
- Patent applied for



Regulations

Regulations state that Wiring Systems shall be supported such that they will not be liable to premature collapse in the event of fire. This applies to all access or egress routes not just escape routes. Firefly clips meet the requirements of BS 7671:2018 section 521.10.202 Wiring Regulations to secure all surface cables and to avoid the risk of entanglement in the event of a fire.

Mini trunking clips

			
Fire clip internal MMT2	Fire clip internal MMT3	Fire clip internal MMT4	Fire clip internal MMT5
code trunking size pack FCMMT2 25 x 16mm 100	code trunking size pack FCMMT3 38 x 16mm 100	code trunking size pack FCMMT4 38 x 25mm 100	code trunking size pack FCMMT5 50 x 25mm 100
			See page 101 for punched mini trunking
Fire clip internal MMT6	Fire clip external MMT2	Fire clip external MMT4	
code trunking size pack FCMMT6 38 x 38mm 100	code trunking size pack FCXMMT2 25 x 16mm 100	code trunking size pack FCXMMT4 38 x 25mm 100	
			
Fire clip internal kit - masonry	Fire clip internal kit - cavity	Fire clip external kit - masonry	Fire clip external kit - cavity
code size kit contents* FCKMMT2 MMT2 200 (25 x 16mm)	code size kit contents* FCKMMT2 MMT2 100 (25 x 16mm)	code size kit contents* FCXMMT2 MMT2 100 (25 x 16mm)	code size kit contents* FCXCMMT2 MMT2 50 (25 x 16mm)
FCKMMT4 MMT4 100 (38 x 25mm)	FCKMMT4 MMT4 50 (38 x 25mm)	FCXMMT4 MMT4 50 (38 x 25mm)	FCXCMMT4 MMT4 50 (38 x 25mm)

*Kit contents

Please note: the quantity stated refers to the number of fire clips within the kit, each kit also contains the appropriate number of screws.
Each Masonry kit is supplied with: Masonry screws, washers and 1 x Ø4mm drill bit
Each Cavity kit is supplied with: Cavity fixings and screws

FIRE AND SAFETY SYSTEMS

Conduit trunking clips



Fire clip 20mm round conduit

code	pack
FCCR20	100



Fire clip 25mm round conduit

code	pack
FCCR25	100



NEW

Fire clip 20mm conduit strap

code	colour	pack
FCCRC20WH	white	50
FCCRC20BK	black	50



NEW

Fire clip 25mm conduit strap

code	colour	pack
FCCRC25WH	white	50
FCCRC25BK	black	50



NEW

Fire clip 32mm conduit strap

code	colour	pack
FCCRC32WH	white	50
FCCRC32BK	black	50

Maxi trunking clips



Fire clip internal MTRS50

code	trunking size	pack
FCMTRS50	50 x 50mm	50



NEW

Fire clip internal MTRS75/50

code	trunking size	pack
FCMTRS75/50	75 x 50mm	50



NEW

Fire clip internal MTRS75

code	trunking size	pack
FCMTRS75	75 x 75mm	50



NEW

Fire clip internal MTRS100

code	trunking size	pack
FCMTRS100	100 x 100mm	50



NEW

Fire clip internal MTRS100/50

code	trunking size	pack
FCMTRS100/50	100 x 50mm	50

Fixings



NEW

Masonry screws & washers

code	pack
FCMS	100













NEW

Cavity fixings & screws

code	pack
FCCS	50

We recommend using the masonry or cavity screws and washers for all installations



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<p>Fire clip Mono 10 centre compartment</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">code</td> <td style="width: 30%;">pack</td> </tr> <tr> <td>FCM10C</td> <td>100</td> </tr> </table>	code	pack	FCM10C	100	<p>Fire clip Mono 20 centre compartment</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">code</td> <td style="width: 30%;">pack</td> </tr> <tr> <td>FCM20C</td> <td>100</td> </tr> </table>	code	pack	FCM20C	100	<p>Fire clip Twin165 large compartment</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">code</td> <td style="width: 30%;">pack</td> </tr> <tr> <td>FCT165L</td> <td>50</td> </tr> </table>	code	pack	FCT165L	50	<p>Fire clip Twin165 small compartment</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">code</td> <td style="width: 30%;">pack</td> </tr> <tr> <td>FCT165S</td> <td>100</td> </tr> </table>	code	pack	FCT165S	100
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<p>Fire clip Sterling centre compartment</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">code</td> <td style="width: 30%;">pack</td> </tr> <tr> <td>FCSPC</td> <td>50</td> </tr> </table>	code	pack	FCSPC	50	<p>Fire clip Sterling angle & curve compartment</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">code</td> <td style="width: 30%;">pack</td> </tr> <tr> <td>FCSPAC</td> <td>100</td> </tr> </table>	code	pack	FCSPAC	100	<p>Fire clip Sterling square compartment</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">code</td> <td style="width: 30%;">pack</td> </tr> <tr> <td>FCSPS</td> <td>100</td> </tr> </table>	code	pack	FCSPS	100	<p>Fire clip Odyssey centre compartment</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">code</td> <td style="width: 30%;">pack</td> </tr> <tr> <td>FCOC</td> <td>50</td> </tr> </table>	code	pack	FCOC	50
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<p>Fire clip Odyssey outer compartment</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">code</td> <td style="width: 30%;">pack</td> </tr> <tr> <td>FCOO</td> <td>100</td> </tr> </table>	code	pack	FCOO	100	<p>Fire clip Twin Plus</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">code</td> <td style="width: 30%;">pack</td> </tr> <tr> <td>FCTP</td> <td>50</td> </tr> </table>	code	pack	FCTP	50										
code	pack																		
FCOO	100																		
code	pack																		
FCTP	50																		

Please use the table below to determine which clips are required for your perimeter trunking installation.

	Number of compartments in trunking	Outer Compartment 1 (top)	Centre Compartment	Outer Compartment 2 (bottom)
Mono 10	1	-	FCM10C	-
Mono Plus 20	1	-	FCM20C	-
Twin165	2	FCT165S	FCT165L	-
Sterling Profile 1	3	FCSPAC	FCSPC	FCSPAC
Sterling Profile 2	3	FCSPAC	FCSPC	FCSPS
Sterling Profile 3	3	FCSPS	FCSPC	FCSPS
Sterling Curve Profile 1	3	FCSPAC	FCSPC	FCSPAC
Sterling Curve Profile 2	3	FCSPAC	FCSPC	FCSPS
Odyssey	3	FCOO	FCOC	FCOO
Twin Plus	2	-	2 x FCTP	-

Please refer to BS 7671:2018 for distance required between clips.



WE USE RECYCLED WINDOWS TO CREATE CABLE MANAGEMENT PRODUCTS.

FIRE AND SAFETY SYSTEMS



INSTALLER ITEMS

A range of useful items designed with installers in mind, for improved health and safety on site.



INSTALLER ITEMS

CABLE CATCHERS

Cable Catchers are designed to elevate trailing cables off the floor, removing potential trip hazards from building sites and thus improving health and safety conditions for construction workers. Our range includes hangers for suspending from scaffolding and tray, plus hooks and patches for walls and ceilings.

What the HSE say

The HSE state that several thousand construction workers are injured each year following a trip or slip whilst at work on a building site. Most could be avoided by the effective management of working areas and access routes.

www.hse.gov.uk/construction/safetytopics

Patch grades



Cable Catcher Patch Grade 1

- Designed for unfinished surfaces such as concrete, steel and timber
- Holds up to 6 x 1.5mm 110v arctic cables
- Max load 2kg
- Heavy duty adhesive foam backing
- Space every 2 metres

code	pack
MTCC4	10



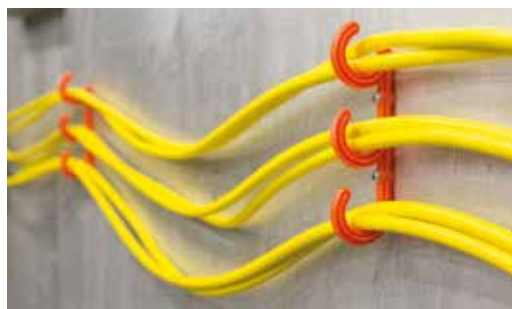
Cable Catcher Patch Grade 2

- Designed for finished surfaces – plastered / painted walls, drywall and glass
- Holds up to 6 x 1.5mm 110v arctic cables
- Max load 1kg
- Stretch off, damage-free adhesive backing
- Space every 2 metres
- Can be screwed to the wall if required

code	pack
MTCC2	10

INSTALLER ITEMS

Hangers and Hooks



Cable Catcher Hanger

- Holds up to 9 x 1.5mm 110v arctic cables
- Max load 5kg
- Hang from scaffolding, cable trays, ceiling grids and other secure overhead features
- Space every 2 metres
- Ideal for holding up temporary lighting
- Can be screwed to the wall if required

code	pack
MTCC1	10



Cable Catcher Hook

- Holds up to 9 x 1.5mm 110v arctic cables
- Max load 10kg
- Use on wall & ceilings
- Space every 2 metres
- Screw to the surface

code	pack
MTCC3	10

TUFF N SMOOTH PVC-U WIPES

Heavy duty wipes for eliminating marks, scuffs and grime whilst leaving no residue. Extra absorbent, extra soft, extra tuff.



HANDS



SURFACES



TOOLS



PVC-U

Product information

- Heavy duty wipes for PVC-U, tools, surfaces and hands
- Pre-moistened so no need for water
- Extra-large wipe size for greater volume wiping tasks – 20 x 30cm in size
- Made from spunlace, extra absorbent, extra soft, extra tuff for liquid spills and faster cleaning
- Hand safe – contains aloe vera for keeping hands moisturised
- Anti-bacterial
- Conforms with EC1223/2009 Cosmetic Directive

Tuff n Smooth wipes remove the below and more:

- Fast removal of semi-cured silicone sealant and decorators caulk
- Oils and greases
- Adhesives
- Water-based paints
- Inks
- Expanding foam



INSTALLER ITEMS

PVC-U wipes



Tuff n Smooth Wipes

code	pack
MTW1	8

Contact our team Our office opening hours are 8am to 5pm Monday to Friday

Customer Services

+44 (0)1424 856600

sales@marshall-tufflex.com

Technical Services

+44 (0)1424 856688

technical@marshall-tufflex.com

Technical support

Our Technical Team consists of qualified Electricians, Electrical and Mechanical Engineers with many years experience of cable management installations including an understanding of the regulations and compliancy to standards in both domestic and commercial sectors. The team can advise on a wide range of solutions and technical issues, product standards, data cabling control and Part M compliancy.

We pride ourselves on providing and supplying our customers with specialist solutions to suit a variety of needs and the team's expertise enables us to provide quotations for specialist solutions. We aim to complete all standard quotes within 1 working day, although more complex quotations such as 'take offs' can take longer.



First class customer service

Our Customer Service Team are on hand to advise on stock availability, lead times, delivery schedules and order fulfilment.



BIM (Building Information Modelling)

3D Autodesk Revit models are now available to download for Marshall-Tufflex products, with the necessary technical product data for them to be easily specified and integrated into a construction project.

Visit www.marshall-tufflex.com or www.bimstore.co.uk



Same day collection*



Our popular same day collection service gives our customers an unrivalled two-hour turnaround on product orders, allowing them to collect from our dedicated collection points in Manchester and London. Orders can also be collected next day from our Hastings depot.

Manchester

Europa Trading Estate, Stoneclough Road, Radcliffe, Manchester M26 1GG

London

101c Blackhorse Lane, London E17 6DJ

- Orders can be collected two hours after order placement from Manchester and London.
- Orders received by 5pm will be ready for collection from 10am the following day.

Hastings

55-65 Castleham Road, St Leonards-on-Sea TN38 9NU

- Orders placed by 12.30pm can be collected from 10am the next day from our Hastings depot.

* Subject to stock availability



Follow us on
Twitter @MTufflex

For details regarding collections, please contact our Customer Services team on +44 (0)1424 856600 or email sales@marshall-tufflex.com

ALUMINIUM TRUNKING SYSTEMS

Aluminium cable containment is an excellent choice of material for office areas that need a stylish but mechanically robust trunking and for industrial, workshop and laboratory installation, particularly where a high quality of screening performance is required.

ALUMINIUM TRUNKING SYSTEMS

The physical properties of aluminium offer the building industry a high quality material that is ideally suited for internal cable management distribution. Aluminium is light to handle with high mechanical strength and impact-resistance. Extruded sections provide attractive profiles and products are finished with a high quality, powder-coat that provides a blemish-resistant surface.

Aluminium perimeter trunking systems provide the specifier, contractor and end-user with elegant, stream-lined containment that offers the practical advantages of inherent LSOH (low smoke zero halogen) and screening properties. Aluminium is an excellent choice for office and educational areas requiring a stylish yet robust trunking system, particularly effective where a high quality of screening performance and security is required.

Marshall-Tufflex offer a wide range of multi-compartment aluminium trunking in different heights, designs, cable capacities and numbers of compartments so whatever the requirements, there will always be a perfect solution with Marshall-Tufflex.

Choose the UK's number one in cable management.

Standard colour

The standard colour for each Marshall-Tufflex range is shown within each relevant product information section, although silver grey 9006 is our most popular colour option in aluminium trunking.

The below table identifies the relevant RAL colour reference for all our standard colour options, dependent on product range. We would be happy to quote for any other colour requirements, please see the Special colours section below.

Standard Colours	
WH	SG
WH: White	SG: Silver Grey

Material	Standard colour	Colour code suffix	RAL
Aluminium	Silver Grey	SG	9006
	White	WH	9016

Please note: it is dependent on the product range as to which colour is available as standard.

Special colours

To help enhance the style of an installation, different variations of solid colour are sometimes required.

We can provide special colours in a painted solution dependent on your client's preference. All special colour requirements will need to be specified as a RAL colour.

These colours are made to order and therefore are subject to set up charges and a longer lead time. For more information and a quotation contact our Technical Team on +44 (0)1424 856688.



Please note: due to different processes and materials utilised, it may not always be possible to obtain an exact colour match between the extruded and moulded product.

Environmental & sustainability



- Aluminium is naturally found combined in over 270 different minerals, the chief source of which is bauxite ore.
- Its light weight means less strain on supporting structures, easier handling and reduced transport costs.
- 100% recyclable material and can be recycled many times without loss of quality.
- Recycling facilities are well established.

EMI protection



- First class EMI screening performance especially at higher frequencies.

Fire performance



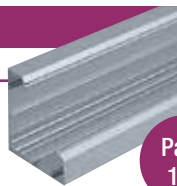
- Aluminium systems specified with polycarbonate fittings meet accepted requirements for LSOH.
- Withstands high temperatures with a melting point of 655°C (1211°F).
- Polycarbonate fittings are fire rated to UL94 V0.

Aluminium systems are available with standard powder coat finishes in white RAL 9016 or silver-grey RAL 9006*. For other finishes, please call our Technical Team on +44 (0)1424 856688.

Bench trunking

105 x 105mm

Desk and laboratory trunking.



Page 152

Sterling Curve Profile 1

167 x 50mm

A stylish curved three compartment dado trunking system designed to stop clutter, avoid dust traps and to make cleaning easy.



Page 160

*Only available in silver-grey RAL 9006 as standard.

Elegance 110

110 x 55mm

Dado and skirting trunking with a single cover.



Page 154

Sterling Curve Profile 2

167 x 50mm

A stylish curved three compartment skirting trunking system designed to stop clutter, avoid dust traps and to make cleaning easy.



Page 160

*Only available in silver-grey RAL 9006 as standard.

Sterling Profile 1

167 x 50mm

Dado trunking with three separate compartments and individual covers for each compartment.



Page 156

Elegance 170

170 x 55mm

A single cover "C" style trunking that can be sub-divided if required giving the installer versatility and added capacity. Can be used at dado and skirting level.



Page 165

*Only available in silver-grey RAL 9006 as standard.

Sterling Profile 2

167 x 50mm

Skirting trunking with three separate compartments and individual covers for each compartment.

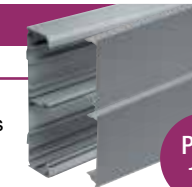


Page 156

Twin Plus

210 x 57mm

Large capacity dado and skirting trunking with two deep compartments with in-built segregation of power and data.



Page 167

*Only available in silver-grey RAL 9006 as standard.

Sterling Profile 3

167 x 50mm

Dado and skirting trunking with three separate compartments and individual covers for each compartment.

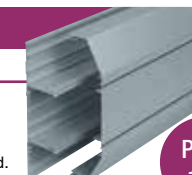


Page 156

XL301

220 x 65mm

Dado trunking with three deep compartments.



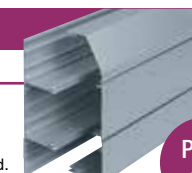
Page 170

*Only available in silver-grey RAL 9006 as standard.

XL302

220 x 65mm

Skirting trunking with three deep compartments.



Page 170

*Only available in silver-grey RAL 9006 as standard.

Note: you may use the rule on the left of this page to check profile sizes.

BENCH TRUNKING ALUMINIUM



Bench trunking aluminium is a robust angled trunking that can be mounted directly on to desks, work benches or fitted under shelving.

Product information

- 105 x 105mm
- Suitable for desk, bench or worktop applications
- Can be subdivided
- Fully compatible with Sterling flush power and data accessories
- Aluminium systems specified with polycarbonate fittings meet accepted requirements for LSOH

Data information

- Compliant up to Cat 7a
- Adjustable data box 32-40mm
- Screened divider and data boxes

Note: Allowance must be made for earthing the trunking system to comply with the current version of the BS 7671 Wiring Regulations.



Can be subdivided

Part M

For 1 and 2 gang box assemblies with coloured flush plates to comply with Part M please refer to page 54.

#Data fittings

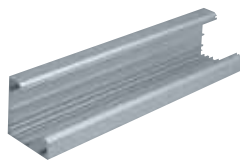
For made to order fittings to meet Cat 7a requirements please contact our Technical Team on +44 (0)1424 856688

Standard Colours	
WH	SG
WH: White	SG: Silver Grey

Colour code suffix: to indicate the finish you require, add the required colour code to the end of the product code.

ALUMINIUM TRUNKING SYSTEMS

Basic components



Base unit

code	size	pack
MBTAB105SG	105 x 105mm	1 x 3m



Cover

code	material	pack
MBTAL105SG	aluminium	1 x 3m
ETL1WH	PVC-U	8 x 3m

Aluminium base and PVC-U cover

Our PVC-U cover is compatible with our aluminium base. Order ETL1WH PVC-U cover

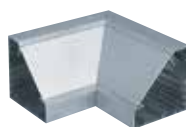
Fittings



End cap (steel)

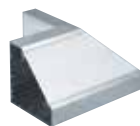
code	pack
BECA105SG	1

with fixing screws



Internal angle (aluminium)

code	pack
BIAA105SG	1



External angle (aluminium)

code	pack
BEAA105SG	1

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Technical Information

Components



Dividing fillet (PVC-U)

code	description	pack
BDF105WH	4 x 3m	



Earth bonding kit

code	description	pack
LBT3		1



Coupler pin

code	description	pack
LDP1	ø2.0 x 20mm	10



Bonding strap

code	description	pack
LBS1	base to base 32 amp	5

To aid alignment of base profiles



Bonding strap

code	description	pack
LBS2	cover to base	5



Bonding strap

code	description	pack
LBS3	end cap to base	1

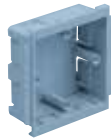
Boxes and plates (polycarbonate)



RCD/MCB housing

code	description	pack
EAHCA1MWH	polycarbonate	1

Not available in silver grey.
*Up to 4 modules can be accommodated.
Note: RCDs and MCBs are not supplied by Marshall-Tufflex.



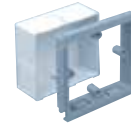
1 gang accessory box 30mm deep

code	description	pack
ESSB1SG		1
ESSBA1WH		1



2 gang accessory box 30mm deep

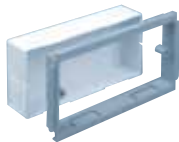
code	description	pack
ESSB2SG		1
ESSBA2WH		1



1 gang adjustable depth box

code	depth	pack
EAB1SG	32-47mm	1

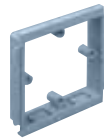
Please see page 261 for more information on the range of adjustable boxes



2 gang adjustable depth box

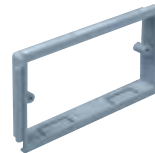
code	depth	pack
EAB2SG	32 - 47mm	1

Please see page 261 for more information on the range of adjustable boxes



1 gang accessory plate

code	description	pack
ESSP1SG		2



2 gang accessory plate

code	description	pack
ESSP2SG		2

Screened boxes



1 gang screened accessory box (polycarbonate)

code	depth	pack
ESSBA1SWH	30mm	20



2 gang screened accessory box (polycarbonate)

code	depth	pack
ESSBA2SWH	30mm	10

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to assist with screening from electromagnetic interference to data and communications cabling within trunking systems. The coating is applied to a range of data boxes, covers, clip-on components and fabricated fittings.

WARNING: A CS coating is not suitable for low voltage circuits. As per the current version of BS 7671 wiring regulations. For data/voice use only.

ELEGANCE 110 ALUMINIUM

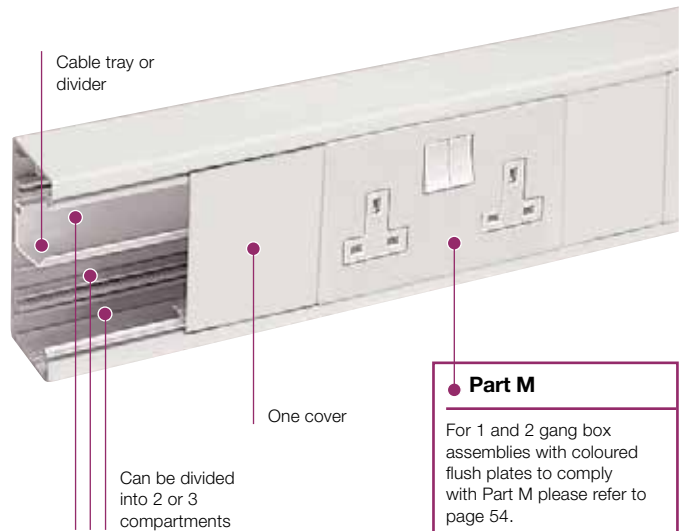
Elegance 110 aluminium is a small, rectangular, dado trunking system with a single cover. It is particularly useful for workshop or laboratory supply or in a commercial environment where extra mechanical strength is necessary.



Product information

- 110 x 55mm
- Compliant up to Cat 7a
- Can be subdivided into 2 or 3 compartments
- Suitable for dado and skirting applications
- Fully compatible with Marshall-Tufflex flush power and data accessories and standard UK wiring power and accessories
- Data compliant 25mm and 50mm bend radius
- Aluminium systems specified with polycarbonate fittings meet accepted requirements for LSOH

Note: Allowance must be made for earthing the trunking system to comply with the current version of the BS 7671 Wiring Regulations.

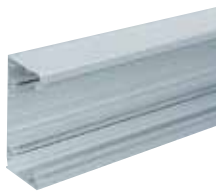


Part M

For 1 and 2 gang box assemblies with coloured flush plates to comply with Part M please refer to page 54.

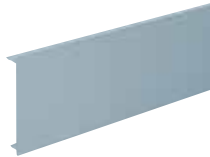
Standard Colours	
WH	SG
WH: White	SG: Silver Grey

Colour code suffix: to indicate the finish you require, add the required colour code to the end of the product code.



Base unit

code	pack
LTB2SG	1 x 3m



Main compartment cover

code	pack
LTL1SG	1 x 3m

ALUMINIUM TRUNKING SYSTEMS

Basic components

Fittings



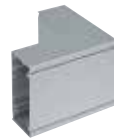
End caps (screws included)

code	pack
LECPSSG	1



Internal bend

code	pack
LIBPSSG	1



External bend

code	pack
LXPSSG	1



Flat angle

code	pack
LFASSG	1



Flat tee

code	pack
LFTSSG	1

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Technical Information

Components



Dividing fillet (PVC-U)

code	description	pack
LDF1	unscreened	8 x 3m



Dividing tray (PVC-U)

code	description	pack
EDF2		8 x 3m



Earth bonding kit

code	description	pack
LBT3		1



Coupler pin

code	description	pack
LDP1	ø2.0 x 20mm	10

To aid alignment of base profiles



Bonding strap

code	description	pack
LBS1	base to base 32Amp	5



Bonding strap

code	description	pack
LBS2	cover to base	5



Bonding strap

code	description	pack
LBS5	end cap to base	1

Boxes and plates (polycarbonate)



RCD/MCB housing

code	description	pack
EAHCA1MWH	polycarbonate	1

Not available in silver grey.
*Up to 4 modules can be accommodated.
Note: RCDs and MCBs are not supplied by Marshall-Tufflex.



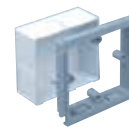
1 gang accessory box 30mm deep

code	description	pack
ESSB1SG		1
ESSBA1WH		1



2 gang accessory box 30mm deep

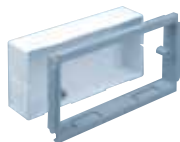
code	description	pack
ESSB2SG		1
ESSBA2WH		1



1 gang adjustable depth box

code	depth	pack
EAB1SG	32-47mm	1

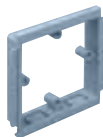
Fully adjustable to 47mm.
Please see page 261 for more information.



2 gang adjustable depth box

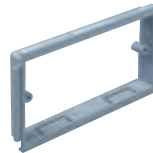
code	depth	pack
EAB2SG	32 - 47mm	1

Fully adjustable to 47mm.
Please see page 261 for more information.



1 gang accessory plate

code	description	pack
ESSP1SG		2



2 gang accessory plate

code	description	pack
ESSP2SG		2

Screened boxes



1 gang screened accessory box (polycarbonate)

code	depth	pack
ESSBA1SWH	30mm	20



2 gang screened accessory box (polycarbonate)

code	depth	pack
ESSBA2SWH	30mm	10

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to assist with screening from electromagnetic interference to data and communications cabling within trunking systems. The coating is applied to a range of data boxes, covers, clip-on components and fabricated fittings.

WARNING: A CS coating is not suitable for low voltage circuits. As per the current version of BS 7671 wiring regulations. For data/voice use only.

STERLING ALUMINIUM PROFILE 1, 2 AND 3



Sterling Aluminium Profile is a popular and stylish looking trunking system that offers a variety of trunking profiles with separate compartment covers.

Product information

- 167 x 50mm
- 3 segregated compartments
- Can be subdivided
- Suitable for dado applications
- A range of polycarbonate clip-on fittings with built-in overlaps
- Fully compatible with Sterling flush power and data accessories
- Aluminium systems specified with polycarbonate fittings meet accepted requirements for LSOH

Data information

- Compliant up to Cat 7a
- Data compliant 25mm and 50mm bend radius
- Adjustable data box 32-40mm
- Screened divider and data boxes



See page 159 for quick reference chart

Part M

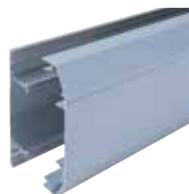
For 1 and 2 gang box assemblies with coloured flush plates to comply with Part M please refer to page 54.

Standard Colours	
WH	SG
WH: White	SG: Silver Grey

Colour code suffix: to indicate the finish you require, add the required colour code to the end of the product code.

ALUMINIUM TRUNKING SYSTEMS

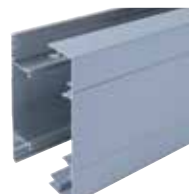
Trunking profiles



Sterling Aluminium Profile 1
size: 167 x 50mm



Sterling Aluminium Profile 2
size: 167 x 50mm

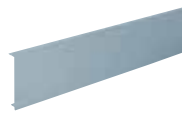


Sterling Aluminium Profile 3
size: 167 x 50mm

Basic components



Base unit
code pack
ETB300MMF* 1 x 3m



Main compartment cover
code pack
LTL1SG 1 x 3m



Angled cover
code pack
ETAC300SG 1 x 3m



Square cover
code pack
ETSC300SG 1 x 3m

*MF=Mill finish

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Technical Information

Profile 1 fittings



Profile 1 Aluminium Coupler

code	description	pack
ECP1MASG	polycarbonate	1



Profile 1 Aluminium End cap

code	description	pack
EECP1MASG	polycarbonate	1



Profile 1 Aluminium Internal bend

code	description	pack
EIBP1MASG	polycarbonate	1



Profile 1 Aluminium External bend

code	description	pack
EXBP1MASG	polycarbonate	1



Profile 1 Aluminium Flat angle - up/down

code	description	pack
EFA1ASG	aluminium	1



Profile 1 Aluminium Flat tee - up/down

code	description	pack
EFT1ASG	aluminium	1

Profile 2 fittings



Profile 2 Aluminium Coupler

code	description	pack
ECP2MASG	polycarbonate	1



Profile 2 Aluminium End cap

code	description	pack
EECP2MALHSG	polycarbonate	1
EECP2MARHSG	polycarbonate	1

LH = Left hand RH = Right hand



Profile 2 Aluminium Internal bend

code	description	pack
EIBP2MASG	polycarbonate	1



Profile 2 Aluminium External bend

code	description	pack
EXBP2MASG	polycarbonate	1



Profile 2 Aluminium Flat angle - up

code	description	pack
EFA2UASG	aluminium	1



Profile 2 Aluminium Flat angle - down

code	description	pack
EFA2DASG	aluminium	1

Sterling Profile 2 flat tees

Where profiles have one angled cover and one square cover, as with Sterling Profile 2, it is possible to create a tee by changing the top or bottom cover so that covers match the profile of the trunking. For example:

- Upward tee – select Profile 1 tee remove the angled bottom cover and replace with square cover.
- Downward tee – select Profile 3 tee remove the square top cover and replace with angled cover.

Profile 3 fittings



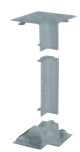
Profile 3 Aluminium Coupler 3 piece

code	description	pack
ECP3ASG	polycarbonate	1



Profile 3 Aluminium End cap 3 piece

code	description	pack
EECP3ASG	polycarbonate	1



Profile 3 Aluminium Internal bend 3 piece

code	description	pack
EIBP3ASG	polycarbonate	1



Profile 3 Aluminium External bend 3 piece

code	description	pack
EXBP3ASG	polycarbonate	1



Profile 3 Aluminium Flat angle

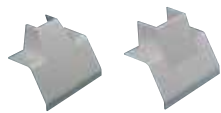
code	description	pack
EFA3ASG	aluminium	1



Profile 3 Aluminium Flat tee

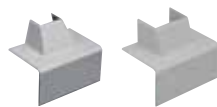
code	description	pack
EFT3ASG	aluminium	1

Fittings



Angled mini-trunking adaptor (polycarbonate)

code	Description	pack
EATA402SG	MMT2	5
EATA404SG	MMT4	1



Square mini - trunking adaptor (polycarbonate)

code	Description	pack
ESTA402SG	MMT2	5
ESTA404SG*	MMT4	1

*Not available in white

Components



Earth bonding kit

code	description	pack
LBT3		1



Coupler pin

code	description	pack
LDP1	ø2.0 x 20mm	10

To aid alignment of base profiles



Bonding strap

code	description	pack
LBS1	base to base 32Amp	5



Bonding strap

code	description	pack
LBS2	cover to base	5



Main crossover bridge (PVC-U)

code	pack
EMCB1	5



Angled cable retainer (PVC-U)

code	pack
EACR1	10

ALUMINIUM TRUNKING SYSTEMS

Boxes and plates (polycarbonate)



RCD/MCB housing

code	description	pack
EAHCA1MWH	polycarbonate	1

Not available in silver grey.
*Up to 4 modules can be accommodated.

Note: RCDs and MCBs are not supplied by Marshall-Tufflex.



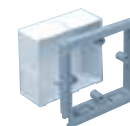
1 gang accessory box 30mm deep

code	pack
ESSB1SG	1
ESSBA1WH	1



2 gang accessory box 30mm deep

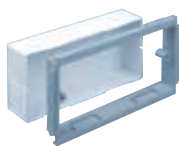
code	pack
ESSB2SG	1
ESSBA2WH	1



1 gang adjustable depth box

code	depth	pack
EAB1SG	32-47mm	1

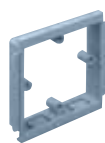
Please see page 261 for more information on the range of adjustable boxes



2 gang adjustable depth box

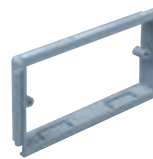
code	depth	pack
EAB2SG	32 - 47mm	1

Please see page 261 for more information on the range of adjustable boxes



1 gang accessory plate

code	pack
ESSP1SG	2



2 gang accessory plate

code	pack
ESSP2SG	2

Quick reference chart
Sterling Profile aluminium component chart

Base unit

Pack 1 x 3m
Milled aluminium



Main compartment cover

Pack 1 x 3m



Angled cover

Pack 1 x 3m



Square cover

Pack 1 x 3m



Couplers

Pack 1



End caps

Pack 1
Left or right handed



Internal bends

Pack 1
Internal base corner needs to be mitred



External bends

Pack 1
External base corner needs to be mitred



Flat angles

Pack 1
Upward or downward



† Flat tees

Pack 1
† See Flat Tee information below



3 compartment

Profile 1 167 x 50mm	Profile 2 167 x 50mm	Profile 3 167 x 50mm
ETB300MMF	ETB300MMF	ETB300MMF
LTL1SG	LTL1SG	LTL1SG
2 x ETAC300SG	1 x ETAC300SG	-
-	1x ETSC300SG	2 x ETSC300SG
ECP1MASG	ECP2MASG	ECP3ASG
EECP1MASG	EECP2MALHSG EECP2MARHSG	EECP3ASG
EIBP1MASG	EIBP2MASG	EIBP3ASG
EXBP1MASG	EXBP2MASG	EXBP3ASG
EFA1ASG	EFA2UASG EFA2DASG	EFA3ASG
EFT1ASG	†	EFT3ASG

† Sterling Profile 2 flat tees

Where profiles have one angled cover and one square cover, as with Sterling Profile 2, it is possible to create a tee by changing the top or bottom cover so that covers match the profile of the trunking. For example:

- Upward tee – select Profile 1 tee remove the angled bottom cover and replace with square cover.
- Downward tee – select Profile 3 tee remove the square top cover and replace with angled cover.

Screened boxes



1 gang screened accessory box (polycarbonate)

code	depth	pack
ESSBA1SWH	30mm	20



2 gang screened accessory box (polycarbonate)

code	depth	pack
ESSBA2SWH	30mm	10

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to assist with screening from electromagnetic interference to data and communications cabling within trunking systems. The coating is applied to a range of data boxes, covers, clip-on components and fabricated fittings.

WARNING: A CS coating is not suitable for low voltage circuits. As per the current version of BS 7671 wiring regulations. For data/voice use only.



STERLING CURVE ALUMINIUM PROFILE 1 AND 2

Sterling Curve Aluminium is a robust and stylish Cat 7a compliant perimeter dado or skirting system that is easy and cost effective to use. The adaptable system has 1 or 2 curved data compartments designed to stop clutter, avoid dust traps and to make cleaning easy.

Product information

- 167 x 50mm
- 3 segregated compartments
- Suitable for dado and skirting application
- Boxes available to comply with Part M (DDA)
- Comprehensive range of flush power and data accessories
- Single piece moulded polycarbonate couplers, end caps, internal and external bends
- Fabricated aluminium flat tees and flat angles
- Utilises ETB300MMF base and LTL1 cover so all centre compartment fittings from the Sterling Aluminium range are compatible

Data information

- Compliant up to Cat 7a
- Standard bend radius 25mm
- Data fittings available for bend radius up to 50mm
- Adjustable data box 32-40mm
- Screened data boxes



Individual covers for each compartment

See page 164 for quick reference chart

Part M

For box assemblies and spacers that meet the requirements of Part M (DDA) please refer to page 54.



Standard Colour
SG
SG: Silver Grey

Trunking profiles



NEW

Curve Profile 1
size 167 x 50mm



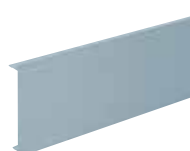
NEW

Curve Profile 2
size 167 x 50mm

Basic components



Base unit
code ETB300MMF pack 1 x 3m



Main compartment cover
code LTL1SG pack 1 x 3m



NEW

Curve cover
code CETC300SG pack 1 x 3m



Square cover
code ETSC300SG pack 1 x 3m

Curve Profile 1 fittings



NEW

**Curve Profile 1
Coupler**

code	description	pack
CECP1MASG	polycarbonate	1



NEW

**Curve Profile 1
End cap**

code	description	pack
CEEC1MASG	polycarbonate	1



NEW

**Curve Profile 1
Internal bend**

code	description	pack
CEIBP1MASG	polycarbonate	1



NEW

**Curve Profile 1
External bend**

code	description	pack
CEXBP1MASG	polycarbonate	1



NEW

**Curve Profile 1
Flat angle fabricated**

code	description	pack
CEFA1ASG		1



NEW

**Curve Profile 1
Flat tee fabricated**

code	description	pack
CEFT1ASG		1

Curve Profile 2 fittings



NEW

**Curve Profile 2
Coupler**

code	description	pack
CECP2MASG	polycarbonate	1



NEW

**Curve Profile 2
End cap**

code	description	pack
CEEC2MARHSG	(right) polycarbonate	1
CEEC2MALHSG	(left) polycarbonate	1



NEW

**Curve Profile 2
Internal bend**

code	description	pack
CEIBP2MASG	polycarbonate	1



NEW

**Curve Profile 2
External bend**

code	description	pack
CEXBP2MASG	polycarbonate	1



NEW

**Curve Profile 2
Flat angle up fabricated**

code	description	pack
CEFA2ASG		1



NEW

**Curve Profile 2
Flat tee fabricated**

code	description	pack
CEFT2ASG		1

Components



Earth bonding kit	
code	pack
LBT3	1



Coupler pin		
code	description	pack
LDP1	ø2.0 x 20mm	10

To aid alignment of base profiles



Bonding strap		
code	description	pack
LBS2	base to base & cover to base	5

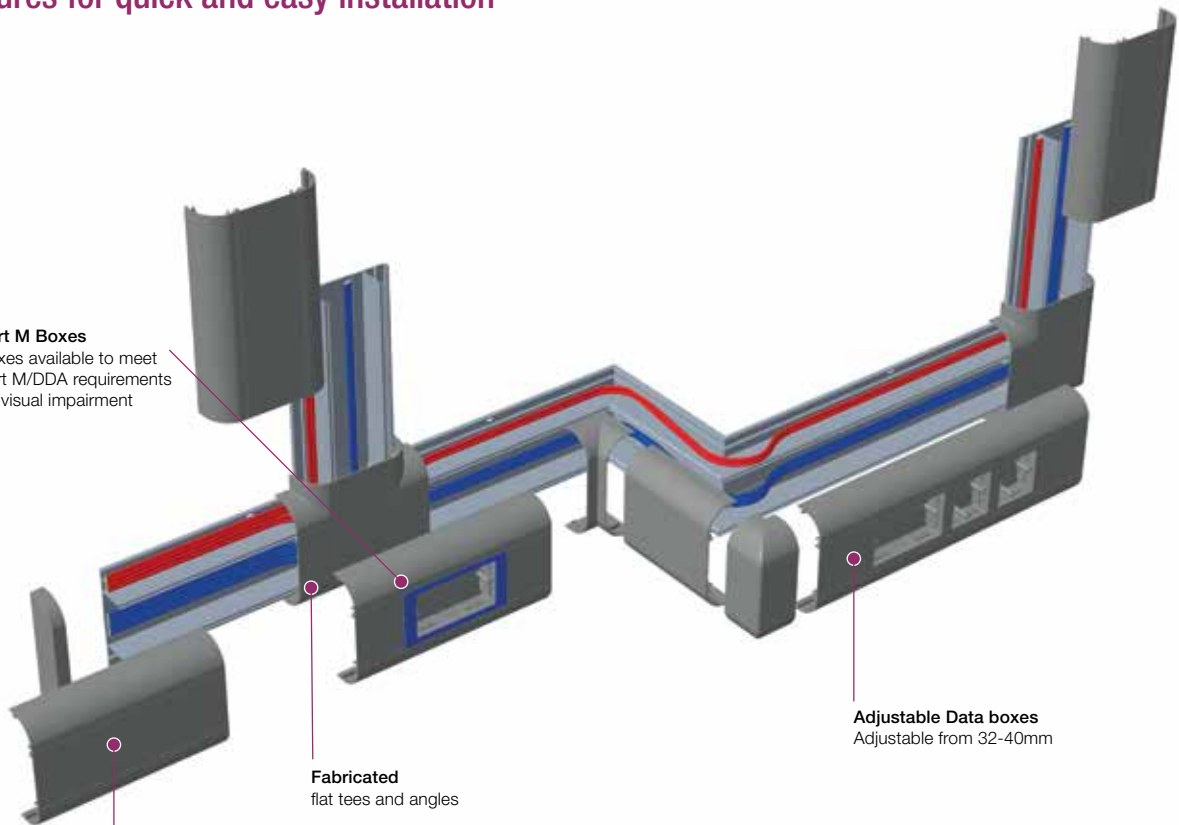


Main crossover bridge (PVC-U)	
code	pack
EMCB1	5

Sterling Curve Aluminium Trunking

Sterling Curve Aluminium features a host of practical features for quick and easy installation

Part M Boxes
Boxes available to meet Part M/DDA requirements for visual impairment



Fabricated
flat tees and angles

Adjustable Data boxes
Adjustable from 32-40mm

Gently contoured profile
Easy to clean
Impossible to clutter

Boxes and plates



RCD/MCB housing

code	description	pack
EAHCA1MWH	polycarbonate	1

*Up to 4 modules can be accommodated

Note: RCDs and MCBs are not supplied by Marshall-Tufflex



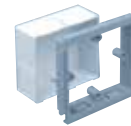
1 gang accessory box 30mm deep (polycarbonate)

code	description	pack
ESSB1SG		1



2 gang accessory box 30mm deep (polycarbonate)

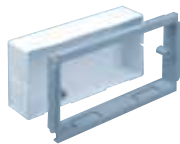
code	description	pack
ESSB2SG		1



1 gang adjustable depth box (polycarbonate)

code	depth	pack
EAB1SG	32-47mm	1

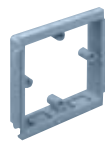
Please see page 261 for more information on the range of adjustable boxes



2 gang adjustable depth box (polycarbonate)

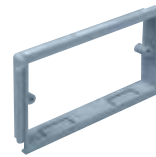
code	depth	pack
EAB2SG	32 - 47mm	1

Please see page 261 for more information on the range of adjustable boxes



1 gang accessory plate (polycarbonate)

code	description	pack
ESSP1SG		2



2 gang accessory plate (polycarbonate)

code	description	pack
ESSP2SG		2

Screened boxes



1 gang screened accessory box (polycarbonate)

code	depth	pack
ESSBA1SWH	30mm	20



2 gang screened accessory box (polycarbonate)

code	depth	pack
ESSBA2SWH	30mm	10

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to assist with screening from electromagnetic interference to data and communications cabling within trunking systems. The coating is applied to a range of data boxes, covers, clip-on components and fabricated fittings.

WARNING: A CS coating is not suitable for low voltage circuits. As per the current version of BS 7671 wiring regulations. For data/voice use only.

Quick reference chart

Sterling Curve Aluminium

3 compartment

Profile 1	Profile 2
167 x 50mm	167 x 50mm



Base unit

Pack 1 x 3m



ETB300MMF

ETB300MMF

Main compartment cover

Pack 1 x 3m



LTL1SG

LTL1SG

Curve cover

Pack 1 x 3m



2 x CETC300SG

CETC300SG

Square cover

Pack 1 x 3m



–

ETSC300SG

Couplers

Pack 1



CECP1MASG

CECP2MASG

End caps

Pack 1



CEECP1MASG

CEECP2MARHSG
CEECP2MALHSG

Internal bend

Pack 1



CEIBP1MASG

CEIBP2MASG

External bend

Pack 1



CEXBP1MASG

CEXBP2MASG

Flat angle fabricated

Pack 1



CEFA1ASG

–

Flat angle up fabricated

Pack 1



–

CEFA2ASG

Flat tee fabricated

Pack 1



CEFT1ASG

CEFT2ASG

ELEGANCE 170 ALUMINIUM

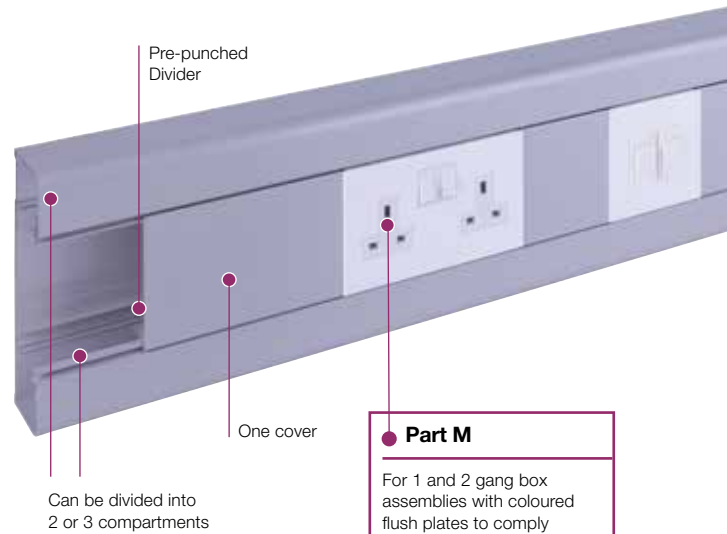
Elegance 170 aluminium is a sleek and rounded 170x55mm rectangular dado trunking system with a single cover, ideal for use in office or educational environments where extra mechanical strength and a higher cable capacity is required.



Product information

- 170 x 55mm
- Compliant up to Cat 7a
- "C" type section can be used as a single large compartment section or can be further subdivided into 2 or 3 compartments
- Suitable for dado and skirting applications
- Plain or pre-punched dividers for quick installation
- A range of fabricated fittings
- Part M compliant
- Data compliant 25mm and 50mm bend radius
- Compatible with Marshall-Tufflex flush power and data accessories and standard UK wiring power and accessories
- Standard silver-grey RAL 9006 powder coat finish
- Aluminium systems specified with polycarbonate fittings meet accepted requirements for LSOH

Note: Allowance must be made for earthing the trunking system to comply with the current version of the BS 7671 Wiring Regulations.



Part M

For 1 and 2 gang box assemblies with coloured flush plates to comply with Part M please refer to page 54.

Standard Colours
SG
SG: Silver Grey

Basic components



Base unit and cover

code	pack
LP1050SG	1 x 2.9m

Note: In order to subdivide Elegance 170 dividing fillets should be used

Fittings



End cap (screws included)

code	pack
LP1030SG	1



Internal bend 90°

code	pack
LP1020SG	1



External bend 90° slow

code	pack
LP1026SG	1



Flat angle

code	pack
LP1040SG	1



Flat tee

code	pack
LP1045SG	1

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Technical Information

Components



Galvanised steel dividing fillet (pre-punched)

code	length	pack
LP1005	1.45m	1



Plastic dividing fillet (un-punched)

code	length	pack
LP1006	1.45m	1



Earth bonding kit

code	pack
LBT3	1

Note: Fastons supplied suit 1.5mm to 2.5mm cable (blue) and 4.0mm to 6.0mm (yellow).



Coupler pin

code	description	pack
LDP1	ø2.0 x 20mm	10

To aid alignment of base profiles



Bonding strap

code	description	pack
ESBS1	base to base	5



Bonding strap

code	description	pack
LBS2	cover to base	5



Bonding strap

code	description	pack
LBS5	end cap to base	1



RCD/MCB housing

code	description	pack
EAHCA1MWH	polycarbonate	1

Not available in silver grey.
*Up to 4 modules can be accommodated.
Note: RCDs and MCBs are not supplied by Marshall-Tufflex.



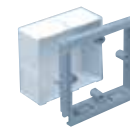
1 gang accessory box 30mm deep

code	pack
ESSB1SG	1



2 gang accessory box 30mm deep

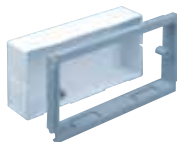
code	pack
ESSB2SG	1



1 gang adjustable depth box

code	depth	pack
EAB1SG	32-47mm	1

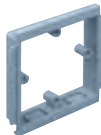
Please see page 261 for more information on the range of adjustable boxes



2 gang adjustable depth box

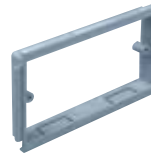
code	depth	pack
EAB2SG	32 - 47mm	1

Please see page 261 for more information on the range of adjustable boxes



1 gang accessory plate

code	pack
ESSP1SG	2



2 gang accessory plate

code	pack
ESSP2SG	2



1 gang screened accessory box (polycarbonate)

code	depth	pack
ESSBA1SWH	30mm	20



2 gang screened accessory box (polycarbonate)

code	depth	pack
ESSBA2SWH	30mm	10

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to assist with screening from electromagnetic interference to data and communications cabling within trunking systems. The coating is applied to a range of data boxes, covers, clip-on components and fabricated fittings.

WARNING: A CS coating is not suitable for low voltage circuits. As per the current version of BS 7671 wiring regulations. For data/voice use only.

Screened boxes

TWIN PLUS ALUMINIUM

Twin Plus aluminium is an extra deep cable management solution incorporating two large segregated high capacity compartments. Twin Plus is specifically designed for carrying large quantities of Cat 7a data cabling.



Product information

- 210 x 57mm
- 2 large permanent segregated compartments
- Each compartment can be subdivided
- Suitable for dado and skirting applications
- Bends angles and tees with a large bend radius
- Includes a range of clip-on fittings with built-in overlaps
- Fully compatible with Sterling flush power and data accessories
- All fittings are polycarbonate
- Available in silver grey as standard
- Aluminium systems specified with polycarbonate fittings meet accepted requirements for LSOH

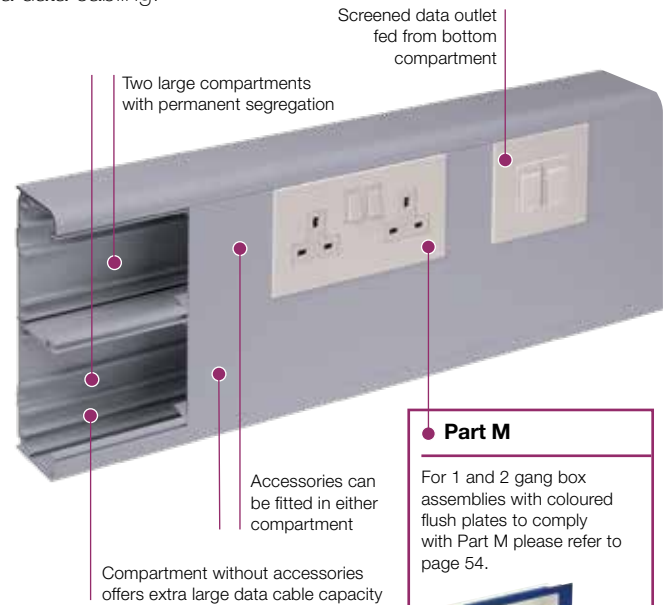
Data information

- Compliant up to Cat 7a[#]
- 50mm bend radius fittings
- Adjustable data box 32-47mm
- Screened divider and data boxes

Note: Allowance must be made for earthing the trunking system to comply with the current version of the BS 7671 Wiring Regulations.

Standard Colours
SG
SG: Silver Grey

Colour code suffix: to indicate the finish you require, add the required colour code to the end of the product code.



Part M

For 1 and 2 gang box assemblies with coloured flush plates to comply with Part M please refer to page 54.

#Data fittings

For made to order fittings to meet Cat 7a requirements please contact our Technical Team on +44 (0)1424 856688

Basic components



Base unit

code	pack
EMTA60SG	1 x 3m



Main compartment cover (aluminium)

code	pack
LTL1SG	1 x 3m

Fittings (polycarbonate)



Coupler

code	pack
EC60SG	1



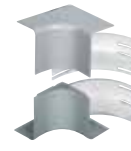
End cap

code	pack
EEC60SG	1



Internal bend cover

code	pack
EIBC60SG	1



Internal bend assembly

code	pack
EIB60SG	1



Standard external bend cover

code	pack
ESXBC60SG	1

End cap retaining screws

When installing end caps, additional retention can be achieved by using end cap retaining screws G1310 (pack 40).

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Technical Information

Fittings (polycarbonate)



External bend assembly - standard

code	pack
ESXB60SG	1

Capacity reduced by 50%



External bend assembly - large

code	pack
EXB60SG	1



Flat angle cover

code	pack
EFAC60SG	1



Flat angle assembly

code	pack
EFA60SG	1

Covers and cable inserts in Polycarbonate



Flat tee assembly

code	pack
EFTA60SG	1

Flat tees include covers, cable inserts in Polycarbonate with base in aluminium

Components



Dividing fillet (PVC-U)

code	pack
LDF1	8 x 3m



Earth bonding kit

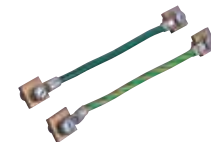
code	pack
LBT3	1



Coupler pin

code	description	pack
LDP1	ø2.0 x 20mm	10

To aid alignment of base profiles



Bonding strap

code	description	pack
LBS1	base to base 32 amp	5



Bonding strap

code	description	pack
LBS2	cover to base	5

Boxes and plates (polycarbonate)



RCD/MCB housing

code	description	pack
EAHCA1MWH	polycarbonate	1

*Up to 4 modules can be accommodated

Note: RCDs and MCBs are not supplied by Marshall-Tufflex



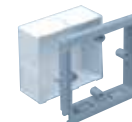
1 gang accessory box 30mm deep

code	pack
ESSB1SG	1



2 gang accessory box 30mm deep

code	pack
ESSB2SG	1

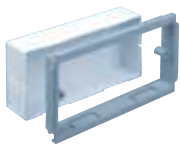


1 gang adjustable depth box

code	depth	pack
EAB1SG	32-47mm	1

Please see page 261 for more information on the range of adjustable boxes

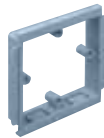
Boxes and plates (polycarbonate)



2 gang adjustable depth box

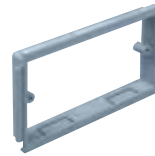
code	depth	pack
EAB2SG	32 – 47mm	1

Please see page 261 for more information on the range of adjustable boxes



1 gang accessory plate

code	pack
ESSP1SG	2



2 gang accessory plate

code	pack
ESSP2SG	2

Screened boxes



1 gang screened accessory box (polycarbonate)

code	depth	pack
ESSBA1SWH	30mm	20



2 gang screened accessory box (polycarbonate)

code	depth	pack
ESSBA2SWH	30mm	10

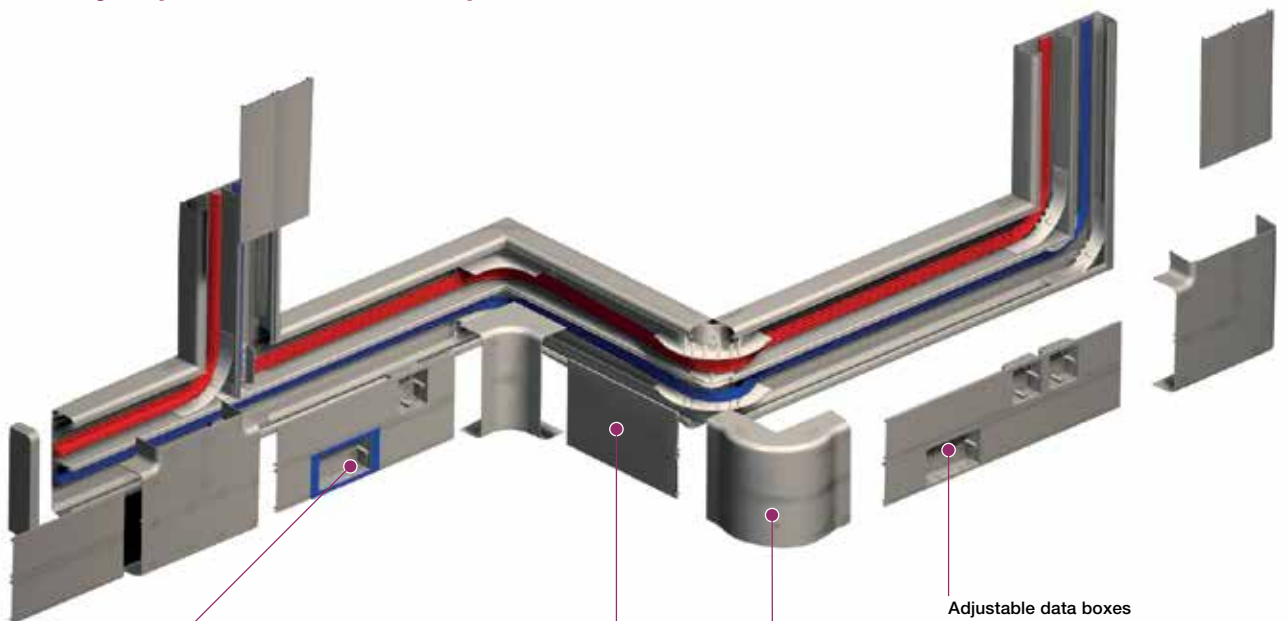
Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to assist with screening from electromagnetic interference to data and communications cabling within trunking systems. The coating is applied to a range of data boxes, covers, clip-on components and fabricated fittings.

WARNING: A CS coating is not suitable for low voltage circuits. As per the current version of BS 7671 wiring regulations. For data/voice use only.

Twin Plus aluminium

Twin Plus aluminium is a high cable capacity trunking system with a variety of practical features for power and data installations



Part M boxes
Boxes available to meet Part M/DDA requirements for visual impairment

Two separate compartments
Two large compartments that can be sub-divided, each with their own cover

Polycarbonate flat tees and angles
With integral 50mm bend radius control

Adjustable data boxes
Adjustable from 32-47mm
Can be screened against EMI

ALUMINIUM TRUNKING SYSTEMS

XL301 AND XL302 ALUMINIUM



XL aluminium trunking 301 and 302 are deep, 3-compartment systems that provide extra capacity and screening performance levels for data cabling.

Product information

- 220 x 65mm
- 3 deep segregated compartments
- Compartments can be subdivided
- Suitable for dado and skirting applications (XL301 is recommended for dado application only)
- Includes a range of polycarbonate clip-on fittings with built-in overlaps
- Fully compatible with Sterling flush power and data accessories
- Aluminium systems specified with polycarbonate fittings meet accepted requirements for LS0H

Data information

- Compliant up to Cat 7a*
- Data compliant 25mm and 50mm bend radius
- External bends feature internal segregators
- Adjustable data box 32mm - 47mm
- Screened divider and data boxes

Note: Allowance must be made for earthing the trunking system to comply with the current version of the BS 7671 Wiring Regulations.



Individual covers for each compartment

See page 173 for quick reference chart

Part M

For 1 and 2 gang box assemblies with coloured flush plates to comply with Part M please refer to page 54.

***Data fittings**

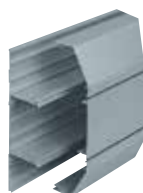
For made to order fittings to meet Cat 7a requirements please contact our Technical Team on +44 (0)1424 856688

Standard Colour
SG
SG: Silver Grey

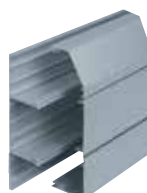
Colour code suffix: to indicate the finish you require, add the required colour code to the end of the product code.

ALUMINIUM TRUNKING SYSTEMS

Trunking profiles



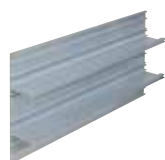
XL301
size 220 x 65mm



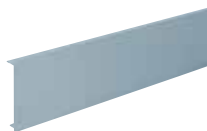
XL302
size 220 x 65mm

For dado installation only

Basic components



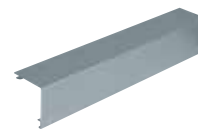
Base unit
code ELTB300 pack 2 x 3m



Main compartment cover
code LTL1SG pack 1 x 3m



Angled cover
code ELAC300SG pack 1 x 3m



Square cover
code ELSC300SG pack 1 x 3m

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Technical Information

XL301 fittings



**XL301
Coupler**

code	description	pack
EC301SG	polycarbonate	1



**XL301
End cap**

code	description	pack
EEC301SG	polycarbonate	1



**XL301
Internal bend**

code	description	pack
EIB301SG	polycarbonate	1



**XL301
External bend**

code	description	pack
EXB301SG	polycarbonate	1



**XL301
Flat angle – up/down**

code	description	pack
EFA301SG	aluminium	1



**XL301
Flat tee – up/down**

code	description	pack
EFT301SG	aluminium	1

XL302 fittings



**XL302
Coupler**

code	description	pack
EC302SG	polycarbonate	1



**XL302
End cap**

code	description	pack
EEC302LHSG	polycarbonate	1
EEC302RHSG	polycarbonate	1

LH = Left hand RH = Right hand



**XL302
Internal bend**

code	description	pack
EIB302SG	polycarbonate	1



**XL302
External bend**

code	description	pack
EXB302SG	polycarbonate	1



**XL302
Flat angle – upward**

code	description	pack
EFA302USG	aluminium	1



**XL302
Flat angle – downward**

code	description	pack
EFA302DSG	aluminium	1

XL Trunking 302 flat tees

Where profiles have one angled cover and one square cover, as with XL302, it is possible to create a tee by changing the top or bottom cover so that covers match the profile of the trunking. For example:

- Upward tee – select XL301 tee remove the angled bottom cover and replace with square cover.

Components



Dividing fillet (PVC-U)

code	description	pack
ELDF200	8 x 3m	



Earth bonding kit

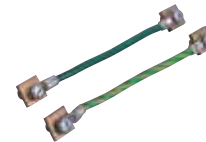
code	description	pack
LBT3		1



Coupler pin

code	description	pack
LDP1	ø2.0 x 20mm	10

To aid alignment of base profiles



Bonding strap

code	description	pack
LBS1	base to base 32Amp	5



Bonding strap

code	description	pack
LBS2	cover to base	5

Boxes and plates (polycarbonate)



RCD/MCB housing

code	description	pack
EAHCA1MWH	polycarbonate	1

Not available in silver grey.
*Up to 4 modules can be accommodated.
Note: RCDs and MCBs are not supplied by Marshall-Tufflex.



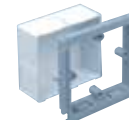
1 gang accessory box 30mm deep (polycarbonate)

code	description	pack
ESSB1SG		1



2 gang accessory box 30mm deep (polycarbonate)

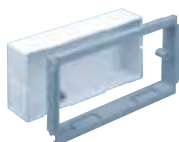
code	description	pack
ESSB2SG		1



1 gang adjustable depth box

code	description	pack
EAB1SG	32-47mm	1

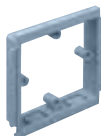
Please see page 261 for more information on the range of adjustable boxes



2 gang adjustable depth box

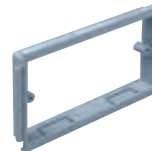
code	description	pack
EAB2SG	32 – 47mm	1

Please see page 261 for more information on the range of adjustable boxes



1 gang accessory plate (polycarbonate)

code	description	pack
ESSP1SG		2



2 gang accessory plate

code	description	pack
ESSP2SG		2

Screened boxes



1 gang screened accessory box (polycarbonate)

code	description	pack
ESSBA1SWH	30mm	20



2 gang screened accessory box (polycarbonate)

code	description	pack
ESSBA2SWH	30mm	10

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to assist with screening from electromagnetic interference to data and communications cabling within trunking systems. The coating is applied to a range of data boxes, covers, clip-on components and fabricated fittings.

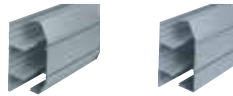
WARNING: A CS coating is not suitable for low voltage circuits. As per the current version of BS 7671 wiring regulations. For data/voice use only.

Quick reference chart

XL301 and XL302

3 Compartment

XL301	XL302
220 x 65mm	220 x 65mm



<p>Base unit</p> <p>Pack 2 x 3m</p> <p>Features earth bonding rail and screw ports to aid the fastening of pipe clips and gas valves etc</p>		ELTB300	ELTB300
<p>Main compartment cover</p> <p>Pack 1 x 3m</p>		LTL1SG	LTL1SG
<p>Angled cover</p> <p>Pack 1 x 3m</p>		2 x ELAC300SG	1 x ELAC300SG
<p>Square cover</p> <p>Pack 1 x 3m</p>		-	1 x ELSC300SG
<p>Couplers</p> <p>Pack 1</p>		EC301SG	EC302SG
<p>End caps</p> <p>Pack 1</p> <p>left or right hand</p>		EEC301SG	EEC302LHSG EEC302RHSG
<p>Internal bends</p> <p>Pack 1</p>		EIB301SG	EIB302SG
<p>External bends</p> <p>Pack 1</p>		EXB301SG	EXB302SG
<p>Flat angles</p> <p>Pack 1</p> <p>upward or downward</p>		EFA301SG	EFA302USG EFA302DSG
<p>† Flat tees</p> <p>Pack 1</p> <p>† See Flat Tee information below</p>		EFT301SG	†

† XL Trunking 302 flat tees

Where profiles have one angled cover and one square cover, as with XL 302, it is possible to create a tee by changing the top or bottom cover so that covers match the profile of the trunking. For example:

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ALUMINIUM TRUNKING SYSTEMS





WE ARE PVC-U EXPERTS...

With over 75 years in the extrusion business.



STEEL TRUNKING SYSTEMS

Steel trunking systems incorporate clean lines with a functionality that provides greater mechanical strength combined with first class fire performance and excellent screening capability.

STEEL TRUNKING SYSTEMS

Steel has a mechanical strength that makes it a robust and durable option for public areas where there is a high footfall. Steel trunking provides specifiers, contractors and end-users with reliable, practical systems with hard-wearing, clean lines and all the advantages of inherent LSOH (low smoke zero halogen) and screening properties.

Our compact Steel trunking systems incorporate stylish clean lines with a functionality that provides greater mechanical strength combined with first class fire performance, excellent screening capability and increased capacity for power and data services.

- Ease of installation - our base unit has two standard mounting holes of 6.5mm every 500mm
- Multiple earthing possibilities in the trunking, at the multi-purpose clip and with the coupler set
- Base systems held by internal coupler sets with scraping cams
- Friction fit covers
- Simple to cut system – empty base with no rail to cut through
- Wide range of fittings and accessories

Standard colour

The standard colour for each Marshall-Tufflex range is shown within each relevant product information section, although solid white RAL 9010 is our most popular colour option for steel trunking.

The below table identifies the relevant RAL colour reference for all our standard colour options, dependent on product range. However we would be happy to quote for any other colour requirements, please see the Special colours section.

Material	Standard colour	Colour code suffix	RAL
Steel	White	WH	9010

Standard Colour
WH
WH: White RAL 9010

Please note: it is dependent on the product range as to which colour is available as standard.

Special colours

To help enhance the style of an installation, different variations of solid colour are sometimes required.

We can provide special colours in a painted solution dependent on your client's preference. All special colour requirements will need to be specified as a RAL colour.

Please note: these colours are made to order and therefore are subject to set up charges and a longer lead time. For more information and a quotation contact our Technical Team on +44 (0)1424 856688.



System 130

130 x 63mm

A compact rectangular dado trunking also suitable as a feeder trunking.



Page 180

System 170

170 x 63mm

A mid-size rectangular dado and skirting trunking also suitable as a feeder trunking.



Page 182

Information

Please note: our steel systems may be subject to lead times. For further information please call our Technical Team on +44 (0)1424 856688.

Environmental & sustainability



- Steel is very friendly to the environment - 100% recyclable material.
- Compared to other materials it requires relatively low amounts of energy to produce.
- Can be recycled many times without loss of quality. The steel industry has been recycling for more than 150 years.
- Recycling one tonne of steel saves 1,100 kilos of iron ore, 630 kilos of coal and 55 kilos of limestone.
- Structural steel typically contains around 95% recycled steel content.
- Energy consumption and carbon dioxide emissions have decreased by half of what they were in the 1960s; Dust emissions have been reduced by even more.
- Recycling facilities are well established.

EMI protection



- Steel naturally has very strong EMI protective properties.

Fire performance



- Steel trunking systems meet accepted requirements for LSOH.
- Withstands high temperatures with a melting point of approximately 1370°C (2500°F).
- Type and thickness of any coating needs to be considered as this can affect fire performance.

Note: you may use the rule on the left of this page to check profile sizes.

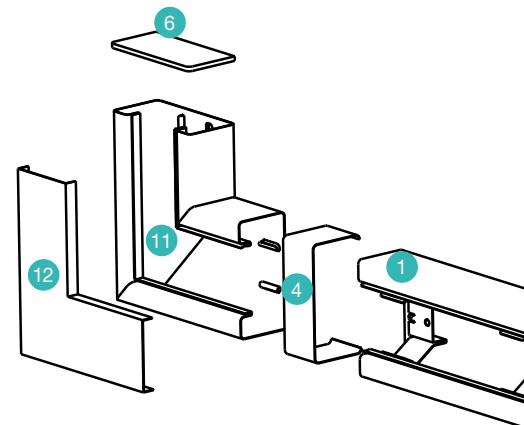


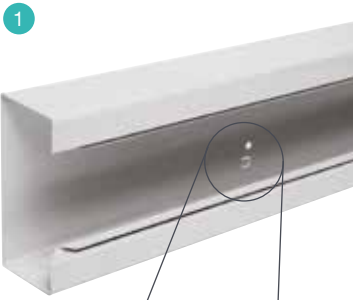
Our compact Steel trunking systems incorporate stylish clean lines with a functionality that provides greater mechanical strength combined with first class fire performance and excellent screening capability.

- Ease of installation - our base unit has two standard mounting holes of 6.5mm every 500mm
- Multiple earthing possibilities in the trunking, at the multi-purpose clip and with the coupler set
- Base systems held by internal coupler sets with scraping cams
- Friction fit covers
- Simple to cut system – empty base with no rail to cut through
- Wide range of fittings and accessories

Description	System 130	System 170
1 Base unit 2 metre	351215	351216
2 Cover 1 metre	351210	351210
Cover 1.5 metre	351230	351230
3 Dividing fillet*	351189	351189
4 External tolerance sleeve	351075	351076
5 External joint cover	351105	351106
6 End cap	351045	351046
7 Internal bend base	351275	351276
8 External bend base	351305	351306
9 External bend cover	351240	351240
10 Universal int/ext bend	351175	351176
11 Flat angle base up/down	351335	351336
12 Flat angle cover	351260	351260
13 Flat tee base – up/down	351395	351396
14 Internal coupling/bonding set	351525	351526
15 Universal multi-purpose clip	351319	351319

* Please note 3 Universal multi-purpose clips (see page 181) are needed per length of trunking, and 2 Universal multi-purpose clips are needed to hold each dividing fillet in place.



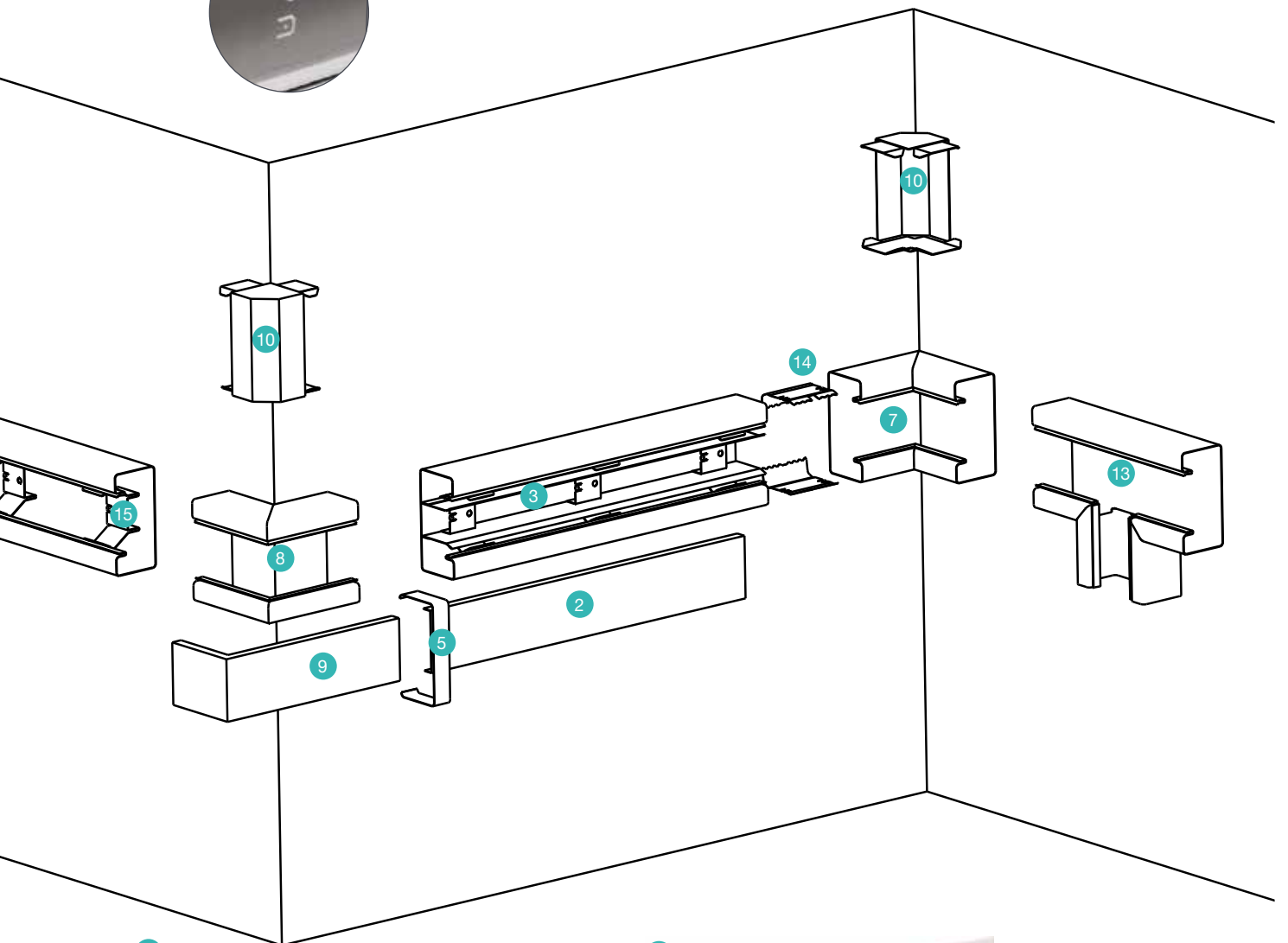


1 Two standard mounting holes of 6.5mm every 500mm for easy mounting.

Trunking bases have a 6.4mm earth tag at every 500mm.



3 Dividing fillets allow the systems to be subdivided into two or three compartments.



15 Multi-purpose clip allows separation of power and data cables - ensuring a 50mm distance between cables or can accommodate the dividing fillet.



1 Markings on the base help to position the wiring device boxes, measure and cut trunking to the desired length.

SYSTEM 130

COMPLIANT UP TO
CAT 7A

Steel System 130 is stylish compact pre galvanised trunking system with extra depth and a resilient white powder-coat finish that helps to prevent smearing and marking.

Product information

- 130 x 63mm
- 1 main compartment
- Can be subdivided
- Suitable for dado application
- Data compliant 25mm and 50mm bend radius
- Compliant up to Cat 7a

Note: Allowance must be made for earthing the trunking system to comply with the current version of the BS 7671 Wiring Regulations.



Can be subdivided into 3 compartments

Single cover

Friction-fit covers and bonding assemblies eliminate need for separate bonding straps

Standard Colour
WH
WH: White RAL 9010

Please note that our steel systems may be subject to lead times. For further information please call the Technical Team on +44 (0)1424 856688.

STEEL TRUNKING SYSTEMS

Basic components



Base unit

code	size	pack
351215	130 x 63mm	1 x 2m



Cover

code	length	pack
351210	1m	10 x 1m
351230	1.5m	10 x 1.5m

Fittings



External tolerance sleeve

code	width	pack
351075	40mm	5



External joint cover

code	width	pack
351105	25mm	5



End cap

code	pack
351045	5

For use with LBS3



Internal bend base

code	pack
351275	1



External bend base

code	pack
351305	1



External bend cover

code	pack
351240	1

Fittings



Universal int/ext bend

code	pack
351175	1



Flat angle base – up/down

code	pack
351335	1



Flat angle cover

code	pack
351260	1



Flat tee base – up/down

code	pack
351395	1

Components



Dividing fillets

code	size	pack
351189	1m	10 x 1m



Universal multi-purpose clip

code	pack
351319	1

Please note 3 Universal multi-purpose clips are needed per length of trunking, and 2 Universal multi-purpose clips are needed to hold each dividing fillet in place.



Internal coupling/bonding set

code	pack
351525	10 sets

Please note each set consists of 2 pieces



End cap bonding strap

code	pack
LBS3	1

Accessories

Touch-up paint RAL 9010

code	size	pack
351029	25ml	1

Boxes



1 gang accessory box

code	depth	pack
RSSB10WH	40mm	12



2 gang accessory box

code	depth	pack
RSSB20WH	40mm	6



Cover spacer for accessory boxes

code	width	pack
WG01085	50mm	10



SYSTEM 170

COMPLIANT UP TO
CAT 7A

Steel System 170 is a mid-sized pre-galvanised trunking system with extra depth and a resilient white powder-coat finish that helps to prevent smearing and marking.

Product information

- 170 x 63mm
- 1 main compartment
- Can be subdivided
- Suitable for dado and skirting application
- Data compliant 25mm and 50mm bend radius
- Compliant up to Cat 7a

Note: Allowance must be made for earthing the trunking system to comply with the current version of the BS 7671 Wiring Regulations.



Can be subdivided into 3 compartments

Single cover

Friction-fit covers and bonding assemblies eliminate need for separate bonding straps

Standard Colour
WH
WH: White RAL 9010

Please note that our steel systems may be subject to lead times. For further information please call the Technical Team on +44 (0)1424 856688.

Basic components



Base unit

code	size	pack
351216	170 x 63mm	1 x 2m



Cover

code	length	pack
351210	1m	10 x 1m
351230	1.5m	10 x 1.5m

Fittings



External tolerance sleeve

code	width	pack
351076	40mm	5



External joint cover

code	width	pack
351106	25mm	5



End cap

code	pack
351046	5

For use with LBS3



Internal bend base

code	pack
351276	1



External bend base

code	pack
351306	1



External bend cover

code	pack
351240	1

Fittings



Universal int/ext bend		
code	size	pack
351176		1



Flat angle base – up/down		
code	size	pack
351336		1



Flat angle cover		
code	size	pack
351260		1



Flat tee base – up/down		
code	size	pack
351396		1

Components



Dividing fillets		
code	size	pack
351189	1m	10 x 1m



Universal multi-purpose clip		
code	size	pack
351319		1

Please note 3 Universal multi-purpose clips are needed per length of trunking, and 2 Universal multi-purpose clips are needed to hold each dividing fillet in place.



Internal coupling/bonding set		
code	size	pack
351526		10 sets

Please note each set consists of 2 pieces



End cap bonding strap		
code	size	pack
LBS3		1

Accessories

Touch-up paint
RAL 9010

code	size	pack
351029	25ml	1

Boxes



1 gang accessory box		
code	depth	pack
RSSB10WH	40mm	12



2 gang accessory box		
code	depth	pack
RSSB20WH	40mm	6



Cover spacer for accessory boxes		
code	width	pack
WG01085	50mm	10



Contact our team Our office opening hours are 8am to 5pm Monday to Friday

Customer Services

+44 (0)1424 856600

sales@marshall-tufflex.com

Technical Services

+44 (0)1424 856688

technical@marshall-tufflex.com

Technical support

Our Technical Team consists of qualified Electricians, Electrical and Mechanical Engineers with many years experience of cable management installations including an understanding of the regulations and compliancy to standards in both domestic and commercial sectors. The team can advise on a wide range of solutions and technical issues, product standards, data cabling control and Part M compliancy.

We pride ourselves on providing and supplying our customers with specialist solutions to suit a variety of needs and the team's expertise enables us to provide quotations for specialist solutions. We aim to complete all standard quotes within 1 working day, although more complex quotations such as 'take offs' can take longer.



First class customer service

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BIM (Building Information Modelling)

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Visit www.marshall-tufflex.com or www.bimstore.co.uk



Same day collection*



Our popular same day collection service gives our customers an unrivalled two-hour turnaround on product orders, allowing them to collect from our dedicated collection points in Manchester and London. Orders can also be collected next day from our Hastings depot.

Manchester

Europa Trading Estate, Stoneclough Road, Radcliffe, Manchester M26 1GG

London

101c Blackhorse Lane, London E17 6DJ

- Orders can be collected two hours after order placement from Manchester and London.
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Hastings

55-65 Castleham Road, St Leonards-on-Sea TN38 9NU

- Orders placed by 12.30pm can be collected from 10am the next day from our Hastings depot.

* Subject to stock availability



Follow us on
Twitter @MTufflex

For details regarding collections, please contact our Customer Services team on +44 (0)1424 856600 or email sales@marshall-tufflex.com

POWERPOLES AND POWERPOSTS

PowerPoles and PowerPosts are a practical and elegant solution for the management of power, data and communication services to island workstations.



SERIES 1 POWERPOLES

Square Series 1 PowerPoles can be single or double-sided and are a practical solution for the management of power, data and communication services to island work stations.

Product information

- Aluminium body for strength and rigidity
- Suitable for suspended and solid ceiling applications
- Cabling can be fed from the ceiling, from the floor or both
- Supplied with 6 accessory boxes
- Standard 3.6m pole includes ceiling fixing bracket
- Pole extension kit available to extend up to 5m
- Can be subdivided and screened between services
- Flush accessories

Standard finish Series 1	
ANWH	WHWH
ANWH • Anodised body • White fittings	WHWH • White body • White fittings

Series 1 PowerPoles



PowerPole – Series 1 square single-sided

code	pack
PPS36001ANWH	1
with 250mm adjustable slide	
PPS36001WHWH	1
with 250mm adjustable slide	

Height: Maximum height of Series 1 PowerPoles is 3686mm. For additional heights within ceiling voids, a 1m adjusting slide is available (PHAS2) – see the accessories on page 189

Note: Supplied with with 6 accessory boxes

Material: Aluminium body with PVC-U covers

Finish: White powder coat or natural anodised finish



PowerPole – Series 1 square double-sided

code	pack
PP36001ANWH	1
with 250mm adjustable slide	
PP36001WHWH	1
with 250mm adjustable slide	

Height: Maximum height of Series 1 PowerPoles is 3686mm. For additional heights within ceiling voids, a 1m adjusting slide is available (PHAS2) – see the accessories on page 189

Note: Supplied with 6 accessory boxes

Material: Aluminium body with PVC-U covers

Finish: White powder coat or natural anodised finish



Extension kit double-sided (1400mm) for Series 1 PowerPoles

code	pack
PP1400EAN	anodised 1
PP1400EWH	white 1

POWERPOLES AND POWERPOSTS

Fixing system

An adjustable slide fixing system to the ceiling is included with the PowerPole.



SERIES 2 POWERPOLES

Elliptical double-sided Series 2 PowerPoles are an elegant solution for the management of power, data and communication services to island work stations.

Product information

- Aluminium body for strength and rigidity
- Suitable for suspended and solid ceiling applications
- Cabling can be fed from the ceiling, from the floor or both
- Doors included to hide sockets
- Supplied with 14 accessory boxes and pre-installed with dividing fillets
- Standard 3.6m pole includes ceiling fixing bracket
- Can be subdivided and screened between services
- Flush accessories

Standard finish Series 2	
ANWH	WHWH
ANWH • Anodised body • Anodised doors • White fittings	WHWH • White body • White doors • White fittings

Series 2 PowerPoles



PowerPole – Series 2 elliptical double-sided

code	pack
NPPE36001441ANWH	1
NPPE36001441WHWH	1

Height: Maximum height of Series 2 PowerPoles is 3686mm. For additional heights within ceiling voids, a 1m adjusting slide is available (PHAS2) – see the accessories on page 189

Note: Supplied complete with 14 accessory boxes and a further 14 boxes can be accommodated

Material: Aluminium body and doors

Finish: White powder coat or natural anodised finish

Dividing fillets: dividing fillets are pre-installed

POWERPOLES AND POWERPOSTS



POWERPOSTS

PowerPosts are a practical and elegant solution for the management of power, data and communication services to island work stations.

Product information

- PowerPosts are suitable for all floor applications
- Designed to fit below standard desk height
- Flush accessories available – see page 189

Standard finish	
ANWH	WHWH
ANWH • Anodised body • White fittings	WHWH • White body • White fittings

PowerPost



PowerPost square double-sided

code	pack
PP685ANWH	1
PP685WHWH	1

Height: Overall height of PowerPost including cap and foot is 692mm

Note: PowerPost is supplied with 6 accessory boxes

Material: Aluminium body with PVC-U covers

Finish: White powder coat or natural anodised finish

POWERPOLES AND POWERPOSTS

Specialised PowerPost Solutions

Our Technical Team will work with architects, design teams and contractors to create pre-fabricated solutions designed to save time on site. PowerPosts can be adapted to be ceiling-mounted or horizontally mounted. See pages 45 and 47 for further details or contact our Technical Team on +44 (0)1424 856688 to discuss your project or request a quotation.



POWERPOLE AND POST ACCESSORIES

Components



Accessory box spacer

code	pack
ES1WH	4

For use between accessory boxes.



Dividing fillet single sided

code	pack
ELDF200	8 x 3m

For Series 1 single sided pole.



Dividing fillet double-sided

code	pack
EDF1	8 x 3m

For Series 1 double-sided pole or post.



Adjusting slide

code	size	pack
PHAS2	1150mm	1

To extend the overall height of Series 1 or 2 PowerPoles by up to 1m.

Boxes (Series 1 and 2)



***RCD/MCB housing**

code	pack
EAHC1MWH	1

*Up to 4 modules can be housed

Note: RCD not supplied by Marshall-Tufflex



1 gang accessory box

code	depth	pack
ESSB1WH	30mm	20



1 gang adjustable box

code	depth	pack
EAB1WH	32 – 47mm	10

Please see page 123 for more information on the range of adjustable boxes



Wired 13Amp 1 gang vertical mount switched socket

code	depth	pack
ESS11WH	30mm	1



Vertical mounted flush data module 2 x RJ45

code	size	pack
EM526WH	37 x 22mm	1

Screened boxes

Screening

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WARNING: A CS coating is not suitable for low voltage circuits. As per the current version of BS 7671 wiring regulations. For data/voice use only.



1 gang screened accessory box

code	depth	pack
ESSB1SWH*	30mm	20

1 gang screened adjustable box

code	depth	pack
EAB1SWH*	32 – 40mm	1

*Supplied complete with earth terminal

EAB1S is fully adjustable to 47mm. Please see page 261 for more information.



POWERPOLES AND POWERPOSTS

Contact our team

Our office opening hours are 8am to 5pm Monday to Friday

Customer Services



+44 (0)1424 856600



sales@marshall-tufflex.com

Technical Services



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technical@marshall-tufflex.com

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55-65 Castleham Road, St Leonards-on-Sea TN38 9NU

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* Subject to stock availability



Follow us on
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UNDERFLOOR TO DESK SOLUTIONS

A comprehensive product range of flexible floor to desk cable management and prefabricated wiring systems developed to provide installations that are fast, easy and adaptable for contractor and client.

UNDERFLOOR TO DESK SOLUTIONS

Marshall-Tufflex's underfloor to desk solutions incorporate a range of products for the distribution of power and data services from beneath raised floors and in-screed systems to desks.

A variety of wiring options are available, including the MT32 prefabricated technology that provides seamless connection all the way from the incoming feed to the desktop.

Underfloor to desk solutions provide a sustainable wiring option, offering zero waste systems which can be re-used and re-configured.

Powertrack

Standard and CE (Clean Earth) 63Amp powertrack.

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Raised floor boxes and grommets

3 and 4 compartment unwired and pre-wired boxes and grommets.

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In-screed system

PVC-U or steel ducting with 3 and 4 compartment outlet boxes.

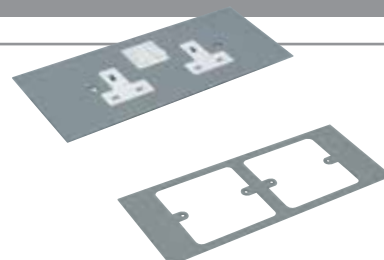
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201



Faceplates and accessories

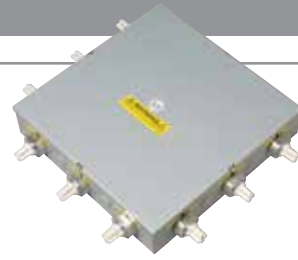
Accessories and accessory mounting plates for raised floor and in-screed floor outlet boxes.

Page
202



MT32 pre-wired underfloor power distribution

A 32Amp, interconnecting, fast-fit and flexible, pre-wired and tested underfloor to floor outlet box power distribution system.



Page 198

Power and data modules

A range of moulded pre-wired and assembled power units that can be used singly or linked by plug and play cable connectors.



Page 203

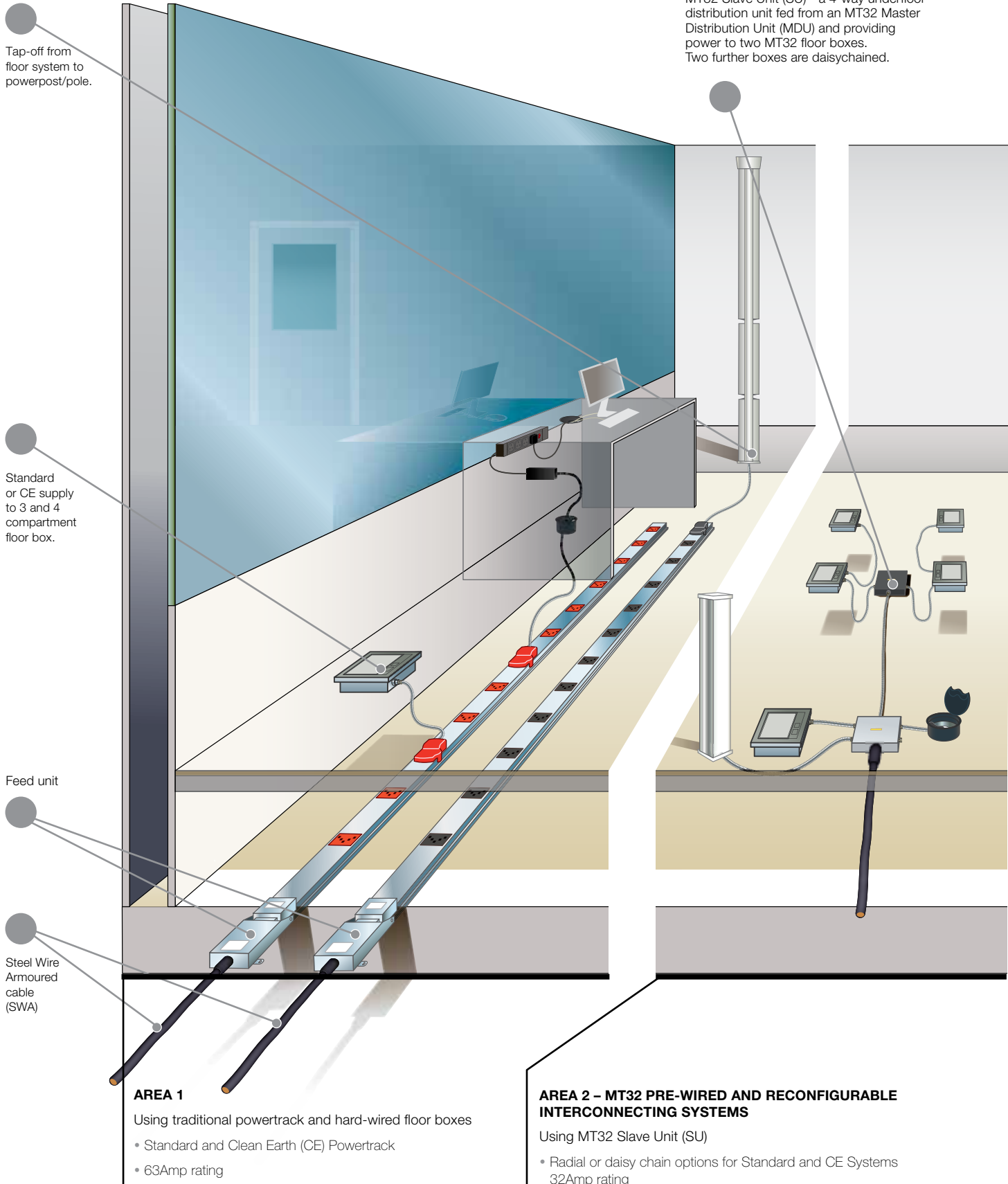
Each year by using recycled PVC-U in our manufacturing,
WE ARE SAVING THE EQUIVALENT IN WEIGHT OF 300 DOUBLE DECKER BUSES GOING INTO LANDFILL



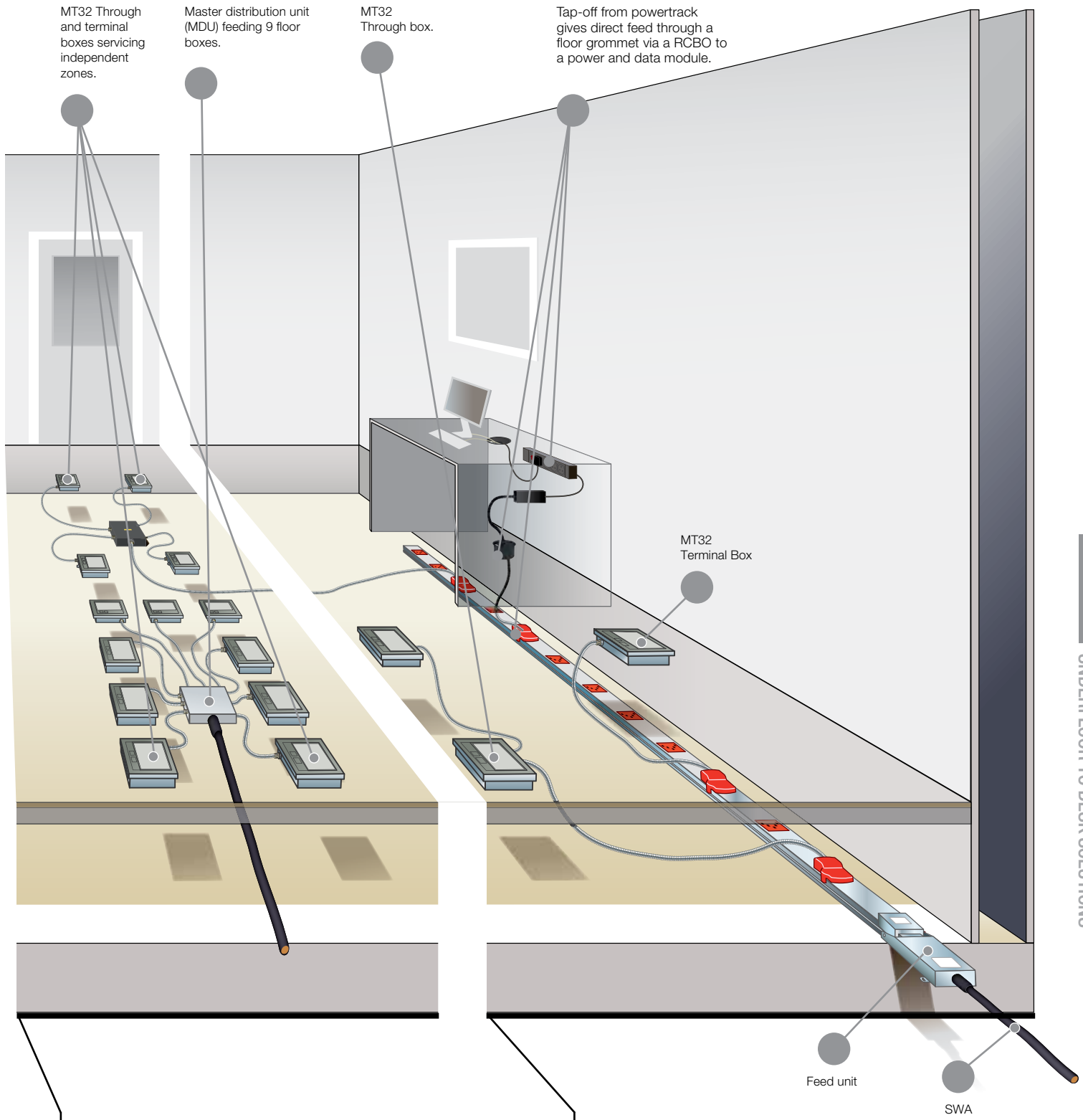
REASSURINGLY RECYCLED

PRE-WIRED UNDERFLOOR LAYOUTS

A selection of design layouts incorporating MT32 pre-wired technology and powertrack.
Please note: All products should be installed as per the manufacturer's installation instructions and as per current Wiring Regulations



UNDERFLOOR TO DESK SOLUTIONS



MT32 Through and terminal boxes servicing independent zones.

Master distribution unit (MDU) feeding 9 floor boxes.

MT32 Through box.

Tap-off from powertrack gives direct feed through a floor grommet via a RCBO to a power and data module.

MT32 Terminal Box

Feed unit

SWA

AREA 3 – MT32 PRE-WIRED AND RECONFIGURABLE INTERCONNECTING SYSTEMS

Using MT32 Slave Unit (SU)

- Radial or daisy chain options for Standard and CE Systems 32Amp rating

AREA 4 – A COMBINATION OF powertrack AND MT32

Using 63Amp Standard or CE Powertrack with the MT32 32Amp Underfloor Distribution system.

- A combination that permits greater floor coverage 32Amp rating

UNDERFLOOR TO DESK SOLUTIONS

POWERTRACK



A range of 63Amp powertrack complete with integral mounting brackets and pre-assembled end caps and couplers for ease of installation.

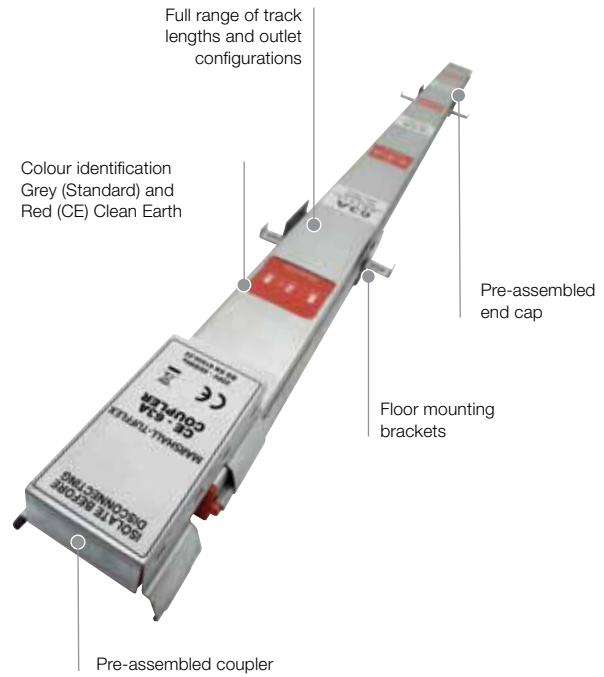
Product information

- Each length of track comes complete with pre-assembled coupler, end cap and floor mounting brackets.
- Maximum 63Amp rating
- Tap-offs are key and colour coded for Standard and CE (Clean Earth)
- Tap-offs are 32Amp rated or fused at 13Amp
- Adhesive dust covers protect outlets
- Compatible with MT32 pre-wired floor boxes



Powertrack and fittings are independently tested by Intertek

Identification	
Standard	CE
Standard: Grey CE (Clean Earth): Red	



To calculate powertrack lengths required for different floor layouts refer to table on opposite page.

Powertrack
Standard



code	length	Number of outlets	pitch (mm)	pack
UN1112	1.2m	4	300	2
UN1118	1.8m	6	300	2
UN1114	2.4m	8	300	2
UN1116	3.6m	12	300	2

Powertrack
CE (Clean Earth)



code	length	Number of outlets	pitch (mm)	pack
UN1212	1.2m	4	300	2
UN1218	1.8m	6	300	2
UN1214	2.4m	8	300	2
UN1216	3.6m	12	300	2










Standard
Rated current 63Amp



Low Noise (CE)
Rated current 63Amp



Feed unit	Interlink		Interlink		Tap-off units		Tap-off units		Tap-off units		Tap-off units	
Female	Length	1.2m	Length	2.4m	Unfused 32Amp		Fused 13Amp		Unfused 32Amp		Fused 13Amp	
Pack 1	Pack 1		Pack 1		Length	3m	Length	3m	Length	5m	Length	5m
					Pack	1	Pack	1	Pack	1	Pack	1
												
UN3100	UN5102		UN5104		UN7113		UN7123		UN7115		UN7125	
UN3200	UN5202		UN5204		UN7213		UN7223		UN7215		UN7225	

All tap-off units comply with the latest version of the Wiring Regulations Section 543 (High Integrity Earthing).

Powertrack – run length component chart

To determine the number and size of track required for a given area, select your total run length (in metres) from the left hand column, then find the correct track combinations along that row.

Total run in metres	Track lengths required			
3.6	3.6			
4.2	1.8	2.4		
4.8	2.4	2.4		
5.4	3.6	1.8		
6.0	3.6	2.4		
6.6	2.4	2.4	1.8	
7.2	3.6	3.6		
7.8	3.6	2.4	1.8	
8.4	3.6	3.6	1.2	
9.0	3.6	3.6	1.8	
9.6	3.6	3.6	2.4	
10.2	3.6	3.6	1.8	1.2
10.8	3.6	3.6	3.6	
11.4	3.6	3.6	2.4	1.8
12.0	3.6	3.6	3.6	1.2

Total run in metres	Track lengths required					
12.6	3.6	3.6	3.6	1.8		
13.2	3.6	3.6	3.6	2.4		
13.8	3.6	3.6	3.6	1.8	1.2	
14.4	3.6	3.6	3.6	3.6		
15.0	3.6	3.6	3.6	2.4	1.8	
15.6	3.6	3.6	3.6	3.6	1.2	
16.2	3.6	3.6	3.6	3.6	1.8	
16.8	3.6	3.6	3.6	3.6	2.4	
17.4	3.6	3.6	3.6	3.6	1.8	1.2
18.0	3.6	3.6	3.6	3.6	3.6	
18.6	3.6	3.6	3.6	3.6	2.4	1.8
19.2	3.6	3.6	3.6	3.6	3.6	1.2
19.8	3.6	3.6	3.6	3.6	3.6	1.8

We recommend that no single run of Powertrack exceeds 20 metres.

UNDERFLOOR TO DESK SOLUTIONS

RAISED FLOOR BOXES AND GROMMETS

A high quality range of raised floor boxes to provide power and data to desks within the modern office environment. Available as standard or heavy duty versions, boxes are supplied with dividers for quick and easy configuration as either a 3 or 4 compartment box.

Product information

- Standard depth 83mm
- Supplied with dividers to create 3 or 4 compartment box
- Two earth fixing points for flexible positioning of sockets
- 3mm thick medium load plate
- Fixings are pre-punched for quick and easy installation
- Supplied with metal screws to attach trim to box for a secure fix
- Steel sub-frame option for heavy traffic and fine adjustment to allow for uneven flooring
- Supplied with two snap-in cable retainers/guides
- Cut-out within lid for carpet or carpet tiles up to 6mm
- Reversible and self closing lid for extra safety and security
- Barrel lock option available for extra security

Standard finish
GY
GY: Grey RAL7011 (floor box trim)

Designed and manufactured to

BS EN 61534-22:2009
BS EN 60670-1:2005
BS EN 60670-23:2008
BS EN 50085-1:2005
BS EN 50085-2-2:2008



MT32 Pre-wired underfloor distribution

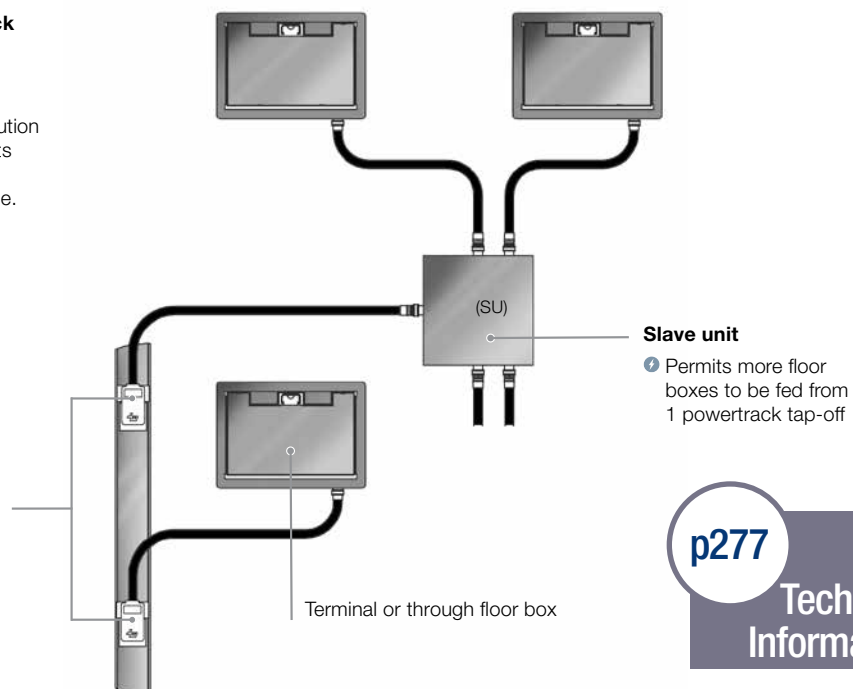
MT32 pre-wired underfloor distribution is a prefabricated wiring system that incorporates 32Amp plug and play connector technology. The system provides a range of pre-wired, pre-tested products which can be used alone or in conjunction with power track, desk modules and other pre-wired systems to accommodate various underfloor layout options.

Suggested layout when using powertrack with MT32 distribution

Should powertrack be the preferred method of underfloor power supply, then combining powertrack with the MT32 underfloor distribution system through floor boxes and/or slave units will provide a far greater reach than can be achieved using powertrack tap-off units alone.

Powertrack tap-off

- 32Amp tap-off pre-wired to MT32 male connector
- 3.0m and 5.0m leads, Standard or CE
- Also 13Amp fused tap-offs



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Technical
Information

MT32 pre-wired floor boxes



3 compartment floor box (terminal)
357 x 257 x 83mm

code	description	pack
UM1010	1 x 2 gang Std	1
UM1020	2 x 2 gang Std	1
UM1030	3 x 2 gang Std	1
UM1110	1 x 2 gang CE	1
UM1120	2 x 2 gang CE	1
UM1130	3 x 2 gang CE	1



3 compartment floor box (through)
357 x 257 x 83mm

code	description	pack
UM5210	1 x 2 gang Std	1
UM5220	2 x 2 gang Std	1
UM5230	3 x 2 gang Std	1
UM5211	1 x 2 gang CE	1
UM5221	2 x 2 gang CE	1
UM5231	3 x 2 gang CE	1



4 compartment floor box (terminal)
357 x 257 x 83mm

code	description	pack
UM5010	1 x 2 gang Std	1
UM5020	2 x 2 gang Std	1
UM5030	3 x 2 gang Std	1
UM5110	1 x 2 gang CE	1
UM5120	2 x 2 gang CE	1
UM5130	3 x 2 gang CE	1



4 compartment floor box (through)
357 x 257 x 83mm

code	description	pack
UM5610	1 x 2 gang Std	1
UM5620	2 x 2 gang Std	1
UM5630	3 x 2 gang Std	1
UM5611	1 x 2 gang CE	1
UM5621	2 x 2 gang CE	1
UM5631	3 x 2 gang CE	1

Pre-wired floor boxes



3 compartment standard pre-wired box with 3m tap-off 357 x 257 x 83mm

code	description	pack
UPW400	1 x 2 gang Std	1



3 compartment CE pre-wired box with 3m tap-off 357 x 257 x 83mm

code	description	pack
UPW405	1 x 2 gang CE	1



4 compartment standard pre-wired box with 3m tap-off 357 x 257 x 83mm

code	description	pack
UPW410	1 x 2 gang Std	1



4 compartment CE pre-wired box with 3m tap-off 357 x 257 x 83mm

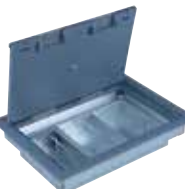
code	description	pack
UPW415	1 x 2 gang CE	1

Raised floor boxes



Empty floor box

code	description	pack
UM1000	Plastic lid & trim	1
UM1500	Steel lid & trim	1



Contractor floor box

code	description	pack
UM1430	Plastic lid/trim with plate to accept 1 x 2 gang accessory	1

Please see page 202 for the full range of accessory plates



Floor grommets



Floor grommet

code	description	pack
UTG1BK	without foam insert	1
UTG1GY	without foam insert	1



Floor power grommet

code	description	pack
UPG1BK	with foam insert	1
UPG1GY	with foam insert	1

Please note the floor box grommets are available in black BK (RAL9004) and grey GY (RAL7037).



Accessories



Sub-frame assembly

code	description	pack
UMSF1		1



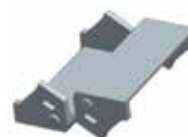
Lock kit

code	description	pack
UMLK1		1



Raised floor lid assembly

code	description	pack
UMLD1	Plastic	1
UMLD3	Steel	1



Replacement cable flaps pack

code	description	pack
UMCB1		1

*For plastic lid assembly only

MT32 components



Master distribution unit (MDU) 32Amp rating 260 x 260 x 55mm

code	description	pack
UM6200	9 way Std	1
UM6201	9 way CE	1



Slave unit (SU) 32Amp rating 100x100x55mm

code	description	pack
UM6100	4 way Std	1
UM6101	4 way CE	1



***Male & female adaptors 220mm tail - fits 20mm knockout**

code	description	pack
UA7234	3 pole (male) white	1
UA7244	4 pole (male) white	1
UA7134	3 pole (female) black	1
UA7144	4 pole (female) black	1



Interconnecting conduit assembly To MDU, SU, FBDU and floor boxes

code	length	description	pack
UC3353	3m	Std	1
UC3355	5m	Std	1
UC4453	3m	CE	1
UC4455	5m	CE	1

*For adapting additional equipment and floor boxes to modular system.



Tap-off (Standard) to MT32 connector

code	length	rating	pack
UN8113	3m	32Amp unfused	1
UN8115	5m	32Amp unfused	1
UN8123	3m	13Amp fused	1
UN8125	5m	13Amp fused	1



Tap-off (Clean Earth) to MT32 connector

code	length	rating	pack
UN8213	3m	32Amp unfused	1
UN8215	5m	32Amp unfused	1
UN8223	3m	13Amp fused	1
UN8225	5m	13Amp fused	1

MT32 Connectors

The description 'male' (white) and 'female' (black) does not refer to the connector pins but describes and identifies the moulded connector housings. For further information please contact our Technical Team on +44 (0)1424 856688.

UNDERFLOOR TO DESK SOLUTIONS

Case Study

700 bespoke Marshall-Tufflex's floor boxes were installed at a prestigious three-storey South London office redevelopment.

The multi-million pound Edinburgh House Project, located in Kennington's conservation area, has seen the complete refurbishment of a 1960's office block into a spacious, contemporary workspace complete with a south-facing central atrium, café, seating areas and a conference suite.

Electrical contractor Andrew Aird of Sapphire Mechanical & Electrical Services, Forest Row, said: "Our specification was for a good value product from a market-leading manufacturer. Marshall-Tufflex's products fitted the bill. In particular the floor boxes were unique as we used a grey powder coated steel option that fitted the bespoke look on this project. Installation went very smoothly."

The high quality Marshall-Tufflex floor boxes, providing power and data to desk areas, have 3mm thick standard support plates that tolerate high traffic levels, while the sub-frame does not restrict wiring space and allows for fine adjustments to be made to accommodate uneven flooring. This meant that the products could be cleverly adapted to address any challenges.

Mr Aird added: "In a couple of areas we had a challenge with minimal floor void space, but we were able to use the angled plates and shallower underfloor boxes to overcome this, which was really helpful. We would definitely use these products again."

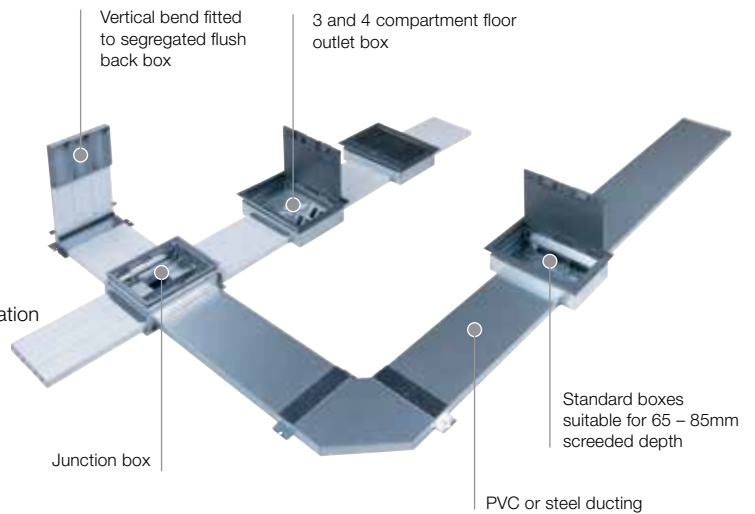


IN-SCREED FLOORING SYSTEMS

A range of floor outlet boxes, fittings and plates in galvanised steel, with choice of PVC-U or steel ducting designed to be positioned within screed flooring.

Product information

- 3 and 4 compartments (boxes come with extra divider to make 4 compartments)
- Suitable for 65-85mm screed depth
Boxes for deeper floor screed available on request
- Box tray lid suitable for standard 6mm floor finishes
- For advice on box tray lids for non-standard floor finishes please contact our Technical Team
- Adjustable for box trim height
- Grey moulded carpet trim for floor outlet boxes
- Steel trims with various finishes available
- Universal junction box with integral, fully-reversible cable segregation



Standard floor box trim
GY
GY: Grey RAL7011 (floor box trim)

Other trim finishes: Floor boxes can be provided with a variety of trim finishes such as brass, stainless steel and painted colours. For further information please contact the Technical Team on +44 (0)1424 856688.

Floor materials

Marshall-Tufflex can supply floor outlet boxes and junction boxes that are suitable for different floor materials, such as marble, stone or wood, or where a higher IP rating is required. For more information on these, please contact our Technical Team on +44 (0)1424 856688.

Basic components



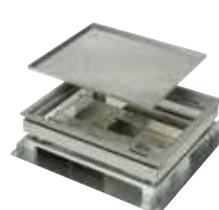
**Floor outlet box
3 and 4 compartment**

code	size	pack
USF32	357 x 257mm	1



Floor box lid assembly

code	description	pack
UMLD1	Plastic	1
UMLD3	Steel	1



**Universal junction box
(excluding adaptors)**

code	size	pack
USJ3	269 x 234mm	1



**Twin section PVC-U duct
(three ducts required per run)**

code	size	pack
MTU125	75 x 25mm	8 x 3m

Please see page 202 for the full range of accessory plates



3 Compartment steel duct

code	description	pack
USFT25	225 x 25mm	1 x 2.5m



Blank end

code	description	pack
USFB1	3 x 20mm KO	1
USFB25	6 x 25mm KO	1



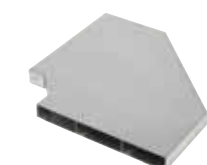
Adaptor

code	pack
USFA1	1



Coupler

code	pack
USFC1	1



**Flat bend
(excluding connector)**

code	description	pack
USFF1	steel	1
HFP125BK	PVC-U	1



**Riser
(excluding connector)**

code	description	pack
USFV1	steel	1
HVP125	PVC-U	1



Steel screeding plate

code	pack
USFSP1	1



**Segregated flush back box
280 x 150mm
Steel**

code	depth	pack
ESFBB1	35mm	1

Note: Used in place of box lid when screeding. Minimum order quantities apply

UNDERFLOOR TO DESK SOLUTIONS

ACCESSORY PLATES

Accessory plates



13Amp 2 gang DP/TE switched socket

code	description	pack
UP651	3 comp	1
UP751	4 comp	1



13Amp 2 gang DP/TE switched socket clean earth

code	description	pack
UP653	3 comp	1
UP753	4 comp	1



Double plate with 2 x 13Amp 2 gang switched socket

code	description	pack
UP751D	4 comp	1
UP753D	4 comp CE	1



13Amp 2 gang RCD unswitched socket

code	description	pack
UP660	3 comp Std	1
UP663	3 comp CE	1

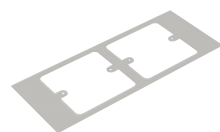


Plate to accept 2 x 1 gang accessory (M3.5 x 60.3mm)

code	description	pack
UP633	3 comp	1

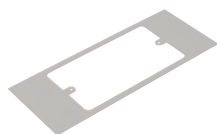


Plate to accept 1 x 2 gang accessory (M3.5 x 120.3mm)

code	description	pack
UP632	3 comp	1

Plate dimensions

3 compartment = 185 x 95mm
4 compartment = 185 x 71mm

Plate material

Plates are manufactured from plain galvanised steel to match floor boxes.



Plate to accept 2 x 1 gang accessory (M3.5 x 60.3mm)

code	description	pack
UP733	4 comp	1

Accessory overlaps adjacent plates



Plate to accept 1 x 2 gang accessory (M3.5 x 120.3mm)

code	description	pack
UP732	4 comp	1

Accessory overlaps adjacent plates



Blank plate

code	description	pack
UP621	3 comp	1
UP721	4 comp	1



Euro plate 2 gang

code	description	pack
UP615	3 comp	1
UP715	4 comp	1

Adaptor plate required
2 x 50mm x 50mm cut outs
Note: Adaptor plates are not supplied by Marshall-Tufflex



Data/voice plate 6 x RJ45

code	description	pack
UP612	3 comp	1
UP712	4 comp	1

6 x 37mm x 22mm cut outs



Data/voice plate 4 x RJ45

code	description	pack
UP610	3 comp	1
UP710	4 comp	1

4 x 37mm x 22mm cut outs



Data wave plate 4 x RJ45

code	description	pack
UP617	3 comp	1

4 x 37mm x 22mm cut outs



Data wave plate 2 x RJ45

code	description	pack
UP717	4 comp	1

2 x 37mm x 22mm cut outs

International accessory plates

It is advisable to use MTOP plates for conversion to a range of continental sockets. Please refer to page 124 for more information.



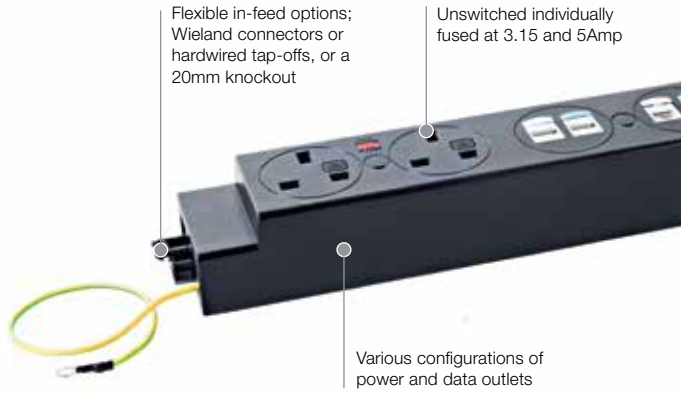
POWER AND DATA MODULES



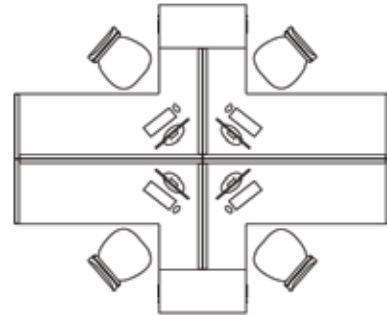
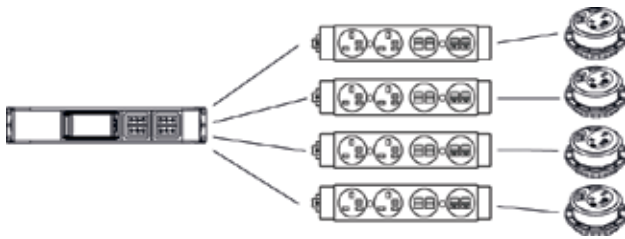
A range of power and data modules ideal for under desk mounting.

Product information

- High strength, flame retardant polycarbonate moulded modules
- Aluminium RCBO units
- Aluminium power modules
- Can be fed from wall trunking, floor boxes, grommets or powerpoles
- For single use or modules can be interlinked
- In-feed supply either by Wieland GST 18/3 connection or plug socket
- Unswitched individually fused 3.15Amp or 5Amp sockets
- 2 and 4 gang options plus the ability to link modules
- Polycarbonate power modules with twin USB points that charge up to 5 x faster than your standard PC USB port
- Desk units comply with BS 6396 for Electrical Systems in Office Furniture when powered from a plug socket outlet and with the current version of the BS 7671 Wiring Regulations when powered from a power distribution network.
- RJ45 data sockets in Cat 5e, Cat 6 or blank configuration options



Our range of power modules and RCBOs can be integrated to deliver a complete system from underfloor to desk.



Polycarbonate power modules



Power module 2G indiv fused

code	description	pack
DM5001	3.15Amp	1
DM5003	5Amp	1

Power module 4G indiv fused

code	description	pack
DM5002	3.15Amp	1
DM5004	5Amp	1

Aluminium power modules



**Power module 4G STD (Terminal)
For use with up to 13Amp supply**

code	description	pack
DM6003	3.15Amp	1
DM6005	5Amp	1

**Power module 4G CE (Terminal)
For use with up to 13Amp supply**

code	description	pack
DM6009	3.15Amp	1
DM6010	5Amp	1

**Power module 4G STD (Terminal)
For use with up to 32Amp supply**

code	description	pack
DM6002	3.15Amp	1
DM6004	5Amp	1

**Power module 4G CE (Terminal)
For use with up to 32Amp supply**

code	description	pack
DM6007	3.15Amp	1
DM6008	5Amp	1

All modules are supplied with 20mm knockout for power input

UNDERFLOOR TO DESK SOLUTIONS

Aluminium power modules



**Power module 4G
STD & 13Amp tap-off**

code	description	pack
DM6013	3.15Amp 3m tap-off	1
DM6019	3.15Amp 5m tap-off	1
DM6015	5Amp 3m tap-off	1
DM6020	5Amp 5m tap-off	1



**Power module 4G
CE & 13Amp tap-off**

code	description	pack
DM6023	3.15Amp 3m tap-off	1
DM6029	3.15Amp 5m tap-off	1
DM6025	5Amp 3m tap-off	1
DM6030	5Amp 5m tap-off	1



**Power module 4G
STD & 32Amp tap-off**

code	description	pack
DM6012	3.15Amp 3m tap-off	1
DM6022	3.15Amp 5m tap-off	1
DM6014	5Amp 3m tap-off	1
DM6024	5Amp 5m tap-off	1



**Power module 4G
CE & 32Amp tap-off**

code	description	pack
DM6017	3.15Amp 3m tap-off	1
DM6027	3.15Amp 5m tap-off	1
DM6018	5Amp 3m tap-off	1
DM6028	5Amp 5m tap-off	1

Polycarbonate power & data modules



**Module 2xpower 2xUSB
2xCat 5e**

code	description	pack
DM5030	3.15Amp	1
DM5033	5Amp	1

**Module 2xpower 2xUSB
2xCat 6**

code	description	pack
DM5031	3.15Amp	1
DM5034	5Amp	1

**Module 2xpower 2xUSB
2xblank**

code	description	pack
DM5032	3.15Amp	1
DM5035	5Amp	1

Power and Data Modules with Twin USB Fast Charger

Desk Module USB

With 5Amp output across two USB ports, our Power and Data Modules can simultaneously charge two devices at speeds comparable to, or faster than, the devices' own chargers.

- Fast charge 2 devices
- 5 Amps combined maximum output
- Up to 91% efficiency
- 5000+ USB insertion connections

The USB ports are designed to withstand the elements of a commercial environment with connectors built to withstanding over 5000 insertions.

This feature allows you to charge your devices faster, with far less power wastage through heat generation, and comply with the latest international standards on the efficiency of power supplies.



Fast charge 2 devices

UNDERFLOOR TO DESK SOLUTIONS

Aluminium RCBO16A/30mA units



RCBO 1xGST18 Female & tap-off STD

code	length	pack
DM5050	3m	1
DM5051	5m	1



RCBO 1xGST18 Female & tap-off CE

code	length	pack
DM5052	3m	1
DM5053	5m	1



RCBO 4xGST18 Female & tap-off STD

code	length	pack
DM5054	3m	1
DM5055	5m	1



RCBO 4xGST18 Female & tap-off CE

code	length	pack
DM5056	3m	1
DM5057	5m	1



RCBO 1xGST18 Female

code	pack
DM5058	1



RCBO 1xGST18 Female CE

code	pack
DM5061	1



RCBO 4xGST18 Female

code	pack
DM5059	1



RCBO 4xGST18 Female CE

code	pack
DM5060	1

All modules supplied with 20mm knockout for power input

Wieland power cables



GST18/3 F & 13A plug

code	length	pack
DM8301	1m	1
DM8302	2m	1
DM8303	3m	1



GST18/3 M/F lead

code	length	pack
DM8502	1m	1
DM8503	1.5m	1
DM8504	3m	1

Desk surface units



Desk grommet

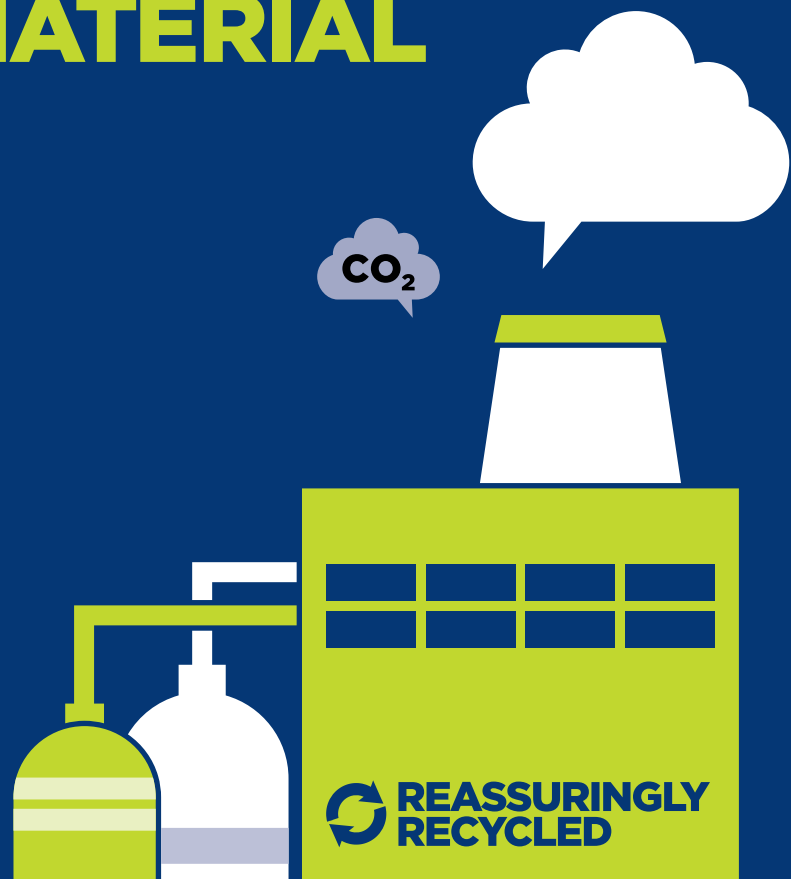
code	diameter	pack
DG1BK	92mm	1





Not only are we
reducing landfill;

**MANUFACTURING
FROM RECYCLED
PVC-U REDUCES
CARBON EMISSIONS
BY 20 TIMES VS
VIRGIN MATERIAL**



GRP LADDER AND TRAY SYSTEMS

GRP ladder and tray support systems provide robust yet lightweight cable management for industrial and commercial applications.

GRP LADDER AND TRAY SYSTEMS

GLASS REINFORCED POLYESTER (GRP)

Glass reinforced polyester (GRP) cable management systems are vitally important for use in the transport, petrochemical and construction industries where it is used to provide lightweight yet mechanically strong materials which replace heavier, more energy consuming materials such as aluminium, steel and concrete. It is a highly competent engineering material, capable of being specified for a large number of construction applications.

GRP cable management systems are well suited to aggressive environments where there might be extreme weather or high temperatures. They are extremely robust, considerably lighter than aluminium or steel, and have excellent resistance against fire and corrosion resulting in a very long life span. GRP systems have a large cable capacity, and offer fast and flexible installation solutions, with the ability of on-site assembly and configuration.

Marshall-Tufflex can offer a wide range of GRP systems including trays, ladders, ground ducts, troughing, accessories and fittings, fixings and supports.

What is RISQS?

RISQS, formerly known as Achilles Link-up, has been developed to provide a service for the qualification of suppliers for all products and services that are procured by the industry. RISQS supports Network Rail, LUL/Transport for London, train operators and other rail products and services providers in the management of supply chain risk. RISQS is an independent, third party qualification assessment of a supplier's capability to supply products and services.



Marshall-Tufflex is registered with the RISQS Railway Industry Supplier Qualification scheme

Approvals

Mechanical Behaviour

- Breaking point to NEMA FG1
- Tensile strength at break point to ISO 527-5
- Modulus of elasticity to ISO 527-5
- Accelerated aging to ISO 4892-2 & ISO 9227
- IEC 61537

Electrical behaviour

- Surface resistivity to IEC 6079-0
- Breakage voltage to IEC 60243-1
- Comparative tracking index IEC 60112
- IEC 60093

Fire resistance to DIN 4102 part 12

Linear Thermal Expansion to DIN 53752

Water Absorption to ISO 62

Environmental & sustainability



- Analysis shows GRP to have one of the best environmental impact profiles of any strong building material.
- GRP is easily dismantled and cut up to use in road metalling and can be re-used in other buildings.
- Buildings using GRP within their infrastructure are lighter and require less energy to heat; with building performance life of 40 to 50 years.
- Light weight and easy handling can result in considerable fuel savings.
- Reduction in the need for motorised cranes and platform lift vehicles.
- Use of acetone has been eliminated.
- Recycling trials for composite parts are progressing satisfactorily in several European programmes, using GRP as a source of heat energy and the resultant residue as raw material in cement manufacture.

EMI protection



- Not applicable for this material.

Fire performance



- Excellent fire performance. GRP is a self-extinguishing composition, halogen-free and with low smoke and fume properties.

Fire Behaviour

- Inflammability to IEC 60695-2-12/ UL94
- Spread of flame to BS 476 part 7 class 2 / ASTM E84 (Up to Class 1 on request)
- Fire propagation to BS 476 Part 6
- Smoke emissions to BS 6853 App B53
- Fire standard to DIN 4102 part 12
- UL 723

GRP ladder and tray systems

Marshall-Tufflex LSOH GRP systems are very robust and particularly suitable for interior and exterior areas where resistance to corrosion is a requirement. They are considerably lighter than aluminium or steel and have excellent fire performance.

Pressed tray**50 x 50mm to 400 x 80mm**

A complete range of pressed GRP trays for extended support span up to 3metres.



Page 211

Pultruded ladder**200 x 53mm to 900 x 150mm**

A pultruded ladder system for installation into tunnels, bridges, railways, underground, offshore and marine environments.



Page 217

GRP industrial support systems**for supporting large power cables**

Brackets, bolts and rails for use with other GRP systems.



Page 221

Ground ducts**250 x 140mm to 450 x 176mm**

Self-supporting systems ideal for railway applications.



Page 222

Cable troughing**150 to 250 x 150mm**

Suited to railway applications where cable ducts cannot be buried.



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Case Study

GRP is the material of choice for a wide range of cable management projects in the rail network.

With more than 200 million passenger journeys a year, durability and ease of installation were key considerations for contractors leading a multi-million pound upgrade of a high profile UK rail station.

Rail projects have some of the most challenging cable management requirements due to the harsh, and sometimes hazardous, environment of their locations. With its lightweight construction, long life span and resistance to fire and corrosion, Marshall-Tufflex's Glass Reinforced Polyester (GRP) cable management system provided the perfect solution. More than 700m of perforated GRP tray with standard covers has helped deliver power and data provision for station signalling, lighting, tannoys and surveillance systems. The installation formed part of renovations to bring old platforms back into use and extend current platforms to accommodate longer trains.



The robust product is specifically designed for challenging environments with the material effective at temperatures from -80°C to over 130°C . It is both corrosion and fire resistant with low thermal conductivity and self-extinguishing properties that make it fully compliant with fire standards and regulations.

Weighing 40% less than steel it is also easier to move around and install. The trays require fewer fasteners and benefit from interlocking and self-adjusting couplings making them quick and easy to assemble and configure on site. The flexibility of the system helped save time and labour costs, both critical in ensuing platforms were reopened on time and within budget.

Note: you may use the rule on the left of this page to check profile sizes.

GRP cable management systems incorporate non-conductive and self-extinguishing properties, as well as stability, wherever they are subjected to high levels of UV and extreme temperatures. GRP systems are ideal solutions for installation in tunnels, bridges, railways, underground, offshore and marine environments.

Rail:

Optimum safety:

- Self-extinguishing UL94 - V0
- In the event of fire, no halogen toxic fumes (fire classification: M1, i0, F0; ASTM E84, Class 2 or Class 1; BS 476 Part 7, Class 2 or 1)
- No sharp edges or burrs, from cutting or drilling

Flexibility and easy mounting:

- Reduces installation costs with unique self coupling mechanism
- No earthing required
- Very strong mechanical resistance, even with high temperature variation
- 10 times lighter than concrete
- Excellent vibration resistance



Sea:

Resists corrosion: atmospheric, UV, saline

Save installation time and costs:

- Reduces use of bolts with clip-on splice plates and fixings
- No expensive protection accessories or coatings necessary
- No sharp edges or burrs, from cutting or drilling
- Ensures strong mechanical resistance with a lighter weight than metal
- Excellent vibration resistance



Road:

Resists corrosion: combustion gas, salt

Optimum safety:

- Self-extinguishing UL94 - V0
- Does not emit halogen or smoke (fire classification: M1, i0, F0; ASTM E84, Class 2 or Class 1; BS 476 Part 7, Class 2 or 1)
- No sharp edges or burrs, from cutting or drilling

Flexibility and easy mounting:

- Reduces installation costs with unique self coupling mechanism
- Save time and money as no earthing is required
- Ensures strong mechanical resistance with a lighter weight than metal
- No expensive protection accessories or coatings necessary
- Excellent vibration resistance



Petrochemical and Process Plant Industries:

Cut down corrosion and maintenance costs

Reduce installation costs

- No earthing required
- No expensive protection accessories or coating
- No sharp edges or burrs, from cutting or drilling

Ensures strong mechanical resistance and a lighter weight

Reduces weight of structure

- Saves 40% against stainless steel
- Saves 15% against aluminium



Energy Distribution:

Very strong mechanical resistance, even with high temperature variation

No expensive protection accessories or coating necessary

Optimum safety:

- Self-extinguishing UL94 - V0
- No toxic fumes or halogen in case of fire (fire classification: M1, i0, F0; ASTM E84, Class 2 or Class 1; BS 476 Part 7, Class 2 or 1)
- No sharp edges or burrs, from cutting or drilling



STANDARD SPAN PRESSED TRAY

GRP standard span cable tray and fittings are pressed from glass reinforced polyester resin, using hot moulding technology and facilitating the manufacture of smooth intricate shapes. The system is ideal for installation into tunnels, bridges, railways, underground, offshore and marine environments.



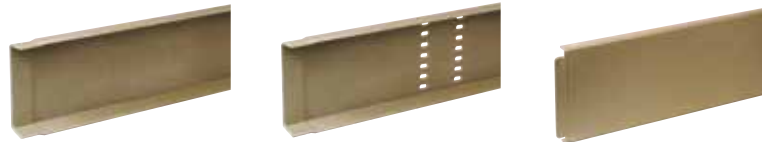
Reduced use of bolts

GRP is a non-conductive material with excellent fire performance and high corrosion resistance

Product information

- A variety of sizes from 50 x 50mm to 400 x 80mm
- 2.5 times lighter than steel
- Completely corrosion resistant against salt spray, H25, acid build up from exhaust gases and brake dust along roads and railways
- No need for painting or protective coating
- Classified LS0H material
- Self-extinguishing
- Low conductivity
- Earthing not required
- Antimagnetic and resistant to electromagnetic pulses
- Effective at temperatures between -80°C to +130°C
- Lower life cycle cost
- Fast installation with fewer fasteners
- Easy to cut and drill
- Load characteristics in accordance with IEC 61537 (for load or other calculations and values, please refer to the technical section)

Basic components



Non-perforated pressed tray – 3 metres

code	size	pack
KK5050	50 x 50mm	1 x 3m
KK10050	100 x 50mm	1 x 3m
KK15050	150 x 50mm	1 x 3m
KK20050	200 x 50mm	1 x 3m
KK30050	300 x 50mm	1 x 3m
KK10080	100 x 80mm	1 x 3m
KK15080	150 x 80mm	1 x 3m
KK20080	200 x 80mm	1 x 3m
KK30080	300 x 80mm	1 x 3m
KK40080	400 x 80mm	1 x 3m

Perforated pressed tray – 3 metres

code	size	pack
KKL5050	50 x 50mm	1 x 3m
KKL10050	100 x 50mm	1 x 3m
KKL15050	150 x 50mm	1 x 3m
KKL20050	200 x 50mm	1 x 3m
KKL30050	300 x 50mm	1 x 3m
KKL10080	100 x 80mm	1 x 3m
KKL15080	150 x 80mm	1 x 3m
KKL20080	200 x 80mm	1 x 3m
KKL30080	300 x 80mm	1 x 3m
KKL40080	400 x 80mm	1 x 3m

Tray cover – 3 metres

code	to fit	pack
KKD50	50 x 50mm	1 x 3m
KKD100	100 x 50/80mm	1 x 3m
KKD150	150 x 50/80mm	1 x 3m
KKD200	200 x 50/80mm	1 x 3m
KKD300	300 x 50/80mm	1 x 3m
KKD400	400 x 80mm	1 x 3m

See page 214 for quick reference chart

Fittings



Tray cover clip

code	size	pack
DF50	50mm	50
DF80	80mm	50

Tray end cap

code	to fit	pack
KKKE5050	50 x 50mm	1
KKKE10050	100 x 50mm	1
KKKE15050	150 x 50mm	1
KKKE20050	200 x 50mm	1
KKKE30050	300 x 50mm	1
KKKE10080	100 x 80mm	1
KKKE15080	150 x 80mm	1
KKKE20080	200 x 80mm	1
KKKE30080	300 x 80mm	1
KKKE40080	400 x 80mm	1

Tray internal bend base

code	to fit	pack
KKBI5050	50 x 50mm	1
KKBI10050	100 x 50mm	1
KKBI15050	150 x 50mm	1
KKBI20050	200 x 50mm	1
KKBI30050	300 x 50mm	1
KKBI10080	100 x 80mm	1
KKBI15080	150 x 80mm	1
KKBI20080	200 x 80mm	1
KKBI30080	300 x 80mm	1
KKBI40080	400 x 80mm	1

Tray internal bend cover

code	to fit	pack
KKBID5050	50 x 50mm	1
KKBID10050	100 x 50mm	1
KKBID15050	150 x 50mm	1
KKBID20050	200 x 50mm	1
KKBID30050	300 x 50mm	1
KKBID10080	100 x 80mm	1
KKBID15080	150 x 80mm	1
KKBID20080	200 x 80mm	1
KKBID30080	300 x 80mm	1
KKBID40080	400 x 80mm	1



Tray external bend base

code	to fit	pack
KKBA5050	50 x 50mm	1
KKBA10050	100 x 50mm	1
KKBA15050	150 x 50mm	1
KKBA20050	200 x 50mm	1
KKBA30050	300 x 50mm	1
KKBA10080	100 x 80mm	1
KKBA15080	150 x 80mm	1
KKBA20080	200 x 80mm	1
KKBA30080	300 x 80mm	1
KKBA40080	400 x 80mm	1



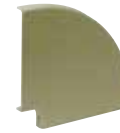
Tray external bend cover

code	to fit	pack
KKBAD5050	50 x 50mm	1
KKBAD10050	100 x 50mm	1
KKBAD15050	150 x 50mm	1
KKBAD20050	200 x 50mm	1
KKBAD30050	300 x 50mm	1
KKBAD10080	100 x 80mm	1
KKBAD15080	150 x 80mm	1
KKBAD20080	200 x 80mm	1
KKBAD30080	300 x 80mm	1
KKBAD40080	400 x 80mm	1



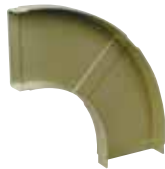
Tray flat angle base (small radius)

code	to fit	pack
KKW5050	50 x 50mm	1
KKW10050	100 x 50mm	1
KKW15050	150 x 50mm	1
KKW20050	200 x 50mm	1
KKW30050	300 x 50mm	1
KKW10080	100 x 80mm	1
KKW15080	150 x 80mm	1
KKW20080	200 x 80mm	1
KKW30080	300 x 80mm	1
KKW40080	400 x 80mm	1



Tray flat angle cover (small radius)

code	to fit	pack
KKWD50	50 x 50mm	1
KKWD100	100 x 50/80mm	1
KKWD150	150 x 50/80mm	1
KKWD200	200 x 50/80mm	1
KKWD300	300 x 50/80mm	1
KKWD400	400 x 80mm	1



Tray flat angle base (large radius)

code	to fit	pack
KKB15050	150 x 50mm	1
KKB20050	200 x 50mm	1
KKB30050	300 x 50mm	1
KKB10080	100 x 80mm	1
KKB15080	150 x 80mm	1
KKB20080	200 x 80mm	1
KKB30080	300 x 80mm	1
KKB40080	400 x 80mm	1



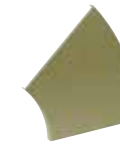
Tray flat angle cover (large radius)

code	to fit	pack
KKBD150	150 x 50/80mm	1
KKBD200	200 x 50/80mm	1
KKBD300	300 x 50/80mm	1
KKBD100	100 x 80mm	1
KKBD400	400 x 80mm	1



Tray flat angle 135° base (large radius)

code	to fit	pack
KKC10080	100 x 80mm	1
KKC15080	150 x 80mm	1
KKC20080	200 x 80mm	1
KKC30080	300 x 80mm	1
KKC40080	400 x 80mm	1



Tray flat angle 135° cover (large radius)

code	to fit	pack
KKCD100	100 x 80mm	1
KKCD150	150 x 80mm	1
KKCD200	200 x 80mm	1
KKCD300	300 x 80mm	1
KKCD400	400 x 80mm	1



Tray flat tee base (small radius)

code	to fit	pack
KKSS5050	50 x 50mm	1
KKSS10050	100 x 50mm	1
KKSS15050	150 x 50mm	1
KKSS20050	200 x 50mm	1
KKSS30050	300 x 50mm	1
KKSS10080	100 x 80mm	1
KKSS15080	150 x 80mm	1
KKSS20080	200 x 80mm	1
KKSS30080	300 x 80mm	1



Tray flat tee cover (small radius)

code	to fit	pack
KKSSD50	50 x 50mm	1
KKSSD100	100 x 50mm	1
KKSSD150	150 x 50mm	1
KKSSD200	200 x 50mm	1
KKSSD300	300 x 50mm	1
KKSSD100	100 x 80mm	1
KKSSD150	150 x 80mm	1
KKSSD200	200 x 80mm	1
KKSSD300	300 x 80mm	1



Tray flat tee base (large radius)

code	to fit	pack
KKST10050	100 x 50mm	1
KKST15050	150 x 50mm	1
KKST20050	200 x 50mm	1
KKST30050	300 x 50mm	1
KKST10080	100 x 80mm	1
KKST15080	150 x 80mm	1
KKST20080	200 x 80mm	1
KKST30080	300 x 80mm	1
KKST40080	400 x 80mm	1



Tray flat tee cover (large radius)

code	to fit	pack
KKSTD100	100 x 50/80mm	1
KKSTD150	150 x 50/80mm	1
KKSTD200	200 x 50/80mm	1
KKSTD300	300 x 50/80mm	1
KKSTD400	400 x 80mm	1

Fittings



Tray offset base set

code	to fit	pack
KKET10080	100 x 80mm	1
KKET15080	150 x 80mm	1
KKET20080	200 x 80mm	1
KKET30080	300 x 80mm	1
KKET40080	400 x 80mm	1



Tray offset cover set

code	to fit	pack
KKETD10080	100 x 80mm	1
KKETD15080	150 x 80mm	1
KKETD20080	200 x 80mm	1
KKETD30080	300 x 80mm	1
KKETD40080	400 x 80mm	1



Tray reducer LH base

code	reduction	pack
KKRL20080	200 to 100	1
KKRL30080	300 to 200	1
KKRL40080	400 to 300	1



Tray reducer LH cover

code	reduction	pack
KKRLD200	200 to 100	1
KKRLD300	300 to 200	1
KKRLD400	400 to 300	1



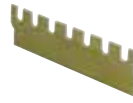
Tray reducer RH base

code	reduction	pack
KKRR20080	200 to 100	1
KKRR30080	300 to 200	1
KKRR40080	400 to 300	1



Tray reducer RH cover

code	reduction	pack
KKRRD200	200 to 100	1
KKRRD300	300 to 200	1
KKRRD400	400 to 300	1



Tray pin rack

code	to fit	pack
KR100	100 x 50/80mm	1
KR150	150 x 50/80mm	1
KR200	200 x 50/80mm	1
KR300	300 x 50/80mm	1
KR400	400 x 80mm	1

Components



Tray divider – 3 metres

code	to fit	pack
KKT50	100 x 50mm	1
KKT80	100 x 80mm	1

* 3 x M616/V4A per length to fix to tray

Cover clips

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Because GRP expands in heat these unique clips have been developed to ensure the lid remains firmly in place, even when subjected to extreme heat expansion. The clips are for use with the GRP tray and ladder systems and will prevent the lid from being displaced.



GRP cover clips

code	pack
DF50	50
DF80	50

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Technical Information

Quick reference chart

Standard span pressed tray

Tray/trunking component chart



Length: 3 metres

Pack 1

50 x 50mm tray

Non-perforated pressed GRP Tray	Perforated pressed GRP tray	Cover	Cover clip	Divider	End cap	Internal bend	
						Base	Cover

KK5050	KKL5050	KKD50	DF50	KKT50	KKKE5050	KKBI5050	KKBID5050
--------	---------	-------	------	-------	----------	----------	-----------

100 x 50mm tray

KK10050	KKL10050	KKD100	DF50	KKT50	KKKE10050	KKBI10050	KKBID10050
---------	----------	--------	------	-------	-----------	-----------	------------

150 x 50mm tray

KK15050	KKL15050	KKD150	DF50	KKT50	KKKE15050	KKBI15050	KKBID15050
---------	----------	--------	------	-------	-----------	-----------	------------

200 x 50mm tray

KK20050	KKL20050	KKD200	DF50	KKT50	KKKE20050	KKBI20050	KKBID20050
---------	----------	--------	------	-------	-----------	-----------	------------

300 x 50mm tray

KK30050	KKL30050	KKD300	DF50	KKT50	KKKE30050	KKBI30050	KKBID30050
---------	----------	--------	------	-------	-----------	-----------	------------

100 x 80mm tray

KK10080	KKL10080	KKD100	DF80	KKT80	KKKE10080	KKBI10080	KKBID10080
---------	----------	--------	------	-------	-----------	-----------	------------

150 x 80mm tray

KK15080	KKL15080	KKD150	DF80	KKT80	KKKE15080	KKBI15080	KKBID15080
---------	----------	--------	------	-------	-----------	-----------	------------

200 x 80mm tray

KK20080	KKL20080	KKD200	DF80	KKT80	KKKE20080	KKBI20080	KKBID20080
---------	----------	--------	------	-------	-----------	-----------	------------

300 x 80mm tray

KK30080	KKL30080	KKD300	DF80	KKT80	KKKE30080	KKBI30080	KKBID30080
---------	----------	--------	------	-------	-----------	-----------	------------

400 x 80mm tray

KK40080	KKL40080	KKD400	DF80	KKT80	KKKE40080	KKBI40080	KKBID40080
---------	----------	--------	------	-------	-----------	-----------	------------

Product Information

All products are supplied in pack quantities of one, except cover clips and fixing bolts.

A range of Pressed GRP Trays with 110mm wall height is also available on request.

Complete range of Pultruded Trays for extended support span up to 3 metres in 50mm and 80mm wall heights are also available on request.

Please contact us on +44 (0)1424 856600 for a lead time.

Tray/trunking component chart



External bend		Flat angle (small radius)		Flat angle (large radius)		Flat angle 135° (large radius)		Offset	
Base	Cover	Base	Cover	Base	Cover	Base	Cover	Base set	Cover set
KKBA5050	KKBAD5050	KKW5050	KKWD50	-	-	-	-	-	-
KKBA10050	KKBAD10050	KKW10050	KKWD100	-	-	-	-	-	-
KKBA15050	KKBAD15050	KKW15050	KKWD150	KKB15050	KKBD150	-	-	-	-
KKBA20050	KKBAD20050	KKW20050	KKWD200	KKB20050	KKBD200	-	-	-	-
KKBA30050	KKBAD30050	KKW30050	KKWD300	KKB30050	KKBD300	-	-	-	-
KKBA10080	KKBAD10080	KKW10080	KKWD100	KKB10080	KKBD100	KKC10080	KKCD100	KKET10080	KKETD10080
KKBA15080	KKBAD15080	KKW15080	KKWD150	KKB15080	KKBD150	KKC15080	KKCD150	KKET15080	KKETD15080
KKBA20080	KKBAD20080	KKW20080	KKWD200	KKB20080	KKBD200	KKC20080	KKCD200	KKET20080	KKETD20080
KKBA30080	KKBAD30080	KKW30080	KKWD300	KKB30080	KKBD300	KKC30080	KKCD300	KKET30080	KKETD30080
KKBA40080	KKBAD40080	KKW40080	KKWD400	KKB40080	KKBD400	KKC40080	KKCD400	KKET40080	KKETD40080

GRP LADDER AND TRAY

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Technical Information

Quick reference chart

Standard span pressed tray

Tray/trunking component chart



Length: 3 metres

Pack 1

50 x 50mm tray

Flat tee (small radius)		Flat tee (large radius)		Reducer left hand		Reducer right hand		Pin rack
Base	Cover	Base	Cover	Base	Cover	Base	Cover	

KKSS5050	KKSSD50	-	-	-	-	-	-	-
----------	---------	---	---	---	---	---	---	---

100 x 50mm tray

KKSS10050	KKSSD100	KKST10050	KKSTD100	-	-	-	-	KR100
-----------	----------	-----------	----------	---	---	---	---	-------

150 x 50mm tray

KKSS15050	KKSSD150	KKST15050	KKSTD150	-	-	-	-	KR150
-----------	----------	-----------	----------	---	---	---	---	-------

200 x 50mm tray

KKSS20050	KKSSD200	KKST20050	KKSTD200	-	-	-	-	KR200
-----------	----------	-----------	----------	---	---	---	---	-------

300 x 50mm tray

KKSS30050	KKSSD300	KKST30050	KKSTD300	-	-	-	-	KR300
-----------	----------	-----------	----------	---	---	---	---	-------

100 x 80mm tray

KKSS10080	KKSSD100	KKST10080	KKSTD100	-	-	-	-	KR100
-----------	----------	-----------	----------	---	---	---	---	-------

150 x 80mm tray

KKSS15080	KKSSD150	KKST15080	KKSTD150	-	-	-	-	KR150
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200 x 80mm tray

KKSS20080	KKSSD200	KKST20080	KKSTD200	KKRL20080 200 to 100mm	KKRLD200	KKRR20080 200 to 100mm	KKRRD200	KR200
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300 x 80mm tray

KKSS30080	KKSSD300	KKST30080	KKSTD300	KKRL30080 300 to 200mm	KKRLD300	KKRR30080 300 to 200mm	KKRRD300	KR300
-----------	----------	-----------	----------	---------------------------	----------	---------------------------	----------	-------

400 x 80mm tray

-	-	KKST40080	KKSTD400	KKRL40080 400 to 300mm	KKRLD400	KKRR40080 400 to 300mm	KKRRD400	KR400
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Product Information

All products are supplied in pack quantities of one, except cover clips and fixing bolts.

A range of Pressed GRP Trays with 110mm wall height is also available on request.

Complete range of Pultruded Trays for extended support span up to 3 metres in 50mm and 80mm wall heights are also available on request.

Please contact us on +44 (0)1424 856600 for a lead time.

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Technical Information

PULTRUDED LADDER

GRP pultruded ladders are manufactured by pultrusion, a process using layers of mats and rovings injected with resin and pulled through a die in a continuous operation. The system is ideal for installation into tunnels, bridges, railways, underground, offshore and marine environments.

Product information

- A variety of sizes from 200 x 53mm to 900 x 150mm
- 2.5 times lighter than steel
- Completely corrosion resistant against salt spray, H25, acid build up from exhaust gases and brake dust along roads and railways
- No need for painting or protective coating
- Classified LS0H material
- Self-extinguishing
- Low conductivity
- Earthing not required
- Antimagnetic and resistant to electromagnetic pulses
- Effective at temperatures between -80°C to +130°C
- Lower life cycle cost
- Fast installation with fewer fasteners
- Easy to cut and drill
- Load characteristics in accordance with IEC 61537
(for load or other calculations and values, please refer to the technical section)



Basic components



Ladder

code	size	pack
UL20053	200 x 53mm	1x3m
UL20080	200 x 80mm	1x3m
UL150100	150 x 100mm	1x3m
UL300100	300 x 100mm	1x3m
UL400100	400 x 100mm	1x3m
UL600100	600 x 100mm	1x3m
UL900100	900 x 100mm	1x3m
UL150150	150 x 150mm	1x3m
UL300150	300 x 150mm	1x3m
UL400150	400 x 150mm	1x3m
UL600150	600 x 150mm	1x3m
UL900150	900 x 150mm	1x3m

Ladder cover

code	to fit	pack
KKD200	200 x 53mm	1x3m
KKD200	200 x 80mm	1x3m
KKD150	150 x 100mm	1x3m
KKD300	300 x 100mm	1x3m
KKD400	400 x 100mm	1x3m
KKD600	600 x 100mm	1x3m
KKD900	900 x 100mm	1x1.5m
KKD150	150 x 150mm	1x3m
KKD300	300 x 150mm	1x3m
KKD400	400 x 150mm	1x3m
KKD600	600 x 150mm	1x3m
KKD900	900 x 150mm	1x1.5m

See page 219 for quick reference chart

Fittings



Ladder cover clip

code	pack
DF50	50
DF80	50
DF100	50
DF150	50

Ladder horizontal coupler* (Set of 2 pieces)

code	pack
ULIH53	1
ULIH80	1
ULIH100	1
ULIH150	1

* Foldable splice plate requires 4 x M616/V4A (Nut, bolt and washer) Please note M616/V4A is sold in packs of 100

Ladder int/ext angle base

code	to fit	pack
ULBA20053	200 x 53mm	1
ULBA20080	200 x 80mm	1
ULBA150100	150 x 100mm	1
ULBA300100	300 x 100mm	1
ULBA400100	400 x 100mm	1
ULBA600100	600 x 100mm	1
ULBA900100	900 x 100mm	1
ULBA150150	150 x 150mm	1
ULBA300150	300 x 150mm	1
ULBA400150	400 x 150mm	1
ULBA600150	600 x 150mm	1
ULBA900150	900 x 150mm	1

Ladder int/ext angle cover

code	to fit	pack
ULBAD20053	200 x 53mm	1
ULBAD20080	200 x 80mm	1
ULBAD150100	150 x 100mm	1
ULBAD300100	300 x 100mm	1
ULBAD400100	400 x 100mm	1
ULBAD600100	600 x 100mm	1
ULBAD900100	900 x 100mm	1
ULBAD150150	150 x 150mm	1
ULBAD300150	300 x 150mm	1
ULBAD400150	400 x 150mm	1
ULBAD600150	600 x 150mm	1
ULBAD900150	900 x 150mm	1

GRP LADDER AND TRAY

Fittings



Ladder flat angle 90° base

code	to fit	pack
ULB20053	200 x 53mm	1
ULB20080	200 x 80mm	1
ULB150100	150 x 100mm	1
ULB300100	300 x 100mm	1
ULB400100	400 x 100mm	1
ULB600100	600 x 100mm	1
ULB900100	900 x 100mm	1
ULB150150	150 x 150mm	1
ULB300150	300 x 150mm	1
ULB400150	400 x 150mm	1
ULB600150	600 x 150mm	1
ULB900150	900 x 150mm	1



Ladder flat angle 90° cover

code	to fit	pack
ULBD200	200 x 53/80mm	1
ULBD150	150 x 100/150mm	1
ULBD300	300 x 100/150mm	1
ULBD400	400 x 100/150mm	1
ULBD600	600 x 100/150mm	1
ULBD900	900 x 100/150mm	1



Ladder flat tee base

code	to fit	pack
ULTE20053	200 x 53mm	1
ULTE20080	200 x 80mm	1
ULTE150100	150 x 100mm	1
ULTE300100	300 x 100mm	1
ULTE400100	400 x 100mm	1
ULTE600100	600 x 100mm	1
ULTE900100	900 x 100mm	1
ULTE150150	150 x 150mm	1
ULTE300150	300 x 150mm	1
ULTE400150	400 x 150mm	1
ULTE600150	600 x 150mm	1
ULTE900150	900 x 150mm	1



Ladder flat tee cover

code	to fit	pack
ULTED200	200 x 53/80mm	1
ULTED150	150 x 100/150mm	1
ULTED300	300 x 100/150mm	1
ULTED400	400 x 100/150mm	1
ULTED600	600 x 100/150mm	1
ULTED900	900 x 100/150mm	1



Ladder flat crossover base

code	to fit	pack
ULX20053	200 x 53mm	1
ULX20080	200 x 80mm	1
ULX150100	150 x 100mm	1
ULX300100	300 x 100mm	1
ULX400100	400 x 100mm	1
ULX600100	600 x 100mm	1
ULX900100	900 x 100mm	1
ULX150150	150 x 150mm	1
ULX300150	300 x 150mm	1
ULX400150	400 x 150mm	1
ULX600150	600 x 150mm	1
ULX900150	900 x 150mm	1



Ladder flat crossover cover

code	to fit	pack
ULXD200	200 x 53/80mm	1
ULXD150	150 x 100/150mm	1
ULXD300	300 x 100/150mm	1
ULXD400	400 x 100/150mm	1
ULXD600	600 x 100/150mm	1
ULXD900	900 x 100/150mm	1



Ladder reducer

code	to fit ladder depth	Reduction achieved	pack
ULR15053	53mm	150mm	1
ULR15080	80mm	150mm	1
ULR100100	100mm	100mm	1
ULR200100	100mm	200mm	1
ULR300100	100mm	300mm	1
ULR200150	150mm	200mm	1
ULR300150	150mm	300mm	1
ULR500150	150mm	500mm	1



Vertical variable angle plate (Set of 2 pieces)

code	size	pack
ULIV53	53mm	1
ULIV80	80mm	1
ULIV100	100mm	1
ULIV150	150mm	1



Ladder hold down clamp*

code	pack
ULKGHA	1

* ULKGHA requires 1 x M1040V4AHEX

Components

Quick reference chart
Pultruded ladder

Ladder component chart



Length: 3 metres

Pack 1

(width x height)

200 x 53mm

200 x 80mm

150 x 100mm

300 x 100mm

400 x 100mm

600 x 100mm

900 x 100mm

150 x 150mm

300 x 150mm

400 x 150mm

600 x 150mm

900 x 150mm

	Ladder	Cover	Cover clip	Flat 90° angle Base	Cover	Int/Ext angle Base	Int/Ext 90° angle Cover
200 x 53mm	UL20053	KKD200	DF50	ULB20053	ULBD200	ULBA20053	ULBAD20053
200 x 80mm	UL20080	KKD200	DF80	ULB20080	ULBD200	ULBA20080	ULBAD20080
150 x 100mm	UL150100	KKD150	DF100	ULB150100	ULBD150	ULBA150100	ULBAD150100
300 x 100mm	UL300100	KKD300	DF100	ULB300100	ULBD300	ULBA300100	ULBAD300100
400 x 100mm	UL400100	KKD400	DF100	ULB400100	ULBD400	ULBA400100	ULBAD400100
600 x 100mm	UL600100	KKD600	DF100	ULB600100	ULBD600	ULBA600100	ULBAD600100
900 x 100mm	UL900100	KKD900	DF100	ULB900100	ULBD900	ULBA900100	ULBAD900100
150 x 150mm	UL150150	KKD150	DF150	ULB150150	ULBD150	ULBA150150	ULBAD150150
300 x 150mm	UL300150	KKD300	DF150	ULB300150	ULBD300	ULBA300150	ULBAD300150
400 x 150mm	UL400150	KKD400	DF150	ULB400150	ULBD400	ULBA400150	ULBAD400150
600 x 150mm	UL600150	KKD600	DF150	ULB600150	ULBD600	ULBA600150	ULBAD600150
900 x 150mm	UL900150	KKD900	DF150	ULB900150	ULBD900	ULBA900150	ULBAD900150

Product Information

All products are supplied in pack quantities of one, except cover clips and fixing bolts.

Additional ladder widths in wall heights 53mm, 80mm, 100mm and 150mm are available on request.

6 metre lengths are available on request.

Please contact us on +44 (0)1424 856600 for a lead time.



Quick reference chart

Pultruded ladder

Ladder component chart



Length: 3 metres

Pack 1

200 x 53mm

Flat tee Base	Flat tee Cover	Flat crossover Base	Flat crossover Cover	Horizontal coupler (Set of 2 pieces)	Vertical variable angle plate (Set of 2 pieces)	Ladder clamp to support
ULTE20053	ULTED200	ULX20053	ULXD200	*ULIH53	ULIV53	+ULKGHA

200 x 80mm

ULTE20080	ULTED200	ULX20080	ULXD200	*ULIH80	ULIV80	+ULKGHA
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150 x 100mm

ULTE150100	ULTED150	ULX150100	ULXD150	*ULIH100	ULIV100	+ULKGHA
------------	----------	-----------	---------	----------	---------	---------

300 x 100mm

ULTE300100	ULTED300	ULX300100	ULXD300	*ULIH100	ULIV100	+ULKGHA
------------	----------	-----------	---------	----------	---------	---------

400 x 100mm

ULTE400100	ULTED400	ULX400100	ULXD400	*ULIH100	ULIV100	+ULKGHA
------------	----------	-----------	---------	----------	---------	---------

600 x 100mm

ULTE600100	ULTED600	ULX600100	ULXD600	*ULIH100	ULIV100	+ULKGHA
------------	----------	-----------	---------	----------	---------	---------

900 x 100mm

ULTE900100	ULTED900	ULX900100	ULXD900	*ULIH100	ULIV100	+ULKGHA
------------	----------	-----------	---------	----------	---------	---------

150 x 150mm

ULTE150150	ULTED150	ULX150150	ULXD150	*ULIH150	ULIV150	+ULKGHA
------------	----------	-----------	---------	----------	---------	---------

300 x 150mm

ULTE300150	ULTED300	ULX300150	ULXD300	*ULIH150	ULIV150	+ULKGHA
------------	----------	-----------	---------	----------	---------	---------

400 x 150mm

ULTE400150	ULTED400	ULX400150	ULXD400	*ULIH150	ULIV150	+ULKGHA
------------	----------	-----------	---------	----------	---------	---------

600 x 150mm

ULTE600150	ULTED600	ULX600150	ULXD600	*ULIH150	ULIV150	+ULKGHA
------------	----------	-----------	---------	----------	---------	---------

900 x 150mm

ULTE900150	ULTED900	ULX900150	ULXD900	*ULIH150	ULIV150	+ULKGHA
------------	----------	-----------	---------	----------	---------	---------

Product Information

- * Foldable splice plate requires 4 x M616/V4A
- + ULKGHA requires 1 x M1040V4AHEX

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Technical Information

SUPPORT SYSTEMS

Quick reference chart

Support systems for tray and ladder

		Support system component chart						
		GRP Systems			Stainless steel 316			
								
Pack		FPAM Bracket	Bracket	Adj. rail (GRP) 45 x 45 x 2000mm	Clamp bolt assembly S/S M10 x 30mm	H/D Bracket Type 'A' S/S	Adj. rail (S/S) 40 x 40 x 2000mm	Clamp bolt assembly S/S M10 x 30mm
100mm	1	FPAM100	FPAP100AC A	FPAR2000AC	FPBGV10/V4A	–	ASSV2000	BGSV
150mm		–	FPAP150AC A	FPAR2000AC	FPBGV10/V4A	–	ASSV2000	BGSV
200mm		FPAM200	FPAP200AC A	FPAR2000AC	FPBGV10/V4A	AV200S	ASSV2000	BGSV
250mm		FPAM250	FPAP250AC A	FPAR2000AC	FPBGV10/V4A	AV250S	ASSV2000	BGSV
300mm		FPAM300	FPAP300AC A	FPAR2000AC	FPBGV10/V4A	AV300S	ASSV2000	BGSV
400mm		–	FPAP400AC B	FPAR2000AC	FPBGV10/V4A	AV400S	ASSV2000	BGSV
500mm		–	FPAP500AC B	FPAR2000AC	FPBGV10/V4A	AV500S	ASSV2000	BGSV
600mm		–	FPAP600AC B	FPAR2000AC	FPBGV10/V4A	AV600S	ASSV2000	BGSV

Product Information

All products are supplied in pack quantities of one.
Other brackets and supports available on request.
Please contact us on +44 (0)1424 856600 for a lead time.

GRP LADDER AND TRAY



GROUND DUCTS AND PROFILES

GRP ground ducts and profiles are ideal for railway applications wherever below ground installations are required.

Product information

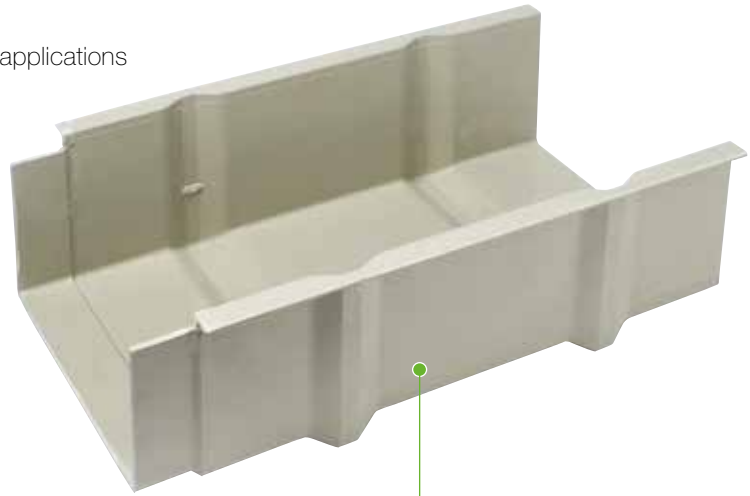
Ducts

- 250 x 140mm to 450 x 176mm
- Rigid and self-supporting
- 3 times lighter than GRC (Glass fibre Reinforced Concrete)
- 10 times lighter than concrete
- 2.5 times lighter than steel
- Impact and frost resistant
- Easy to handle and load

Profile

- 36 x 35mm to 143 x 53mm
- Avoids ballast falling into ducts
- Ensures perfect positioning of ground duct covers
- Increases capacity of existing concrete ground ducts
- High mechanical and corrosion performance

For information on other available dimensions, please call our Technical Team on +44 (0)1424 856688



GRP is a non-conductive material with excellent fire performance and high corrosion resistance.

Ground ducts and profiles



Duct base 2500mm

code	size	pack
BK200140	250 x 140mm	1
BK300176	350 x 176mm	1
BK400176	450 x 176mm	1

Cover 1250mm

code	to fit	pack
BKDR200	250 x 140mm	1
BKDR300	350 x 176mm	1
BKDR400	450 x 176mm	1

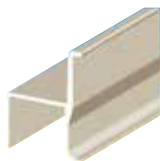


Clip for cover mounting

code	to fit	pack
DF94/4	250 x 140mm	1
DF94/4	350 x 176mm	1
DF94/4	450 x 176mm	1

Set of clips and hinge for articulate cover mounting

code	to fit	pack
DF94/C	250 x 140mm	1
DF94/C	350 x 176mm	1
DF94/C	450 x 176mm	1



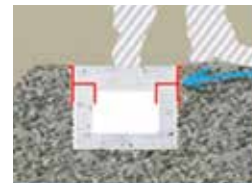
Ground duct profile

code	to fit	pack
PR3635	36 x 35mm	1
PR5045	50 x 45mm	1
PR5555	55 x 55mm	1

Ground duct A profile

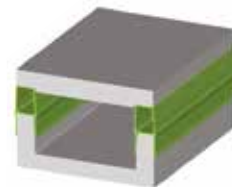
code	to fit	pack
PR5080	143 x 53mm	1

Ground duct profile



Ground duct A profile

- Increases cable capacity of existing concrete ground ducts
- High mechanical and corrosion performance
- Highly effective at minimum cost



GRP LADDER AND TRAY

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Technical Information

CABLE TROUGHING

GRP cable troughing is ideally suited to railway applications where cable ducts cannot be buried.

Product information

- 150 and 250 x 150mm
- Self-supporting base
- High mechanical loading capacity
- One post every 6m
- Lightweight product
- Only one person required for installation

For further information please call our Technical Team on +44 (0)1424 856688



GRP is a non-conductive material with excellent fire performance and high corrosion resistance

Basic components



Base and pre-mounted connector 6M

code	size	pack
SP150150	150 x 150mm	1
SP250150	250 x 150mm	1



U-Shaped connector

code	to fit	pack
SPIH150150	150 x 150mm	1
SPIH250150	250 x 150mm	1



Splice plate

code	to fit	pack
KKIH50	150 x 150mm	1



Cable trough covers

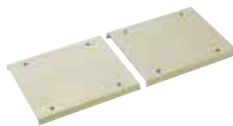
code	to fit	pack
KKDL150	150 x 150mm	1
KKDL250	250 x 150mm	1

Fittings



Internal vertical elbow 15°

code	size	pack
SPBI150	150 x 150mm	1
SPBI250	250 x 150mm	1



Cover for internal vertical elbow 15°

code	to fit	pack
SPBID150	150 x 150mm	1
SPBID250	250 x 150mm	1



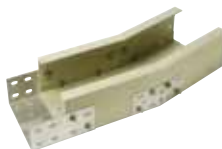
External vertical elbow 15°

code	size	pack
SPBA150	150 x 150mm	1
SPBA250	250 x 150mm	1



Cover for external vertical elbow 15°

code	to fit	pack
SPBAD150	150 x 150mm	1
SPBAD250	250 x 150mm	1



Horizontal elbow 15°

code	size	pack
SPB150	150 x 150mm	1
SPB250	250 x 150mm	1



Cover for horizontal elbow 15°

code	to fit	pack
SPBD150	150 x 150mm	1
SPBD250	250 x 150mm	1



Fittings

**Steel post 1500mm**

code	to fit	pack
SPP100150	150/250 x 150mm	1

**Steel post 2000mm**

code	to fit	pack
SPP100200	150/250 x 150mm	1

**Steel post 2500mm**

code	to fit	pack
SPP100250	150/250 x 150mm	1

**Steel mounting plate**

code	to fit	pack
SPC100150	150 x 150mm	1
SPC100250	250 x 150mm	1

**HDG steel cable out fitting with bolts**

code	to fit	pack
SPKA	150/250 x 150mm	1

**316 SS bolts and nuts for SPIH/KKIH**

code	to fit	pack
SPM1025	for 150/250 x 150mm	1

**HDG steel bolts, nuts and U-shaped washers**

code	to fit	pack
SPM1025/HDG	150/250 x 150mm	1

Case Study

GRP cable management proves perfect solution for Jersey's historic rail tunnels

High humidity levels and potential fire risks posed a cable management specification challenge during work at Jersey's famous St Aubin's wartime tunnels.

Corroded casing needed replacing within the tunnels because it was considered a fire risk and required frequent repair due to high humidity levels. GRP cable management proved the perfect solution thanks to its corrosion resistance and excellent fire safety credentials.

For this project GRP tray was suspended from ceilings to carry a wide range of cables, including PVC/SWA sub main, lighting SY sub-circuit, fire alarm and low voltage signal cables. Light fittings have also been fixed to the trunking's underside.

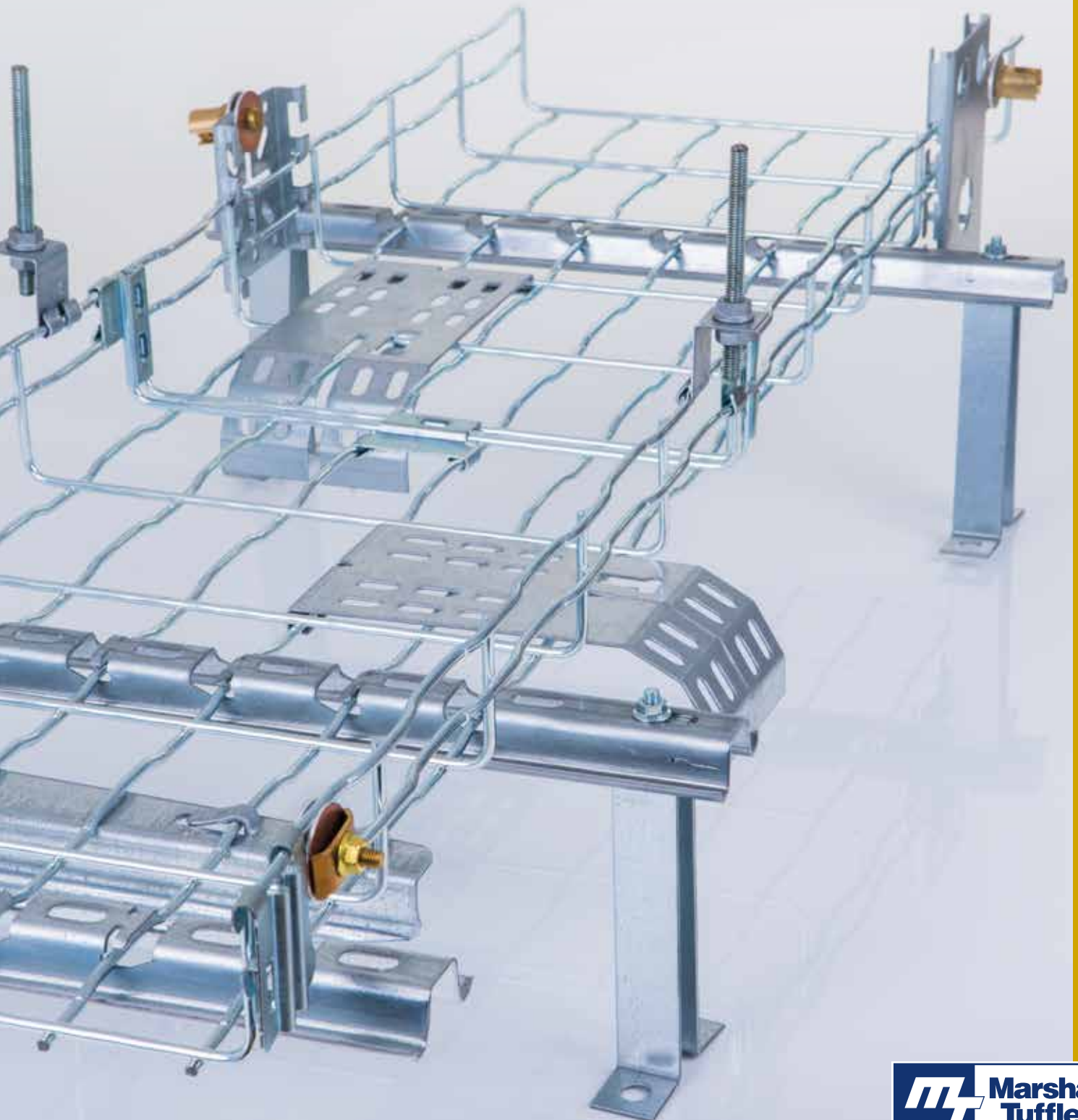
Specifier, Dave Atkinson from States of Jersey, explained why GRP was ideal for this challenging environment: "The humidity level in the tunnels at certain times of the year is very high due to water permeating through the hillside and concrete structure. Because of this moisture, the existing electrical installation had corroded.

"We chose GRP tray for the upgrade as it's resistant to humidity and fire. Apart from putting an end to the corrosion issues, St Aubin's needed a solution that would improve safety for tunnel users while also allowing maintenance teams to reduce testing regimes – something that was taking up a lot of time. Thanks its fire resistant credentials, the use of GRP has meant that periodic testing is now sufficient, in-line with BS 5839," concluded Mr Atkinson.



WIRE BASKET SYSTEMS

A comprehensive range of wire basket solutions for the simple routing of power and data cables.



WIRE BASKET SYSTEMS

WIRE BASKET SYSTEMS



A range of Fast Coupling Wire Basket for the simple routing of power and data cables. Strong and simple to install, Wire Basket offers maximum cable ventilation and a high level of resistance to cable movement.

Connection between sections of wire basket is quick and easy thanks to the integral couplers which results in reduced installation times and labour savings.

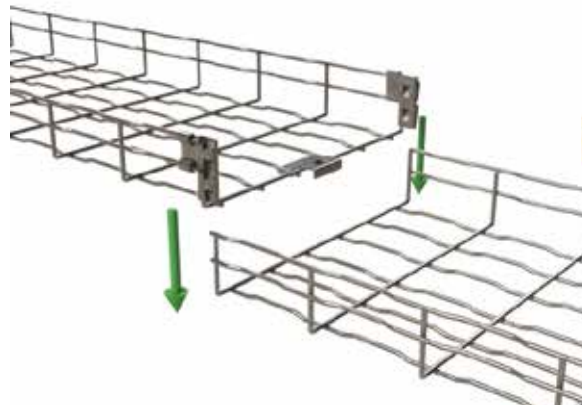
A unique rippled wire design enhances the product strength and resists flexing.



Fast-Coupling

Fast-Coupling Wire Basket is quick and simple to install:

- Two step mounting: fitting and pressure.
- The couplers at the end of the tray are used as guide in the assembly process.
- Once the couplers are connected the system offers excellent earth continuity across the joints.



4
SECONDS

WIRE BASKET



Visit www.marshall-tufflex.com to view our video about Wire Basket installation

Materials and suitable applications

Our standard wire basket is electro-zinc coated and is recommended for interior installations.

We can provide a quotation for hot dip galvanised or stainless steel finishes to suit exterior installations but these are subject to longer lead times. Please contact our Technical Team on +44 (0)1424 856688 for more information.

The below table identifies the finish suitable for the environment.

		EZ Electro-Zinc	HDG Hot-Dip Galvanised Steel	SST Stainless-Steel (316 grade)
Interior	Dry	Recommended	Overspecified	Overspecified
	Humid	Limited Resistance	Recommended	Overspecified
	Chemical industry	Not recommended	Limited Resistance	Overspecified
	Food industry	Not recommended	Not recommended	Overspecified
Exterior	Urban	Limited Resistance	Recommended	Overspecified
	Chemical industry	Not recommended	Limited Resistance	Overspecified
	Food industry	Not recommended	Limited Resistance	Recommended

Approvals

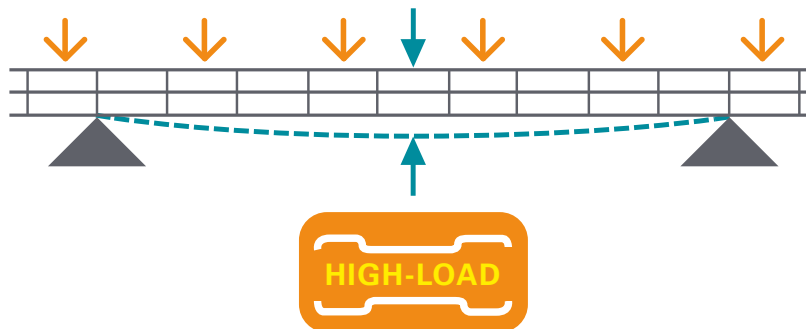


- UL Certification E358301 EN61537 – Cable Management
- IEC 61537:2006 Cable management – Cable tray systems and cable ladder systems.



Rippled design

The unique rippled design of the base of the basket allows for the easy threading of cable ties and increased load capacity with greater resistance to flexing.



Innovative patented design which offers:

- Greater resistance to flexing
- Greater safe working load
- Excellent aesthetic finish



Useful area

Base Width	Standard Basket 35mm Height*		Fast Coupling 65mm Height		Fast Coupling 105mm Height	
	in ²	cm ²	in ²	cm ²	in ²	cm ²
60	–	–	3.57	23	–	–
100	4.18	27	7.29	47	–	–
150	6.51	42	11.63	75	–	–
200	8.99	58	15.81	102	28.83	186
300	13.80	89	24.34	157	45.11	291
400	–	–	32.86	212	61.38	396
500	–	–	41.39	267	77.66	501
600	–	–	49.91	322	93.93	606

*Please note our 35mm wire basket does not have integral couplers

FAST-COUPLING WIRE BASKET

A fast-coupling system allowing sections of wire basket to be simply joined together for super-fast installation using the integral couplers.

- Two heights available; 65mm and 105mm
- Integral couplers for quick and easy connection in just two steps and only 4 seconds!
- The position of the couplers create a guide making a fast and easy assembly process
- No tools required
- Reduced installation time, saving labour costs
- Strong and lightweight
- Unique rippled wire design to enhance product strength and resist flexing
- Maximum cable ventilation and a high level of resistance to cable movement
- Safety edges to prevent cable damage and personal injury
- Optimal solution for installations that do not require big loads
- Simple manipulations to the wire basket can overcome complicated changes in direction
- Electro-Zinc finish
- Corrosion resistance, can be used in harsh environments
- Fire resistant to E90 DIN 4101 section 12



Standard finish
EZ
EZ: Electro-Zinc

Wire Basket is available in Electro-Zinc as standard.

Finish options: HDG (hot-dip galvanised steel) and SST (stainless steel) are available but these are subject to minimum quantity orders and longer lead times.

65mm Height



Fast-Coupling Wire Basket 65mm Height

code	description	dimensions (mm)			pack	
		width	height	length		
MT2/7389	60 x 65mm	60	65	3000	2 x 3m	
MT2/7248	100 x 65mm	100	65	3000	2 x 3m	
MT2/7249	150 x 65mm	150	65	3000	2 x 3m	
MT2/7250	200 x 65mm	200	65	3000	2 x 3m	
MT2/7251	300 x 65mm	300	65	3000	2 x 3m	
MT2/7394	400 x 65mm	400	65	3000	2 x 3m	
MT2/7395	500 x 65mm	500	65	3000	2 x 3m	
MT2/7396	600 x 65mm	600	65	3000	2 x 3m	

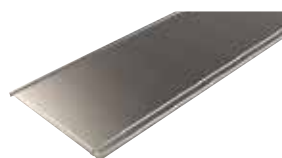
105mm Height



Fast-Coupling Wire Basket 105mm Height

code	description	dimensions (mm)			pack	
		width	height	length		
MT2/7397	200 x 105mm	200	105	3000	2 x 3m	
MT2/7398	300 x 105mm	300	105	3000	2 x 3m	
MT2/7399	400 x 105mm	400	105	3000	2 x 3m	
MT2/7400	500 x 105mm	500	105	3000	2 x 3m	
MT2/7401	600 x 105mm	600	105	3000	2 x 3m	

Covers



- Cover eliminates dirt and dust build-up on cable
- Provides physical protection for cables
- Galvanised steel finish
- To mount the cover no accessories are needed – fixed by pressure

Please note: This cover is for 35mm & 65mm basket only. For 105mm version please contact our Technical Team on +44 (0)1424 856688.

Wire Basket Cover

code	description	dimensions (mm)		weight (kg) per metre	pack
		width	length		
MT2/1312	Cover 100mm	102	3000	0.55	2 x 3m
MT2/1313	Cover 150mm	152	3000	0.76	2 x 3m
MT2/1314	Cover 200mm	202	3000	0.98	2 x 3m
MT2/1316	Cover 300mm	302	3000	1.55	2 x 3m
MT2/1317	Cover 400mm	402	2000	2.19	2 x 2m
MT2/1318	Cover 500mm	502	2000	3.11	2 x 2m
MT2/1319	Cover 600mm	602	2000	3.95	2 x 2m

STANDARD WIRE BASKET

An innovative wire basket solution to accommodate high cable loads.

- High cable capacity
- Maximum cable ventilation and a high level of resistance to cable movement
- Ripple design offers greater resistance to flexing
- Greater safe working load
- Excellent aesthetic finish
- Assemble using our range of Fast Fix Clip on couplers – no bolts required
- 35mm height



Standard finish
EZ
EZ: Electro-Zinc

Wire Basket is available in Electro-Zinc as standard.

Finish options: HDG (hot-dip galvanised steel) and SST (stainless steel) are available but these are subject to minimum quantity orders and longer lead times.

35mm Height



Standard Wire Basket 35mm Height

code	description	dimensions (mm)			pack
		width	height	length	
MT2/3616	100 x 35mm	100	35	3000	2 x 3m
MT2/3617	150 x 35mm	150	35	3000	2 x 3m
MT2/3618	200 x 35mm	200	35	3000	2 x 3m
MT2/3619	300 x 35mm	300	35	3000	2 x 3m

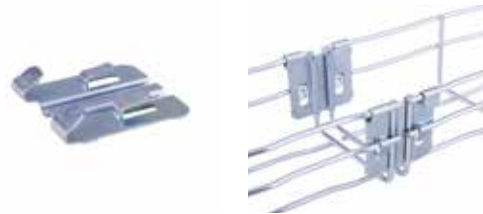
WIRE BASKET

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Technical Information



Fast fix clip on coupler - 35mm

code	pack
MT2/7271	50



Fast fix clip on coupler - 65mm and 105mm

code	pack
MT2/6217	200



Basket connector bolt

code	pack
MT2/4364	10



Basket connector bracket

code	pack
MT2/4919	10



Nut and bolt

code	pack
MT2/4362	10



Ceiling support plate

code	pack
MT2/2064	10

Please note these are sold in singles; two are needed for fittings as per the image. Nut and bolt are not supplied.



Wall bracket support plate

code	pack
MT2/0355	10



Conduit feed plate

code	pack
MT2/0356	8

Aperture: 1 x 21mm, 1 x 25.5mm, 1 x 32.5mm



Universal box plate

code	description	pack
MT2/0358	Large universal box plate	4
MT2/0359	Small universal box plate	8



Side support clip 65mm and 105mm

code	pack
MT2/0360	10



Cable drop out plate
code pack
MT2/6451 1



Bend connector bolt
code pack
MT2/5059 1



Side support clip
code pack
MT2/5724 1

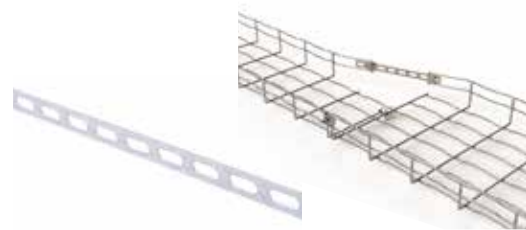
Accepts 10mm mounting stud



Floor bracket
code pack
MT2/5590 1



Lighting attachment plate
code pack
MT2/5906 1



Multi-union joint
code pack
MT2/0357 1



Cutting tool
code pack
MT2/5066 1



Spray paint 98% zinc
code pack
MT2/7224 1



Clip to secure basket to strut
code pack
MT2/10284 10



Variable support bracket
code pack
MT2/6477 10



M8 threaded rod

code	pack
MT2/3397	10 x 1m



M8 nut

code	pack
MT2/0338	10



Earth bonding connector

code	pack
MT2/6797	10



Self fixing dividing fillet

code	description	pack
MT2/3476	35mm	10 x 3m
MT2/2066	60mm	10 x 3m
MT2/3478	100mm	10 x 3m

Attaches to wire basket using self fixing clip



Bracket for 60x65 wire basket

code	pack
MT2/7304	1



Fast fix wall bracket

code	description	pack
MT2/7230	Fast fix wall bracket 100mm	1
MT2/7231	Fast fix wall bracket 150mm	1
MT2/7232	Fast fix wall bracket 200mm	1
MT2/7233	Fast fix wall bracket 300mm	1
MT2/7234	Fast fix wall bracket 400mm	1



Wall bracket supporting piece

code	pack
MT2/6240	1

Ceiling brackets



Fast fix ceiling bracket

code	description	pack
MT2/7235	Fast fix ceiling bracket 100mm	1
MT2/7236	Fast fix ceiling bracket 150mm	1
MT2/7237	Fast fix ceiling bracket 200mm	1
MT2/7238	Fast fix ceiling bracket 300mm	1

Suspension frames



Fast fix suspension frame base (rods sold separately)

code	description	pack
MT2/3630	Fast fix suspension frame 100mm	1
MT2/1073	Fast fix suspension frame 150mm	1
MT2/1074	Fast fix suspension frame 200mm	1
MT2/1076	Fast fix suspension frame 300mm	1
MT2/3629	Fast fix suspension frame 400mm	1
MT2/1077	Fast fix suspension frame 500mm	1
MT2/5941	Fast fix suspension frame 600mm	1



Support strut leg

code	leg height	pack
MT2/5602	142mm	1

Case Study

Wire Basket 'flies in' at new-build Kent school

School projects are under pressure to finish on time and in budget – two major factors that can be aided by Fast-Coupling Wire Basket, an extremely quick installation solution for cable management. Installed by M&S Electrical at the new St George's C of E Primary School in Thanet, Kent, the Fast-Coupling Wire Basket System boasts a connection time of just four seconds.

"I can vouch for the Fast-Coupling Wire Basket System's installation speeds," said Colin Gunn, Contracts Manager for M&S Electrical (UK) Limited. "It was amazing how quickly it fitted together.

Our crew had never used it before but got the hang of it straight away – the stuff flew in! "The system was perfect for this job – the time on-site it saved was significant. Where I can, I will always use it in the future, other solutions on the market just don't compare," concluded Mr Gunn.

With no tools required and featuring an integral push-fit coupling, install times are further cut thanks to the ease with which complicated changes in direction can be overcome simply by manipulating the wire basket during fitting.

Approximately 300 lengths of Fast-Coupling Wire Basket system have been installed at St George's to transport power cables along hall ways and to classrooms.



"The system was perfect for this job – the time on-site it saved was significant."

Colin Gunn, M&S Electrical (UK) Limited

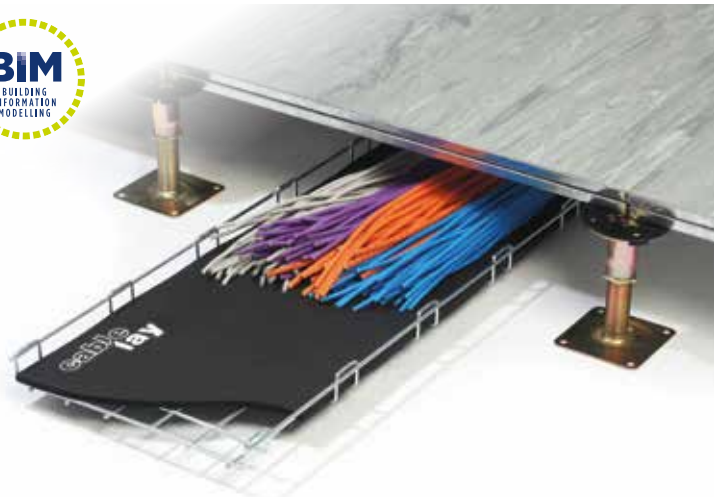


WIRE BASKET CABLELAY



Wire Basket Cablelay is laid within lengths of wire basket or tray to protect cables from protrusions, sharp edges, rough surfaces and kinking ridges thus maintaining the integrity of the data cables which lay on top.

Damaged cabling considerably slows down system performance, causes loss of data and costs hours of additional work time. Our Cablelay products are designed to minimise the risk of damage often caused during installation and protects the cabling for the lifetime of the system.



Cablelay Matting

- A lightweight and flexible 6mm thick mat supplied on rolls for quick and easy installation.
- Class 0 fire standard to meet Building Regulations for England and Wales
- Rolls are joined using Cablelay tape which maintains the Fire Standard and prevents joint movement

Cablelay Rigid

- A 3mm thick compressed foam sheet that is lightweight, strong and flexible and available in a variety of widths to suit your wire basket installation.
- LSOH (low smoke and halogen free)
- Cablelay Rigid conforms to Class 1 (British Standards test 476 part 7)
- Available in a wide range of widths (60mm to 600mm)

Cablelay Matting Meets Building Regulations

Quality assurance and health and safety issues are becoming increasingly more important, Class 0 Cablelay has an excellent fire safety performance complying with Building Regulations by passing both BS476 parts 6 and 7 for fire propagation and surface spread of flames.

Cablelay Matting



Cablelay Matting Class 0

code	width	pack
WBM0660	60mm	1 x 30m
WBM06100	100mm	1 x 30m
WBM06150	150mm	1 x 30m
WBM06200	200mm	1 x 30m
WBM06300	300mm	1 x 30m
WBM06400	400mm	1 x 30m
WBM06500	500mm	1 x 30m
WBM06600	600mm	1 x 30m

Cablelay Rigid



Cablelay Rigid (LSOH)

code	width	pack
WBMR360	60mm	10 x 1.2m
WBMR3100	100mm	10 x 1.2m
WBMR3150	150mm	10 x 1.2m
WBMR3200	200mm	10 x 1.2m
WBMR3300	300mm	10 x 1.2m
WBMR3400	400mm	10 x 1.2m
WBMR3500	500mm	10 x 1.2m
WBMR3600	600mm	10 x 1.2m

Accessories



Cablelay Tape

code	description	pack
WBMOT	Class 0	1 x 15m roll
WBMLT	LSOH	1 x 15m roll

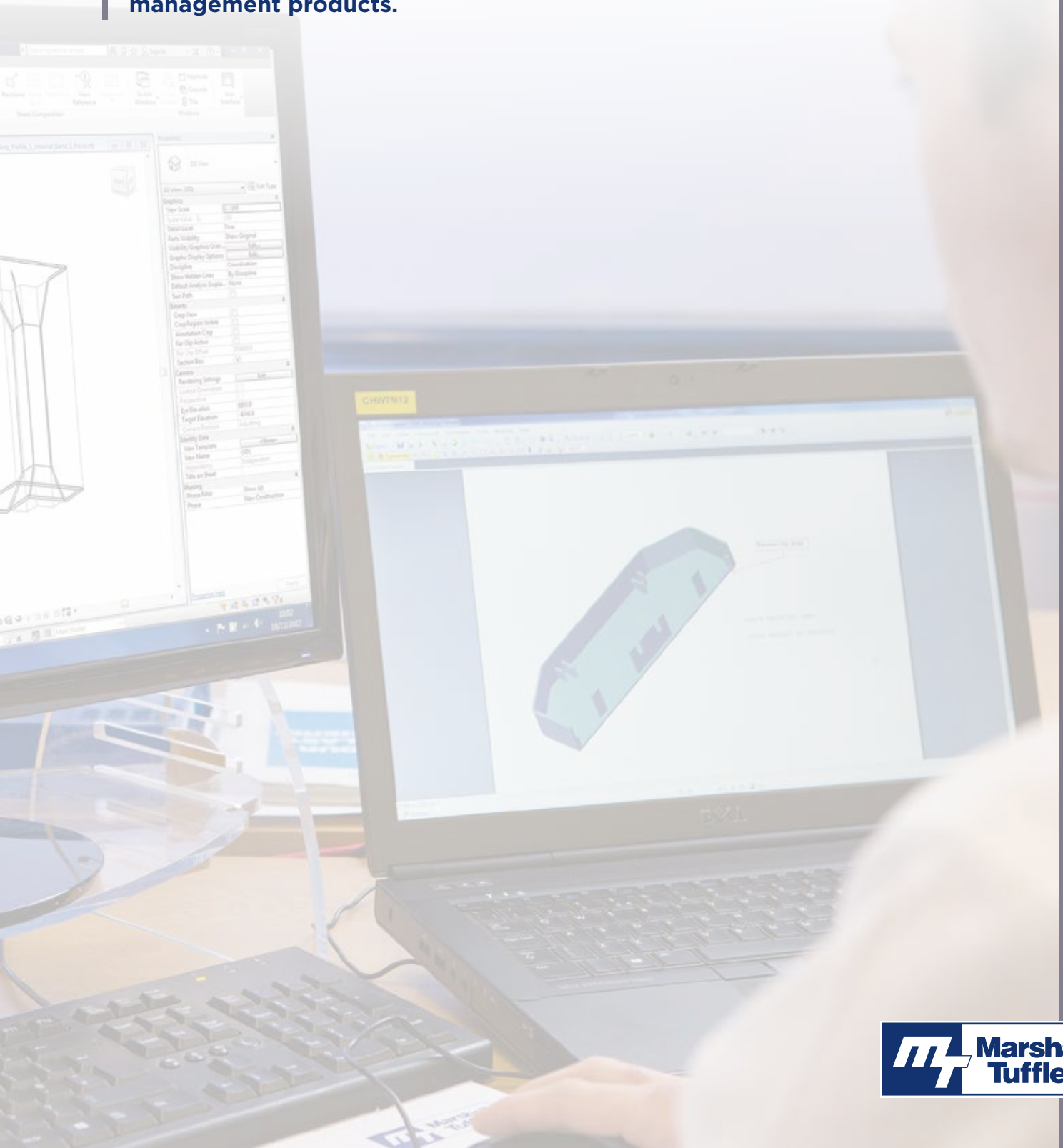


Cutting Tool

code	pack
WBMCT	1

TECHNICAL INFORMATION

This information is intended to provide the specifier or contractor with guidance on all aspects of Marshall-Tufflex cable management products.



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PVC-U material data

Marshall-Tufflex cable management products are manufactured in Extra Super High Impact PVC-U grade material, capable of withstanding the most hazardous conditions on site and which exceeds the most stringent requirements of the British Standards.

Characteristics

Specific gravity		1.42
Co Efficient of Linear Expansion		$7 \times 10^{-5}/m^{\circ}C$
Water Absorption		Negligible
Electric Strength		To the requirements of BS EN 50085 and BS IEC 61084
Fire Performance	BS 476 PT6 & PT7 BS EN 50085 UL94 BS EN 61386-1 BS 4607 BS IEC 61084	PASS PASS V-0 @1.6mm PASS PASS PASS
Oxygen Index		42%
Tensile Strength		492/562 kg/cm ²
Insulation Resistance		To the requirements of BS 4607, BS EN 50085, BS EN 61386-1 BS IEC 61084
Chemical Resistance		See below
Vicat Softening Point (conduit & trunking)		80°C BS EN ISO 306
Vicat Softening Point (moulded fittings)		76°C BS EN ISO 306



Our PVC-U products are manufactured from an average of 80% recycled plastic, with some extruded products produced from 100% recycled material. The index at the back of the catalogue details the recycled content by individual product.

Chemical resistance

The material is virtually unaffected by solutions of inorganic acids, alkalis and salts and is resistant to many organic chemicals. It may be softened by some organic materials such as ketones and aromatic compounds. It will not corrode. See Chemical Resistance table on page 237 for further details.

Fire resistance

The material used in Marshall-Tufflex conduit and trunking are self-extinguishing and comply with the requirements of BS 476 Parts 6 and 7 and BS 4678. Non-flame propagating to BS EN 50085, BS IEC 61084 and BS EN 61386-1.

(See Characteristics table above)

Thermal properties

Marshall-Tufflex conduit and trunking is designed to accommodate variations of ambient temperature equating to 5.25mm/3m for a temperature rise of 25°C.

Operating temperatures: -5°C to +60°C.
Thermal conductivity: 0.19 w/m°C.

Impact resistance

High impact resistance. The material is formulated to comply with the -5°C Heavy Gauge Requirements of BS EN 61386-1.

Standards

Trunking systems are manufactured to comply with the requirements of BS EN 50085-1:2005+A1:2013, BS IEC 61084-1:2017 where applicable. Conduit systems comply with the requirements of BS 4607-5: 1982+A3:2010 and BS EN 61386-1:2008.

PVC-U chemical resistance table

The resistance of unplasticised PVC-U to a wide range of chemicals is listed in the following table.

The symbols used to denote performance are as follows:

✓ Satisfactory

Some attack or absorption: the material may be considered for use when alternative materials are unsatisfactory and where limited life is acceptable. When PVC is to be used with such chemicals, full scale trials under realistic conditions are necessary.

≈ Unsatisfactory: so rated because of decomposition, solution, swelling loss of ductility etc, of the samples tested.

For clarification and for details of resistance to other chemicals please call our Technical Team on +44 (0)1424 856688.

Note: To determine the suitability of PVC-U for external applications we strongly recommend you contact our Technical Team on +44 (0)1424 856688.

Chemical	Concentration	Unplasticised PVC	
		20°C	60°C
acetaldehyde	40% aq. solution	✓	≈
acetic acid	60% aq. solution	✓	✓
acetic anhydride		≈	≈
acetone	Traces	≈	≈
alcohol, ethyl	40% w/w water	✓	#
alcohol, isopropyl		✓	✓
alcohol, menthyl	6% aq. solution	✓	✓
	100%	✓	#
aliphatic hydrocarbons		✓	✓
aluminium chloride		✓	✓
aluminium hydroxide		✓	✓
ammonia	0,88S.G., aq solution	✓	✓
	Anhydrous gas	≈	≈
	Anhydrous liquid	≈	≈
ammonium chloride		✓	✓
ammonium hydroxide		✓	✓
aniline		≈	≈
animal oils		✓	✓
aqua regia	Dilute	✓	✓
	Concentrated	✓	≈
barium sulphate		✓	✓
beer		✓	
benzene		≈	≈
benzoyl chloride		≈	≈
borax		✓	✓
boric acid		✓	✓
brine		✓	✓
bromide	Traces, gas	#	≈
	100% (dry gas)	≈	≈
	Liquid	≈	≈
calcium chloride	Aq. solution	✓	✓
	20% in methyl alcohol	✓	

Chemical	Concentration	Unplasticised PVC	
		20°C	60°C
calcium hydroxide		✓	✓
calcium hypochlorite		✓	✓
carbon dioxide		✓	✓
carbonic acid		✓	✓
carbon monoxide		✓	✓
carbon tetrachloride		#	≈
castor oil		✓	
chloric acid		✓	
chlorine	100% (dry gas)	✓	#
	10% (moist gas)	#	
chlorine water	Sat. solution	#	#
chloroform		≈	≈
chrome alum		✓	✓
chromic acid	Plating solution	✓	✓
cider		✓	
citric acid		✓	✓
copper chloride		✓	✓
copper cyanide		✓	✓
copper nitrate		✓	✓
copper sulphate		✓	✓
cyclohexanone		≈	≈
detergent, synthetic	All concentrations	✓	✓
developers, photographic		✓	✓
dextrin		✓	✓
dextrose		✓	✓
diazo salts		✓	✓
dichlorodifluoromethane		✓	
diethyl ether		≈	≈
emulsifiers	All concentrations	✓	✓
emulsions, photographic		✓	✓
ethyl acetate		≈	≈
ethylene glycol		✓	✓
ethylene oxide		≈	≈
fatty acids		✓	✓
ferric chloride		✓	✓
ferric nitrate		✓	✓
ferric sulphate		✓	✓
ferric ammonium citrate		✓	✓
ferrous chloride		✓	✓
ferrous sulphate		✓	✓
fixing solution, photographic		✓	✓
fluorine		#	#
formaldehyde	40% w/w water	✓	✓
formic acid	50% solution	✓	#
	100% solution	✓	≈
fructose		✓	✓
fruit pulp		✓	✓
glucose		✓	✓
glycerol		✓	✓
grape sugar		✓	✓
heptane		✓	✓
hydrobromic acid	100%	✓	✓
hydrochloric acid	22% aq. solution	✓	✓
	concentrated	✓	✓
hydrochloric acid	40% aq. solution	✓	#
	60% aq. solution	#	≈
	concentrated	≈	≈

Chemical	Concentration	Unplasticised PVC		Chemical	Concentration	Unplasticised PVC	
		20°C	60°C			20°C	60°C
hydrogen bromide	anhydrous	✓	✓	propylene glycol		✓	✓
hydrogen chloride	anhydrous	✓	✓	propylene oxide		≈	≈
hydrogen fluoride	anhydrous	✓	✓	saccharose		✓	✓
hydrogen peroxide	3% (10vol)	✓	✓	sea water		✓	✓
	12% (40 vol)	✓	✓	silver nitrate		✓	✓
	30% (100 vol)	✓	✓	soap solution		✓	✓
	90% and above	✓	✓	sodium bicarbonate		✓	✓
hydrogen sulphide		✓	✓	sodium bisulphite		✓	✓
iodine	solution in potassium iodide	≈	≈	sodium borate		✓	✓
lactic acid	10% aq. solution	✓	✓	sodium bromide		✓	✓
	100%	≈	≈	sodium carbonate		✓	✓
lanoline		✓	✓	sodium chlorate		✓	✓
linoleic acid		✓	✓	sodium chloride		✓	✓
linseed oil		✓	✓	sodium cyanide		✓	✓
magnesium hydroxide		✓	✓	sodium ferricyanide		✓	✓
maleric acid	50% aq. solution	✓		sodium ferrocyanide		✓	✓
	concentrated	✓	#	sodium fluoride		✓	✓
metallic soaps (water soluble)		✓	✓	sodium hydroxide	40% aq. solution	✓	✓
methyl bromide		≈	≈		concentrated	✓	✓
methyl chloride		≈	≈	sodium hypochlorite 15%Cl		✓	✓
methyl cyclohexanone		≈	≈	sodium hyposulphate		✓	✓
methyl ethyl ketone		≈	≈	sodium nitrate		✓	✓
methyl isobutyl ketone		≈	≈	sodium peroxide		✓	✓
methylated spirit		✓	✓	sodium silicate		✓	✓
methylene chloride		≈	≈	sodium sulphate		✓	✓
milk		✓	✓	sodium sulphide	25% aq. solution	✓	✓
mineral oil		✓	✓		concentration	✓	✓
mixed acids	(sulphic/nitric various proportions)	#	≈	sodium sulphite		✓	✓
molasses		✓	✓	soft soap		✓	✓
naptha		✓	✓	surface active agents All concentrations (emulsifiers, synthetic detergents and wetting agents)		✓	✓
napthalene		≈	≈	starch		✓	✓
nicotine		✓	✓	stearic acid		✓	✓
nitric acid	5% aq. solution	✓		sucrose		✓	✓
	50% aq. solution	✓	#	sulphur	Colloidal	✓	✓
nitrobenzene		≈	≈	sulphur dioxide	Dry	✓	✓
oleic acid		✓	✓		Liquid	#	≈
oxalic acid		✓	✓	sulphuric acid	80% aq. solution	✓	✓
oxygen		✓	✓		90% aq. solution	✓	#
ozone		✓	✓		Fuming	≈	≈
paraffin		✓	✓	sulphurous acid	10% aq. solution	✓	✓
pentane		✓		tallow		✓	✓
petrol		✓	✓	tanning extracts		✓	✓
phosphoric acid	30% aq. solution	✓	✓	tartaric acid		✓	✓
	95% aq. solution	✓	✓	transformer oil		✓	✓
photographic developers		✓	✓	trichloroethane		≈	≈
potassium bromide		✓	✓	trichloroethylene		≈	≈
potassium carbonate		✓	✓	turpentine		✓	✓
potassium cyanide		✓	✓	vegetable oils		✓	✓
potassium ferricyanide		✓	✓	vinegar		✓	✓
potassium				water		✓	✓
hydroxide	10% aq. solution	✓	✓	wetting agents	All concentrations	✓	✓
	concentrated	✓	✓	wines and spirits		✓	
potassium hypochlorite		✓	✓	xylene		≈	≈
potassium permanganate		✓	✓	zinc carbonate		✓	✓
propane		✓		zinc chloride		✓	✓
				zinc sulphide		✓	✓

Polycarbonate material data

Chemical resistance

Polycarbonate is resistant to most mineral and organic acids, a number of fats and oils, saturated aliphatic and aromatic hydrocarbons and alcohols, with the exception of methyl alcohol. It is not resistant to alkalis, ammonia gas and its solution or to amines.

Characteristics

Vicat softening point – ISO 306	VST/B 145°C
Flammability to UL94 @ 1.5mm	94V-2
Flammability – oxygen index	35%
Density	1.2g/cm3
Water absorption (in water)	0.35%

ABS high impact FR material data

Fire Retardant (FR) ABS has a good chemical resistance to inorganic salt solutions, alkalis, mineral acids (except strong oxidising acids) and some mineral, vegetable and animal based oils. It is attacked by organic solvents such as alcohols, esters, ketones and ethers.

Characteristics

Vicat softening point	ISO 306	96°C
Density	1.18g/cm³	
Material	UL listed	
Fire performance	BS 4678 BS EN 50085 UL94	PASS PASS V-O @ 1.6mm
Water absorption (in water)	DIN53495/L	0.3%

Aluminium material data

Grade HE9TF: Screen Insert.

Grade 6063T5: Series 2 PowerPole and PowerPost, Bench Trunking Aluminium, Sterling Profile Aluminium, XL Aluminium, Twin Plus Aluminium.

Grade 6060T5: Elegance 170.

Tensile strength: 190N/mm²

Co Efficient of linear expansion: 24 x 10⁻⁶/m°C.

Thermal conductivity: 120w/m°C.

GRP ladder and tray material data

Fire behaviour

Properties	Standard references	Press Moulded Fittings	Pultruded Extrusions	Units
Flammability	ASTM D 6194 / IEC 60695-2-12 Glow-wire flammability index (GWFI) test method for materials.	960	960	°C
Flammability	UL 94 Test for flammability of plastic materials.	V0	V0	–
Fire propagation	NF P 92-501 Fire behaviour of building materials.	Not tested	Not tested	–
Flame spread & smoke developed index	ASTM E84 / UL 723	FSI = 25	FSI = 35	Index
	Surface burning characteristics of building materials. Class following the Uniform Building Code.	SDI = 350 Class I	SDI = 450 Class II	Index –
Flammability & smoke index	NF F 16-101	I2	I2	Index
	Fire behaviour of materials for rolling stock.	F0	F1	Index
Limiting oxygen index	ASTM D 2863 / ISO 4589-2 Plastics - Determination of burning behaviour by oxygen index. Part 2 : Ambient - temperature test.	> 32%	> 32%	%
Flammability & smoke index	VKF Materials and building parts. Part B : Test methods.	5.3	5.3	Index
Fire behaviour	DIN 4102-1 Fire behaviour of building materials and elements. Part 1: Classification of building materials.	B2	B2	–
Fire behaviour	DIN 5510-2 Preventive fire protection in railway vehicles.	S4 / SR2 / ST2	S4 / SR2 / ST2	Index
	Part 2 : Fire behaviour and fire side effects of materials and parts.	FED(30 min.) = 0,09	FED(30 min.) = 0,04	Index
	Appendix C : FED (30 min.) < 1			
Fire behaviour	EN 45545-2 Railway applications - Fire protection on railway vehicles. Part 2 : Requirements for fire behaviour of materials and components. Applicable requirement : R6	None	None	HL
	ISO 5660-1 Parameter MARHE	103,7	101,3	kW/m²
	EN ISO 5659-2 (50 kW/m²) Parameter DS(4)	376,2	331,2	–
	EN ISO 5659-2 (50 kW/m²) Parameter VOF4	454,6	488,5	–
Fire behaviour	EN 45545-2 Appendix C (50kW/m²) Parameter CITG at 4 min.	0,016	0,015	–
	EN 45545-2 Appendix C (50kW/m²) Parameter CITG at 8 min.	0,068	0,064	–

GRP ladder and tray material data – continued

Mechanical behaviour

Properties	Standard references	Press Moulded Fittings	Pultruded Extrusions	Units
Tensile strength at break point	ISO 527-5 Plastics - Determination of tensile properties. Part 5 : Unidirectional fibre-reinforced plastic composites.	~ 55	~ 187	MPa
Tensile modulus	ISO 527-5 Plastics - Determination of tensile properties. Part 5 : Unidirectional fibre-reinforced plastic composites.	~ 7200	~ 11900	MPa
Accelerated ageing test by UV exposure	ISO 4892-2 / ISO 527-5 Methods of exposure to laboratory light sources - Part 2 : Xenon-arc sources.	Good mechanical and chromatic behaviour	Good mechanical and chromatic behaviour	-
Accelerated ageing test by salt spray exposure	ISO 9227 / ISO 527-5 Corrosion tests in artificial atmospheres - Salt spray tests.	Good mechanical and chromatic behaviour	Good mechanical and chromatic behaviour	-
Accelerated ageing test by UV and salt spray exposure	ISO 4892-2 / ISO 9227 / ISO 527-5 UV and salt spray exposure.	Good mechanical and chromatic behaviour	Good mechanical and chromatic behaviour	-

Electrical behaviour

Properties	Standard references	Press Moulded Fittings	Pultruded Extrusions	Units
Measure of surface resistivity & discharge	IEC 60079-0 Explosive atmospheres.	~ 4.10 ⁹	> 10 ¹¹	Ω
	Part 0 : Equipment - General requirements.	IIA, IIB, IIC	IIA, IIB, IIC	-
Dielectric strength	IEC 60243-1 Electric strength of insulating materials. Part 1 : Tests at power frequencies.	~ 6,5	Not tested	kV/mm
Proof tracking index	IEC 60112 Method for the determination of the proof and the comparative tracking indices of solid insulating materials.	575	600	V

Marine approval

Properties	Standard references	Press Moulded Fittings	Pultruded Extrusions	Units
Approval for vessels and drilling platforms	ABS (American Bureau of Shipping)	KK Approved	UL Approved	

Others

Properties	Standard references	Press Moulded Fittings	Pultruded Extrusions	Units
Density		1,8	1,8	g/cm3
Thermal conductivity		0,3	0,3	W/m.K
Coefficient of linear thermal expansion	ISO 11359-2 Plastics - Thermo mechanical analysis (TMA). Part 2 : Determination of coefficient of linear thermal expansion.	~ 36 x 10-6	~ 10 x 10-6	cm/cm/K
Water absorption	ISO 62 Plastics - Determination of water absorption.	0,16	0,3	%
Glass content		> 20%	> 45%	%
Linear shrinkage		0,1	0,1	%
Rockwell hardness		not tested	not tested	HRm
Barcol hardness		> 50	> 50	Barcol
Material temperature range*		-80°C to +130°C	-80°C to +130°C	°C
Continuous operating temperature range		-50°C to +80°C	-50°C to +80°C	°C
Material resistance to high temperatures		good, no flexion	good, no flexion	°C

* Reduced mechanical resistance when ambient temperature is increasing.

GRP Material Chemical Resistance Table

Chemical	Concentration	Performance
Water	-	Good Performance
Acids	10%	Medium Performance
Base	10%	Good Performance
Ethanol	-	Good Performance
Benzine	-	Good Performance
Benzol	-	Medium Performance
Mineral Oil	-	Good Performance
Vegetable and animal fat	-	Good Performance
Chemical products	-	Good Performance

Storage of GRP material

It is best to store GRP products prior to installation at temperatures higher than 0°C and less than 40°C. However the GRP products may be stored at temperatures between -60°C to over 130°C

Information on recycling and environmental impact for the GRP products

Thermoset composite material is made of glass and polyester resin. It can be recycled in waste treatment stations for a further waste processing. This material is inert and has no environmental impact as GRP waste can be re-used in outside applications as raw material for the road building or in cement production.

GRP cable ladders pultruded

Resin types (all zero halogen)

Polyester (standard)	good all round performance, mechanical strength, corrosion resistance, fire behaviour, temperature rating
Acrylic (on request)	excellent resistance to fire in a corrosive environment
Vymilester (on request)	highly resistant to a specific range of chemical agents (H2SO4HCl...)
Carbon loaded polyester (on request)	antistatic properties for highly explosive atmospheres

Power and data segregation

It is important when installing power and data cables in the same installation that the installation complies with the relevant standard. If any conflicts in separation distances arise then the greater separation distance must always apply. To comply with the correct separation distance between power and data cables please refer to BS EN 50174-2:2009+A2:2014 section 6.

There are a number of factors that will affect the separation distance of power and data cables these are listed below:

- Total number of power circuits
- The total load on the power circuit
- The type of data cable being installed
- The installation method of the power and data cables

Every installation is different so it is important to refer to the installation standard for each installation to ensure compliance.

Types of data cable – different categories of cable

Data cables are classified in a number of different categories such as Cat 5e and Cat 6 etc. Generally speaking the higher the category number the higher the performance specification. Data cable is backwards compatible so a Cat 6 installation will always perform to a higher specification than a Cat 5 installation. The basic principle of data cable is very similar across all the different categories and is based on 4 pair twisted cable which is shielded to protect from external EMI and alien or cross talk interference from adjacent cables.

Understanding segregation methods

Incorrect installation		All cables installed in same compartment with no separation.
Correct installation		Cables separated by means of physical barrier in accordance with BS EN 50174-2:2009+A2:2014 section 6
		Cables separated by minimum distance in accordance with BS EN 50174-2:2009+A2:2014 section 6
Key		

Data cable comparison table

Data Cable type	*Cable diameter	Frequency	Speed	Notes
Cat 5e	6mm	Up to 100MHz	Up to 1000MBps	Cat 5e has its limitations and will not be able to support emerging 10GBase-T Ethernet
Cat 6	7.2mm	Up to 250MHz	Up to 10GBps	Cat 6 will run at a much higher performance than Cat 5e supporting more than double the speed and frequency, running to a much tighter specification.
Cat 6a	7.4mm	Up to 500MHz	Up to 10GBps	Cat 6a is designed to support 10GBase-T over a maximum distance of 100 metres.
Cat 7	7.9mm	Up to 600MHz	Up to 10GBps	Cat 7 and Cat 7a data cables are shielded including both the individual cables and the overall cables being screened.
Cat 7a	8.2mm	Up to 1000MHz	Up to 10GBps	

*Please note that cable diameters have been calculated on an average figure from a range of data cable manufacturers.

45% Cable capacity

It is important to follow the Wiring Regulations when installing cables in trunking. By following the Wiring Regulations you minimise the potential of heat rise and cable damage and maintain data throughput when installing new circuits. For further information on trunking cable capacity and grouping factors please refer to the current version of the BS 7671 Wiring Regulations.

Conductor type	Size	Cable factor
Stranded PVC power	1.5mm ²	8.6
Stranded PVC power	2.5mm ²	12.6
Stranded PVC power	4.0mm ²	16.6
*Data cable	Ø5.5mm	23.8
*Data cable	Ø6.0mm	28.3
*Data cable	Ø6.5mm	33.2
*Data cable	Ø7.0mm	38.5
*Data cable	Ø8.4mm	55.4

Please note that made to order fabricated fittings can be manufactured to meet your Cat 7a data cable minimum bend radius. Please contact our technical department on +44 (0)1424 856688 for further information.

Marshall-Tufflex cable management systems are suitable for a variety of data category cables.

The information in the table below is based on average data cable diameters taken from a number of data cable manufacturers.

In all cases it is highly recommended to contact the data cable manufacturer to confirm the specification and minimum bend radius of the data cable prior to installation.

Guidance to determine minimum bend radius

Data Cable	Un-Shielded	Shielded
Cat 5	Up to 10 x cable diameter	-
Cat 5e	Up to 10 x cable diameter	Up to 7 x cable diameter
Cat 6	Up to 8 x cable diameter	Up to 7 x cable diameter
Cat 6a	Up to 8 x cable diameter	Up to 6 x cable diameter
Cat 7	-	Up to 6 x cable diameter
Cat 7a	-	Up to 6 x cable diameter

Installation guidance laying vs pulling

It is important to consider the installation method prior to installing data cables. Incorrect method or poor installation techniques can alter the cable characteristics and degrade the overall specification of the data cable. When pulling cables into trunking systems it is important to note the manufacturer's maximum pulling force as this can reduce the minimum bend radii of the data cable. Laying data cables into a trunking system ensures that minimum bend radius can be achieved and that the data cables installed complies with the required specifications for the installation.

Shielding

The shielding of data cables is important as this stops the signal generated within the data cable radiating and interfering with signals in nearby cables and circuitry. The shielding also protects the signal from surrounding cables and other external influences. The two main types of shielding material are metallic foil and metallic braid. A number of factors should be considered before selecting the type of shielding for an installation.

- The flexibility of the data cable
- The mechanical strength
- The required shield effectiveness
- Ease of stripping and terminating

Once the correct type of shielding has been selected it is important that the shielding is bonded correctly for it to be effective in protecting against signal interference.

Data cable types advantages/disadvantages

Advantages

- Screened cables offer better protection against electromagnetic interference compared to un-screened data cables.
- Screened and unshielded cables work fine at 1Gigabit Ethernet data rates but screened data cables will outperform at data rates such as 10Gigabit due to their ability to support higher frequency transmissions

Disadvantages

- Unshielded data cables require a physical barrier and or separation distance between power cables must be increased.

Data aperture sizes – LJ6C and Euro modules

LJ6C data modules are suitable for use in trunking systems, floor boxes or any systems that has an industry standard LJ6C aperture. The aperture size for the LJ6C module is 22mm x 37mm but may differ slightly between manufacturers. The Euro data modules have a slightly larger aperture at 25mm x 50mm. Coordinating accessory plates can accommodate one or multiple Euro data modules.

PVC-U vs aluminium trunking advantages/disadvantages

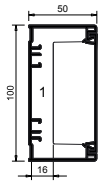
PVC-U trunking systems are low cost, light weight and can be easily fabricated whilst on site, however PVC-U is a non-conductive material so offers no protection against EMI. When using a PVC-U trunking for data installation it is important to segregate and screen the data cables from power and control cables.

This can be easily overcome by either using our range of conductive copper sprayed multi compartment trunking systems or by using the steel screening divider. Steel screening dividing strips can be easily retro fitted to an existing PVC-U trunking installation.

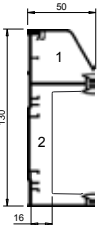
Aluminium trunking systems are lightweight and easy to handle and have high impact and mechanical strength compared to a PVC-U trunking installation. Aluminium trunking systems offer great protection against EMI especially at higher frequencies. Both material options aid and support compliant installations.

PVC-U perimeter trunking capacity guide

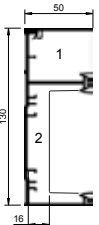
Trunking height up to 150mm



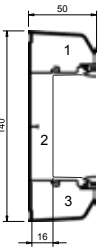
MONO 10 – no box
 1 = 4141mm² total area
 1 = 1863mm² 45% space factor
With box in comp 1
 1 = 1874mm² total area
 1 = 843mm² 45% space factor
Internal dimensions
 Compartment 1 = 96 x 46mm



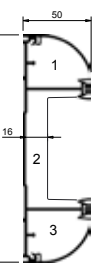
COMPACT 1 – no box
 1 = 1280mm² total area
 1 = 576mm² 45% space factor
 2 = 3763mm² total area
 2 = 1693mm² 45% space factor
With box in comp 2
 2 = 1497mm² total area
 2 = 673mm² 45% space factor
Internal dimensions
 Compartment 1 = 36 x 45mm
 Compartment 2 = 87 x 46mm



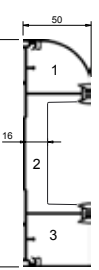
COMPACT 2 no box
 1 = 1534mm² total area
 1 = 690mm² 45% space factor
 2 = 3763mm² total area
 2 = 1693mm² 45% space factor
With box in comp 2
 2 = 1497mm² total area
 2 = 673mm² 45% space factor
Internal dimensions
 Compartment 1 = 36 x 45mm
 Compartment 2 = 87 x 46mm



MONO PLUS 20 – no box
 1 & 3 = 1024mm² total area
 1 & 3 = 461mm² 45% space factor
 2 = 3451mm² total area
 2 = 1553mm² 45% space factor
With box in comp 2
 2 = 1185mm² total area
 2 = 533mm² 45% total area
Internal dimensions
 Compartment 1 = 27 x 45mm
 Compartment 2 = 77 x 46mm
 Compartment 3 = 27 x 45mm

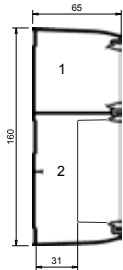


STERLING CURVE PROFILE 1 – no box
 1 & 3 = 1170mm² total area
 1 & 3 = 527mm² 45% space factor
 2 = 3858mm² total area
 2 = 1736mm² 45% space factor
With box in comp 2
 2 = 1376mm² total area
 2 = 619mm² 45% total area
Internal dimensions
 Compartment 1 = 39 x 45mm
 Compartment 2 = 86 x 46mm
 Compartment 3 = 39 x 45mm

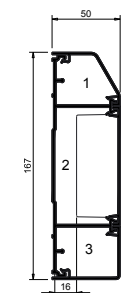


STERLING CURVE PROFILE 2 – no box
 1 = 1170mm² total area
 1 = 527mm² 45% space factor
 2 = 3858mm² total area
 2 = 1736mm² 45% space factor
 3 = 1542mm² total area
 3 = 694mm² 45% space factor
With box in comp 2
 2 = 1376mm² total area
 2 = 619mm² 45% space factor
Internal dimensions
 Compartment 1 = 39 x 45mm
 Compartment 2 = 86 x 46mm
 Compartment 3 = 39 x 45mm

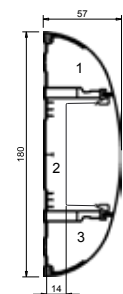
Trunking height from 150mm to 200mm



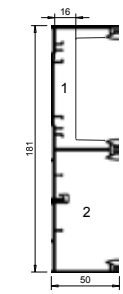
TWIN165 – no box
 1 = 3272mm² total area
 1 = 1472mm² 45% space factor
 2 = 5404mm² total area
 2 = 2431mm² 45% space factor
With box in comp 2
 2 = 3100mm² total area
 2 = 1395mm² 45% space factor
Internal dimensions
 Compartment 1 = 58 x 61mm
 Compartment 2 = 94 x 61mm



STERLING PROFILE 2 – no box
 1 = 1266mm² total area
 1 = 570mm² 45% space factor
 2 = 3858mm² total area
 2 = 1736mm² 45% space factor
 3 = 1542mm² total area
 3 = 694mm² 45% space factor
With box in comp 2
 2 = 1376mm² total area
 2 = 619mm² 45% space factor
Internal dimensions
 Compartment 1 = 39 x 45mm
 Compartment 2 = 86 x 46mm
 Compartment 3 = 39 x 45mm

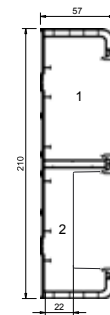


ODYSSEY – no box
 1 & 3 = 1256mm² total area
 1 & 3 = 565mm² 45% space factor
 2 = 4022mm² 45% total area
 2 = 1810mm² 45% space factor
With box in comp 2
 2 = 1230mm² total area
 2 = 554mm² 45% space factor
Internal dimensions
 Compartment 1 = 36 x 46mm
 Compartment 2 = 81 x 48mm
 Compartment 3 = 36 x 46mm

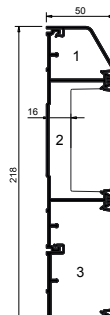


COMPACT 3 – no box
 1 = 3763mm² total area
 1 = 1693mm² 45% space factor
 2 = 3700mm² total area
 2 = 1665mm² 45% space factor
With box in comps 1 and 2
 1 = 1503mm² total area
 1 = 676mm² 45% space factor
 2 = 1440mm² total area
 2 = 648mm² 45% space factor
Internal dimensions
 Compartment 1 = 87 x 45mm
 Compartment 2 = 87 x 46mm

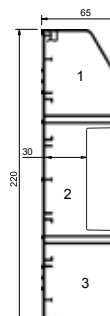
Trunking height over 200mm



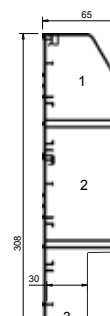
TWIN PLUS – no box
 1 & 2 = 4755mm² total area
 1 & 2 = 2140mm² 45% space factor
With box in comps 1 or 2
 1 & 2 = 2431mm² total area
 1 & 2 = 1094mm² 45% space factor
Internal dimensions
 Compartment 1 = 95 x 52mm
 Compartment 2 = 95 x 52mm



STERLING PROFILE 4 – no box
 1 = 1266mm² total area
 1 = 570mm² 45% space factor
 2 = 3858mm² total area
 2 = 1736mm² 45% space factor
 3 = 3858mm² total area
 3 = 1736mm² 45% space factor
With box in comp 2 or 3
 2 = 1376mm² total area
 2 = 619mm² 45% space factor
 3 = 1234mm² total area
 3 = 555mm² 45% space factor
Internal dimensions
 Compartment 1 = 39 x 45mm
 Compartment 2 = 86 x 46mm
 Compartment 3 = 86 x 46mm



XL202 – no box
 1 = 2824mm² total area
 1 = 1271mm² 45% space factor
 2 = 4771mm² total area
 2 = 2147mm² 45% space factor
 3 = 3531mm² total area
 3 = 1589mm² 45% space factor
With box in comp 2
 2 = 2504mm² total area
 2 = 1127mm² 45% space factor
Internal dimensions
 Compartment 1 = 64 x 62mm
 Compartment 2 = 84 x 62mm
 Compartment 3 = 64 x 62mm



XL212 – no box
 1 = 2824mm² total area
 1 = 1271mm² 45% space factor
 2 = 4771mm² total area
 2 = 2147mm² 45% space factor
 3 = 4732mm² total area
 3 = 2130mm² 45% space factor
 4 = 3531mm² total area
 4 = 1589mm² 45% space factor
With box in comps 2 or 3
 2 = 2511mm² total area
 2 = 1130mm² 45% space factor
 3 = 2466mm² total area
 3 = 1109mm² 45% space factor
Internal dimensions
 Compartment 1 = 61 x 61mm
 Compartment 2 = 87 x 61mm
 Compartment 3 = 87 x 61mm
 Compartment 4 = 61 x 61mm

Conductor type	Size	Cable factor
Stranded PVC power	1.5mm ²	8.6
Stranded PVC power	2.5mm ²	12.6
Stranded PVC power	4.0mm ²	16.6

For Data cable information, please see page 242

Other Sterling Profile dimensions

Other Sterling Profiles are a combination of the ones shown on this page and can be calculated using the compartment dimensions shown here.

Mono 10 and Mono Plus 20 trunking – PVC-U

Material

PVC-U is flame retardant and self-extinguishing. It is a 100% recyclable material.

Our PVC-U products are manufactured from an average of 80% recycled plastic, with some extruded products produced from 100% recycled material. The index at the back of the catalogue details the recycled content by individual product.

Positioning

- Mono 10
For dado application only.
- Mono Plus 20
If used for skirting applications, a clearance of 10mm is recommended above the floor covering to maintain IP4X rating.

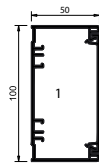
Screening

Please contact our Technical Team on +44 (0)1424 856688.

Antimicrobial

For technical details of antimicrobial Mono Plus 20 Bio trunking, please refer to Laboratory and Healthcare section on page 293.

Dimensions

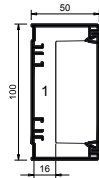


Mono 10 trunking – no box

Compartment 1 total area = 4141mm²

Internal dimensions

Compartment 1 = 96 x 46mm

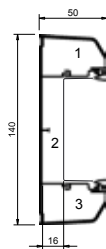


Mono 10 trunking – with box

Compartment 1 total area = 1874mm²

Internal dimensions

Compartment 1 = 96 x 46mm



Mono Plus 20 trunking – with box

Compartment 1 total area = 1024mm²

Compartment 2 total area = 1185mm²

Compartment 3 total area = 1024mm²

Internal dimensions

Compartment 1 = 27 x 45mm

Compartment 2 = 77 x 46mm

Compartment 3 = 27 x 45mm

Cable capacities

- All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Cable capacity chart	Compartment 1		Compartment 2		Compartment 3	
	No box	With box	No box	With box	No box	With box
PVC power cable 1.5mm² stranded copper						
Mono 10	216	98	–	–	–	–
Mono Plus 20	53	–	180	62	53	–
PVC power cable 2.5mm² stranded copper						
Mono 10	147	66	–	–	–	–
Mono Plus 20	36	–	123	42	36	–
PVC power cable 4.0mm² stranded copper						
Mono 10	112	50	–	–	–	–
Mono Plus 20	27	–	93	32	27	–
Data cable: Ø5.5mm						
Mono 10	78	35	–	–	–	–
Mono Plus 20	19	–	65	22	19	–
Data cable: Ø6.0mm						
Mono 10	65	29	–	–	–	–
Mono Plus 20	16	–	54	18	16	–
Data cable: Ø6.5mm						
Mono 10	56	25	–	–	–	–
Mono Plus 20	13	–	46	16	13	–
Data cable: Ø7.0mm						
Mono 10	48	21	–	–	–	–
Mono Plus 20	11	–	40	13	11	–
Data cable: Ø8.4mm						
Mono 10	33	15	–	–	–	–
Mono Plus 20	8	–	28	9	8	–



Compact trunking

Material

PVC-U is flame retardant and self-extinguishing. Our PVC-U products are manufactured from an average of 80% recycled plastic, with some extruded products produced from 100% recycled material. The index at the back of the catalogue details the recycled content by individual product.

Positioning

Compact 1, 2 and 3 are suitable for dado and skirting. If used for skirting applications, a clearance of 10mm is recommended above the floor covering to maintain IP4X rating.

If Compact 2 is installed close to desk/bench top – invert so small compartment is on bottom.

Screening

Special conductive spray coating can be applied to one compartment, the cover, accessory boxes and fittings, to screen data cables against EMI interference.

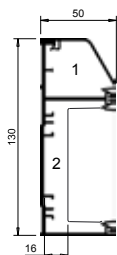
- **For data/voice circuits only:**

Warning: Owing to its relatively high surface resistance, CS coating SHOULD NOT be in contact with low voltage circuits as per the current version of BS 7671 wiring regulations. V.A.C. – 1000 V.A.C. unless additional measures are undertaken.

Antimicrobial

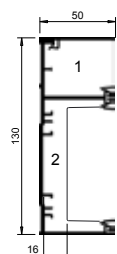
For technical details of antimicrobial Bio Compact trunking, please refer to Laboratory and Healthcare section on page 293.

Dimensions



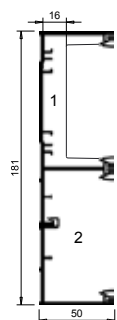
Compact 1 trunking – with box

Compartment 1 total area = 1280mm²
Compartment 2 total area = 1497mm²



Compact 2 trunking – no box

Compartment 1 total area = 1534mm²
Compartment 2 total area = 3763mm²



Compact 3 trunking – no box

Compartment 1 total area = 3763mm²
Compartment 2 total area = 3700mm²

Cable capacities

- All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Cable capacity chart	Compartment 1		Compartment 2	
	No box	With box	No box	With box

PVC power cable 1.5mm² stranded copper

Compact 1	66	–	196	78
Compact 2	80	–	196	78
Compact 3	196	78	193	75

PVC power cable 2.5mm² stranded copper

Compact 1	45	–	134	53
Compact 2	53	–	134	53
Compact 3	134	53	132	75

PVC power cable 4.0mm² stranded copper

Compact 1	34	–	102	40
Compact 2	41	–	102	40
Compact 3	101	40	100	39

Data cable: Ø5.5mm

Compact 1	24	–	71	28
Compact 2	29	–	71	28
Compact 3	71	28	69	27

Data cable: Ø6.0mm

Compact 1	20	–	59	20
Compact 2	24	–	59	20
Compact 3	59	22	58	22

Data cable: Ø6.5mm

Compact 1	17	–	50	20
Compact 2	20	–	50	20
Compact 3	50	17	50	20

Data cable: Ø7.0mm

Compact 1	14	–	43	–
Compact 2	17	–	43	–
Compact 3	43	17	43	16

Data cable: Ø8.4mm

Compact 1	10	–	30	12
Compact 2	12	–	30	12
Compact 3	30	12	30	11

Twin165 trunking

Material

PVC-U is flame retardant and self-extinguishing. It is a 100% recyclable material.

Our PVC-U products are manufactured from an average of 80% recycled plastic, with some extruded products produced from 100% recycled material. The index at the back of the catalogue details the recycled content by individual product.

Positioning

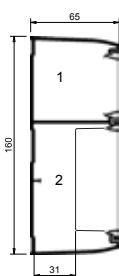
If used for skirting applications, a clearance of 10mm is recommended above the floor covering to maintain IP4X rating.

Screening

Special conductive spray coating can be applied to one compartment, the cover, accessory boxes and fittings, to screen data cables against EMI interference.

- **For data/voice circuits only:**
Warning: Owing to its relatively high surface resistance, CS coating SHOULD NOT be in contact with low voltage circuits as per the current version of BS 7671 wiring regulations. 50 V.A.C. – 1000 V.A.C. unless additional measures are undertaken.
- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.

Dimensions



Twin165 trunking – no accessory box

Compartment 1 = 3272mm² total area
 Compartment 1 = 1472mm² 45% space factor
 Compartment 2 = 5404mm² total area
 Compartment 2 = 2431mm² 45% space factor

Twin165 trunking – with accessory box

Compartment 1 = 3272mm² total area
 Compartment 1 = 1472mm² 45% space factor
 Compartment 2 = 3100mm² total area
 Compartment 2 = 1395mm² 45% space factor

Cable capacities

- All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Cable capacity chart	Compartment 1		Compartment 2	
	No box	With box	No box	With box
PVC power cable 1.5mm ² stranded copper	171	–	282	162
PVC power cable 2.5mm ² stranded copper	116	–	193	110
PVC power cable 4.0mm ² stranded copper	88	–	146	84
Data cable: Ø5.5mm	61	–	102	58
Data cable: Ø6.0mm	52	–	86	49
Data cable: Ø6.5mm	44	–	73	42
Data cable: Ø7.0mm	38	–	63	36
Data cable: Ø8.4mm	26	–	43	25



Sterling Profile trunking

Material

PVC-U is flame retardant and self-extinguishing. It is a 100% recyclable material.

Our PVC-U products are manufactured from an average of 80% recycled plastic, with some extruded products produced from 100% recycled material. The index at the back of the catalogue details the recycled content by individual product.

Positioning

If used for skirting applications, a clearance of 10mm is recommended above the floor covering to maintain IP4X rating.

Screening

Special conductive spray coating can be applied to one compartment, the cover, accessory boxes and fittings, to screen data cables against EMI interference.

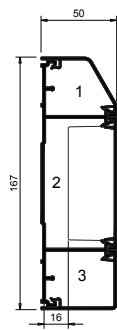
- **For data/voice circuits only:**

Warning: Owing to its relatively high surface resistance, CS coating SHOULD NOT be in contact with low voltage circuits as per the current version of BS 7671 wiring regulations. 50 V.A.C. – 1000 V.A.C. unless additional measures are undertaken.

Antimicrobial

For technical details of antimicrobial Sterling Profile Bio trunking, please refer to Laboratory and Healthcare section on page 293.

Dimensions



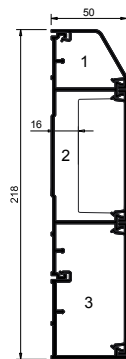
Sterling Profile 2 no box

- 1 = 1266mm² total area
- 1 = 570mm² 45% space factor
- 2 = 3858mm² total area
- 2 = 1736mm² 45% space factor
- 3 = 1542mm² total area
- 3 = 694mm² 45% space factor

With box in comp 2

- 2 = 1376mm² total area
- 2 = 619mm² 45% space factor

Note: The dimensions shown in this drawing can be used to work out dimensions for Sterling Profiles 1 and 3.

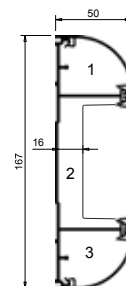


Sterling Profile 4 no box

- 1 = 1266mm² total area
- 1 = 570mm² 45% space factor
- 2 = 3858mm² total area
- 2 = 1736mm² 45% space factor
- 3 = 3716mm² total area
- 3 = 1672mm² 45% space factor

With box in comp 2 or 3

- 2 = 1376mm² total area
- 2 = 619mm² 45% space factor
- 3 = 1234mm² total area
- 3 = 555mm² 45% space factor

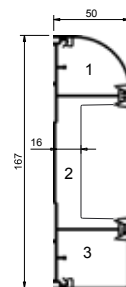


Sterling Curve Profile 1 – no box

- 1 & 3 = 1170mm² total area
- 1 & 3 = 527mm² 45% space factor
- 2 = 3858mm² total area
- 2 = 1736mm² 45% space factor

With box in comp 2

- 2 = 1376mm² total area
- 2 = 619mm² 45% total area



Sterling Curve Profile 2 – no box

- 1 = 1170mm² total area
- 1 = 527mm² 45% space factor
- 2 = 3858mm² total area
- 2 = 1736mm² 45% space factor
- 3 = 1542mm² total area
- 3 = 694mm² 45% space factor

With box in comp 2

- 2 = 1376mm² total area
- 2 = 619mm² 45% space factor

Sterling Profile

Cable capacities

- All calculations allow for a 45% space factor.

As there can be differences between cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Cable capacity chart	Compartment 1		Compartment 2		Compartment 3	
	No box	With box	No box	With box	No box	With box
PVC power cable 1.5mm² stranded copper						
Sterling Profile 1	66	-	201	71	66	-
Sterling Profile 2	66	-	201	71	80	-
Sterling Profile 3	80	-	201	71	80	-
Sterling Profile 4	66	-	201	71	194	69
Sterling Curve Profile 1	61	-	201	71	61	-
Sterling Curve Profile 2	61	-	201	71	80	-
PVC power cable 2.5mm² stranded copper						
Sterling Profile 1	45	-	137	49	45	-
Sterling Profile 2	45	-	137	49	55	-
Sterling Profile 3	55	-	137	49	55	-
Sterling Profile 4	45	-	137	49	132	47
Sterling Curve Profile 1	41	-	137	49	41	-
Sterling Curve Profile 2	41	-	137	49	55	-
PVC power cable 4.0mm² stranded copper						
Sterling Profile 1	34	-	104	37	34	-
Sterling Profile 2	34	-	104	37	41	-
Sterling Profile 3	41	-	104	37	41	-
Sterling Profile 4	34	-	104	37	100	33
Sterling Curve Profile 1	31	-	104	37	31	-
Sterling Curve Profile 2	31	-	104	37	41	-
Data cable: Ø5.5mm²						
Sterling Profile 1	23	-	73	26	23	-
Sterling Profile 2	23	-	73	26	29	-
Sterling Profile 3	29	-	73	26	29	-
Sterling Profile 4	23	-	73	26	70	23
Sterling Curve Profile 1	22	-	73	26	23	-
Sterling Curve Profile 2	22	-	73	26	29	-
Data cable: Ø6.0mm²						
Sterling Profile 1	20	-	61	21	20	-
Sterling Profile 2	20	-	61	21	24	-
Sterling Profile 3	24	-	61	21	24	-
Sterling Profile 4	20	-	61	21	59	20
Sterling Curve Profile 1	18	-	61	21	18	-
Sterling Curve Profile 2	18	-	61	21	24	-
Data cable: Ø6.5mm²						
Sterling Profile 1	17	-	52	18	17	-
Sterling Profile 2	17	-	52	18	20	-
Sterling Profile 3	20	-	52	18	20	-
Sterling Profile 4	17	-	52	18	50	17
Sterling Curve Profile 1	15	-	52	18	15	-
Sterling Curve Profile 2	15	-	52	18	20	-
Data cable: Ø7.0mm²						
Sterling Profile 1	14	-	45	16	14	-
Sterling Profile 2	14	-	45	16	18	-
Sterling Profile 3	18	-	45	16	18	-
Sterling Profile 4	14	-	45	16	43	14
Sterling Curve Profile 1	13	-	45	16	13	-
Sterling Curve Profile 2	13	-	45	16	18	-
Data cable: Ø8.4mm²						
Sterling Profile 1	10	-	31	11	10	-
Sterling Profile 2	10	-	31	11	12	-
Sterling Profile 3	12	-	31	11	12	-
Sterling Profile 4	10	-	31	11	30	10
Sterling Curve Profile 1	9	-	31	11	9	-
Sterling Curve Profile 2	9	-	31	11	12	-

Odyssey trunking

Material

Odyssey accessory boxes and fittings are flame retardant ABS which is 100% recyclable.

Our PVC-U products are manufactured from an average of 80% recycled plastic, with some extruded products produced from 100% recycled material. The index at the back of the catalogue details the recycled content by individual product.

Positioning

For dado, horizontal or vertical installation.

Screening

Special conductive spray coating can be applied to one compartment, the cover, accessory boxes and fittings, to screen data cables against EMI interference.

Please contact our Technical Team on +44 (0)1424 856688.

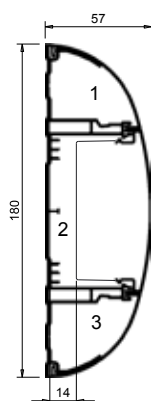
- **For data/voice circuits only:**

Warning: Owing to its relatively high surface resistance, CS coating SHOULD NOT be in contact with low voltage circuits as per the current version of BS 7671 wiring regulations. 50 V.A.C. – 1000 V.A.C. unless additional measures are undertaken.

Antimicrobial

For technical details of antimicrobial Odyssey Bio trunking, please refer to Laboratory and Healthcare section on page 293.

Dimensions



Odyssey trunking – with box

Compartment 1 & 3 total area = 1278mm²

Compartment 2 total area = 859mm²

Odyssey trunking – no box

Compartment 2 total area = 3972mm²

Cable capacities

- All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Cable capacity chart	Compartment 1		Compartment 2		Compartment 3	
	No box	With box	No box	With box	No box	With box
PVC power cable 1.5mm ² stranded copper	65	–	210	64	65	–
PVC power cable 2.5mm ² stranded copper	44	–	143	43	44	–
PVC power cable 4.0mm ² stranded copper	34	–	109	33	34	–
Data cable: Ø5.5mm	23	–	76	23	23	–
Data cable: Ø6.0mm	19	–	63	19	19	–
Data cable: Ø6.5mm	17	–	54	16	17	–
Data cable: Ø7.0mm	14	–	47	14	14	–
Data cable: Ø8.4mm	10	–	32	10	10	–

Twin Plus trunking

Material

PVC-U is flame retardant and self-extinguishing. It is a 100% recyclable material.

Our PVC-U products are manufactured from an average of 80% recycled plastic, with some extruded products produced from 100% recycled material. The index at the back of the catalogue details the recycled content by individual product.

Positioning

If used for skirting applications, a clearance of 10mm is recommended above the floor covering to maintain IP4X rating.

Screening

Special conductive spray coating can be applied to one compartment, the cover, accessory boxes and fittings, to screen data cables against EMI interference.

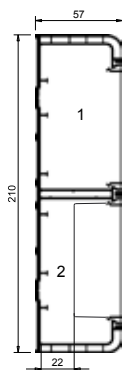
- **For data/voice circuits only:**

Warning: Owing to its relatively high surface resistance, CS coating SHOULD NOT be in contact with low voltage circuits as per the current version of BS 7671 wiring regulations. 50 V.A.C. – 1000 V.A.C. unless additional measures are undertaken.

Antimicrobial

For technical details of antimicrobial Twin Plus Bio trunking, please refer to Laboratory and Healthcare section on page 293.

Dimensions



Twin Plus trunking – with accessory box

- 1 = 2431mm² total area
- 1 = 1094mm² 45% space factor
- 2 = 2431mm² total area
- 2 = 1094mm² 45% space factor

Twin Plus trunking – no accessory box

- 1 = 4755mm² total area
- 1 = 2139mm² 45% space factor
- 2 = 4755mm² total area
- 2 = 2139mm² 45% space factor

Cable capacities

- All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Cable capacity chart	Compartment 1		Compartment 2	
	No box	With box	No box	With box
PVC power cable 1.5mm ² stranded copper	248	127	248	127
PVC power cable 2.5mm ² stranded copper	169	86	169	86
PVC power cable 4.0mm ² stranded copper	128	65	128	65
Data cable: Ø5.5mm	89	46	89	46
Data cable: Ø6.0mm	75	38	75	38
Data cable: Ø6.5mm	64	32	64	32
Data cable: Ø7.0mm	55	28	55	28
Data cable: Ø8.4mm	38	19	38	19

XL trunking

Material

PVC-U is flame retardant and self-extinguishing. It is a 100% recyclable material.

Our PVC-U products are manufactured from an average of 80% recycled plastic, with some extruded products produced from 100% recycled material. The index at the back of the catalogue details the recycled content by individual product.

Positioning

If used for skirting applications, a clearance of 10mm is recommended above the floor covering to maintain IP4X rating.

Screening

Special conductive spray coating can be applied to one compartment, the cover, accessory boxes and fittings, to screen data cables against EMI interference.

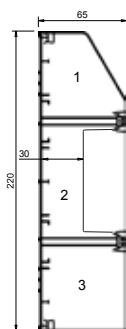
- **For data/voice circuits only:**

Warning: Owing to its relatively high surface resistance, CS coating SHOULD NOT be in contact with low voltage circuits As per the current version of BS 7671 wiring regulations. 50 V.A.C. – 1000 V.A.C. unless additional measures are undertaken.

Antimicrobial

For technical details of antimicrobial XL Bio trunking, please refer to Laboratory and Healthcare section on page 293.

Dimensions



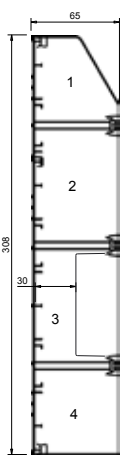
XL202 Trunking - with box

- 1 = 2824mm² total area
- 1 = 1270mm² 45% space factor
- 2 = 2504mm² total area
- 2 = 1126mm² 45% space factor
- 3 = 3531mm² total area
- 3 = 1589mm² 45% space factor

XL202 Trunking - no box

- 2 = 4771mm² total area
- 2 = 2147mm² 45% space factor

Note: The dimensions shown in this drawing can be used to work out dimensions for XL201.



XL212 Trunking - no box

- 1 = 2824mm² total area
- 1 = 1270mm² 45% space factor
- 2 = 4771mm² total area
- 2 = 2147mm² 45% space factor
- 3 = 4732mm² total area
- 3 = 2129mm² 45% space factor
- 4 = 3531mm² total area
- 4 = 1589mm² 45% space factor

XL212 Trunking - with box in comp 2 or 3

- 2 = 2511mm² total area
- 2 = 1130mm² 45% space factor
- 3 = 2466mm² total area
- 3 = 1109mm² 45% space factor

Note: The dimensions shown in this drawing can be used to work out dimensions for XL211.

XL trunking – continued

Cable capacities

- All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Cable capacity chart	Compartment 1		Compartment 2		Compartment 3		Compartment 4
	No box	With box	No box	With box	No box	With box	No box
PVC power cable 1.5mm² stranded copper							
XL201	147	-	249	131	147	-	-
XL202	147	-	249	131	184	-	-
XL211	147	-	249	131	247	124	147
XL212	147	-	249	131	247	124	184
PVC power cable 2.5mm² stranded copper							
XL201	100	-	170	89	100	-	-
XL202	100	-	170	89	126	-	-
XL211	100	-	170	89	168	88	100
XL212	100	-	170	89	168	88	126
PVC power cable 4.0mm² stranded copper							
XL201	76	-	129	67	76	-	-
XL202	76	-	129	67	95	-	-
XL211	76	-	129	65	128	66	76
XL212	76	-	129	65	128	66	95
Data cable: Ø5.5mm UTP & STP							
XL201	53	-	90	47	53	-	-
XL202	53	-	90	47	66	-	-
XL211	53	-	90	45	89	46	53
XL212	53	-	90	45	89	46	66
Data cable: Ø6.0mm UTP & STP							
XL201	44	-	75	39	44	-	-
XL202	44	-	75	39	56	-	-
XL211	44	-	75	38	75	37	44
XL212	44	-	75	38	75	37	56
Data cable: Ø6.5mm UTP & STP							
XL201	38	-	64	33	38	-	-
XL202	38	-	64	33	47	-	-
XL211	38	-	64	32	64	33	38
XL212	38	-	64	32	64	33	47
Data cable: Ø7.0mm UTP & STP							
XL201	33	-	55	29	33	-	-
XL202	33	-	55	29	41	-	-
XL211	33	-	55	28	55	28	33
XL212	33	-	55	28	55	28	41
Data cable: Ø8.4mm UTP & STP							
XL201	22	-	38	20	22	-	-
XL202	22	-	38	20	28	-	-
XL211	22	-	38	19	38	20	22
XL212	22	-	38	19	38	20	28

Mini trunking

Material

PVC-U is flame retardant and self-extinguishing. It is a 100% recyclable material.

Our PVC-U products are manufactured from an average of 80% recycled plastic, with some extruded products produced from 100% recycled material. The index at the back of the catalogue details the recycled content by individual product.

Positioning

As feeder trunking.

Cable capacities

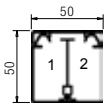
- All calculations allow for a 45% space factor.
- Divide cable factor (1st table) into capacity (2nd table) to ascertain number of cables.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Conductor type	Size	Cable factor
Stranded PVC power	1.5mm ²	8.6
Stranded PVC power	2.5mm ²	12.6
Stranded PVC power	4.0mm ²	16.6
*Data cable	Ø5.5mm	23.8
*Data cable	Ø6.0mm	28.3
*Data cable	Ø6.5mm	33.2
*Data cable	Ø7.0mm	38.5
*Data cable	Ø8.4mm	55.4

Mini trunking	Size mm	45% capacity
MMT00	10 x 8	18.5mm ²
MMT0	16 x 10	42mm ²
MMT1	16 x 16	77.2mm ²
MMT2	25 x 16	119.7mm ²
MMT3	38 x 16	193mm ²
MMT4	38 x 25	342mm ²
MMT5	50 x 25	449mm ²
MMT6	38 x 38	501mm ²

Maxi and Sceptre trunking

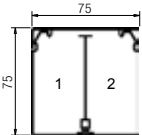


Maxi MTRS50

Total = 1979mm² total area
 Total = 890mm² 45% space factor
 1 & 2 = 911mm² total area
 1 & 2 = 410mm² 45% space factor

Internal dimensions

Compartment 1 = 46 x 46mm

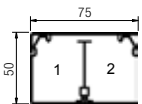


Maxi MTRS75

Total = 4709mm² total area
 Total = 2119mm² 45% space factor
 1 & 2 = 2196mm² total area
 1 & 2 = 988mm² 45% space factor

Internal dimensions

Compartment 1 = 71 x 71mm

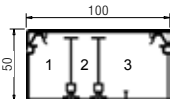


Maxi MTRS75/50

Total = 3032mm² total area
 Total = 1365mm² 45% space factor
 1 & 2 = 1347mm² total area
 1 & 2 = 606mm² 45% space factor

Internal dimensions

Compartment 1 = 71 x 46mm

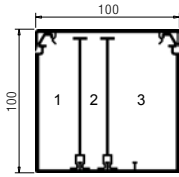


Maxi MTRS100/50

Total = 4040mm² total area
 Total = 1818mm² 45% space factor
 1 = 1056mm² total area
 1 = 475mm² 45% space factor
 2 = 660mm² total area
 2 = 297mm² 45% space factor
 3 = 1829mm² total area
 3 = 823mm² 45% space factor

Internal dimensions

Compartment 1 = 94 x 46mm

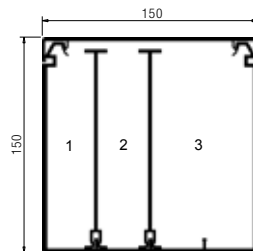


Maxi MTRS100

Total = 8733mm² total area
 Total = 3930mm² 45% space factor
 1 = 2375mm² total area
 1 = 1069mm² 45% space factor
 2 = 1464mm² total area
 2 = 659mm² 45% space factor
 3 = 4075mm² total area
 3 = 1834mm² 45% space factor

Internal dimensions

Compartment 1 = 94 x 94mm

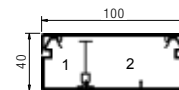


Maxi MTRS150

Total = 20193mm² total area
Internal dimensions
 Compartment 1 = 94 x 46mm
 Total = 9087mm² 45% space factor
 1 = 4406mm² total area
 1 = 1983mm² 45% space factor
 2 = 4728mm² total area
 2 = 2128mm² 45% space factor
 3 = 9482mm² total area
 3 = 4267mm² 45% space factor

Internal dimensions

Compartment 1 = 143 x 144mm



Sceptre DTR1

Total = 3168mm² total area
 Total = 1426mm² 45% space factor
 1 = 816mm² total area
 1 = 367mm² 45% space factor
 2 = 2002mm² total area
 2 = 901mm² 45% space factor

Conductor type	Size	Cable factor
Stranded PVC power	1.5mm ²	8.6
Stranded PVC power	2.5mm ²	12.6
Stranded PVC power	4.0mm ²	16.6
*Data cable	Ø5.5mm	23.8
*Data cable	Ø6.0mm	28.3
*Data cable	Ø6.5mm	33.2
*Data cable	Ø7.0mm	38.5
*Data cable	Ø8.4mm	55.4

For Data cable information, please see page 242

To determine cable capacity, select the size of the cable required and its corresponding cable factor from the table. Divide the compartment area figure (with or without 45% space factor) with the cable factor figure to achieve cable capacity.

Note: When 30mm deep accessory boxes are installed in MTRS100 and MTRS100/50, reduce the area by 2600mm².

Material

PVC-U is flame retardant and self-extinguishing. It is a 100% recyclable material.

Positioning

Feeder or distribution trunking.



Maxi and Sceptre trunking – continued

Maxi trunking Cable capacity chart	Total	Compartment 1	Compartment 2	Compartment 3
		With box	No box	With box
PVC power cable 1.5mm² stranded copper				
MTRS50	103	47	47	-
MTRS75	246	114	114	-
MTRS75/50	158	70	70	-
MTRS100/50	211	55	34	95
MTRS100	456	124	76	213
MTRS150	1056	230	247	496
PVC power cable 2.5mm² stranded copper				
MTRS50	70	32	32	-
MTRS75	168	78	78	-
MTRS75/50	108	48	48	-
MTRS100/50	144	37	23	65
MTRS100	311	84	52	145
MTRS150	721	157	168	338
PVC power cable 4.0mm² stranded copper				
MTRS50	53	24	24	-
MTRS75	127	59	59	-
MTRS75/50	82	36	36	-
MTRS100/50	109	28	17	49
MTRS100	236	64	39	110
MTRS150	547	119	128	257
Data cable: Ø5.5mm				
MTRS50	37	17	17	-
MTRS75	89	41	41	-
MTRS75/50	57	25	25	-
MTRS100/50	74	20	12	34
MTRS100	165	44	27	77
MTRS150	381	83	89	179
Data cable: Ø6.0mm				
MTRS50	31	14	14	-
MTRS75	74	34	34	-
MTRS75/50	48	21	21	-
MTRS100/50	64	16	10	29
MTRS100	138	37	23	64
MTRS150	321	70	75	150
Data cable: Ø6.5mm				
MTRS50	26	12	12	-
MTRS75	63	19	29	-
MTRS75/50	41	18	18	-
MTRS100/50	54	14	8	24
MTRS100	118	32	19	55
MTRS150	273	59	64	128
Data cable: Ø7.0mm				
MTRS50	23	10	10	-
MTRS75	55	25	25	-
MTRS75/50	35	15	15	-
MTRS100/50	47	12	7	21
MTRS100	102	27	17	47
MTRS150	236	51	55	110
Data cable: Ø8.4mm				
MTRS50	16	7	7	-
MTRS75	38	17	17	-
MTRS75/50	24	10	10	-
MTRS100/50	32	8	5	14
MTRS100	70	19	11	33
MTRS150	164	35	38	76

Cable capacities

- All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Sceptre trunking Cable capacity chart	Total	Compartment 1	Compartment 2
		No box	No box
PVC power cable 1.5mm² stranded copper			
DTR1	165	42	104
PVC power cable 2.5mm² stranded copper			
DTR1	113	29	71
PVC power cable 4.0mm² stranded copper			
DTR1	85	22	54
Data cable: Ø5.5mm			
DTR1	59	15	37
Data cable: Ø6.0mm			
DTR1	50	12	31
Data cable: Ø6.5mm			
DTR1	42	11	27
Data cable: Ø7.0mm			
DTR1	37	9	23
Data cable: Ø8.4mm			
DTR1	25	6	16

Cornice trunking

Material

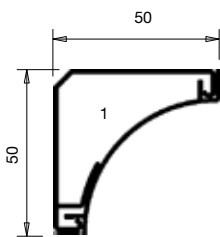
PVC-U is flame retardant and self-extinguishing. It is a 100% recyclable material.

Our PVC-U products are manufactured from an average of 80% recycled plastic, with some extruded products produced from 100% recycled material. The index at the back of the catalogue details the recycled content by individual product.

Positioning

For surface wiring around ceilings.

Dimensions



1 = 873mm² total area
 1 = 393mm² 45% space factor

Cable capacities

• All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Cable capacity chart	Cable factor	Compartment 1
PVC power cable 1.5mm ² stranded copper	8.6	45
PVC power cable 2.5mm ² stranded copper	12.6	31
PVC power cable 4.0mm ² stranded copper	16.6	23
Data cable: Ø5.5mm	23.8	16
Data cable: Ø6.0mm	28.3	13
Data cable: Ø6.5mm	33.2	11
Data cable: Ø7.0mm	38.5	10
Data cable: Ø8.4mm	55.4	7

Sovereign Plus trunking

Material

PVC-U is flame retardant and self-extinguishing. It is a 100% recyclable material.

Our PVC-U products are manufactured from an average of 80% recycled plastic, with some extruded products produced from 100% recycled material. The index at the back of the catalogue details the recycled content by individual product.

Positioning

Suitable for skirting and architrave. If used for skirting applications, a clearance of 10mm is recommended above the floor covering to maintain IP4X rating.

Bend radius control

Not available.

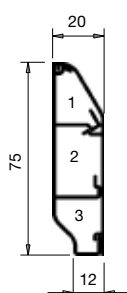
Screening

Not available.

Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below:

Dimensions



Sovereign Plus skirting

- 1 = 238mm² total area
1 = 107mm² 45% space factor
- 2 = 416mm² total area
2 = 187mm² 45% space factor
- 3 = 261mm² total area
3 = 117mm² 45% space factor

Cable capacities

- All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Cable capacity chart	Compartment 1	Compartment 2	Compartment 3
PVC power cable 1.5mm² stranded copper			
Sovereign Plus	12	21	13
PVC power cable 2.5mm² stranded copper			
Sovereign Plus	8	14	9
PVC power cable 4.0mm² stranded copper			
Sovereign Plus	6	11	7
Data cable: Ø5.5mm			
Sovereign Plus	4	7	4
Data cable: Ø6.0mm			
Sovereign Plus	3	6	4
Data cable: Ø6.5mm			
Sovereign Plus	3	5	3
Data cable: Ø7.0mm			
Sovereign Plus	2	4	3
Data cable: Ø8.4mm			
Sovereign Plus	1	3	2

Bench trunking

Material

PVC-U is flame retardant and self-extinguishing. It is a 100% recyclable material.

Our PVC-U products are manufactured from an average of 80% recycled plastic, with some extruded products produced from 100% recycled material. The index at the back of the catalogue details the recycled content by individual product.

Positioning

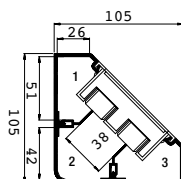
If used for skirting applications, a clearance of 10mm is recommended above the floor covering to maintain IP4X rating.

Bench and desk installations: a single run can be fitted to rear of furniture or, if run down centre line, two units can be joined back to back presenting accessories on both sides.

Antimicrobial

For technical details of antimicrobial Bio Bench trunking, please refer to Laboratory and Healthcare section on page 293.

Dimensions



Bench trunking – with box

- 1 = 1285mm² total area
- 1 = 578mm² 45% space factor
- 2 = 2128mm² total area
- 2 = 957mm² 45% space factor
- 3 = 1285mm² total area
- 3 = 578mm² 45% space factor

Bench trunking – no box

- 1 = 1782mm² total area
- 1 = 802mm² 45% space factor
- 2 = 3282mm² total area
- 2 = 1477mm² 45% space factor
- 3 = 1782mm² total area
- 3 = 802mm² 45% space factor

Cable capacities

- All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

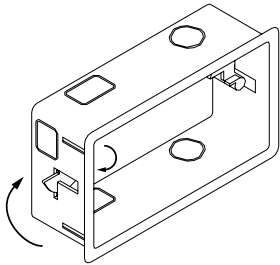
Cable capacity chart	Compartment 1		Compartment 2		Compartment 3	
	No box	With box	No box	With box	No box	With box
PVC power cable 1.5mm ² stranded copper	93	67	171	111	93	67
PVC power cable 2.5mm ² stranded copper	63	45	117	76	63	45
PVC power cable 4.0mm ² stranded copper	48	34	88	57	48	34
Data cable: Ø5.5mm	33	24	62	40	33	24
Data cable: Ø6.0mm	28	20	52	33	28	20
*Data cable: Ø6.5mm	24	17	44	28	24	17
*Data cable: Ø7.0mm	20	15	38	24	20	15
*Data cable: Ø8.4mm	14	10	26	17	14	10

*Only for straight runs. If bends are required please contact the Technical Team on +44 (0)1424 856688.



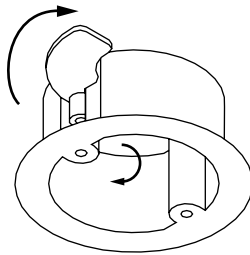
Accessory boxes and enclosures

Square and rectangular dry lining accessory boxes



Lug Colour	Adjustment
Grey	1 – 9mm
White	6 – 14mm
Green	18 – 25mm
Black	9 – 26mm

Circular dry lining accessory boxes



Lug Colour	Type
White	Dual entry box

Note: Ceiling mounted circular boxes can support 3kg centrally at 60°C maximum subject to ceiling construction.

Moulded enclosures Adaptable boxes

Adaptable boxes as supplied, have a degree of IP66 protection. Any openings that are drilled or cut into the box body and are not sealed with appropriate IP66 components, or a failure to use the silicon rubber seal fitted will negate the IP66 rating.

Cut out dimensions

Box type	Cut out size
1 gang	73 x 73mm
2 gang	135 x 73mm
Dual gang	157 x 73mm

	Dual entry
Board thickness	9-32mm
Entry	Ø20mm x2 off KO
Aperture size	Ø70.0mm
Internal depth	34mm
Fixing centres	M4.0 x 50.8mm M3.5 x 60.3mm

Screening

- Boxes available with copper spray screening to protect data outlets from electromagnetic interference.

Part M boxes and box assemblies

- Comply with the requirements of Part M (DDA)
- Odyssey coloured boxes (DD1510 and DD1520) with coloured flanges to contrast with trunking cover colour.
- ESPM box assemblies with contrasting coloured flush accessory box frames. For colour varieties please view the perimeter trunking pages.

Adjustable accessory box depth by product range

	Maximum adjustment range	Page Reference
PowerPoles and PowerPosts		
Series 1 and 2	32 - 40mm	186
PVC-U Perimeter Trunking		
Mono 10	32 - 40mm	55
Mono Plus 20	32 - 40mm	57
Compact 1	32 - 40mm	59
Compact 2	32 - 40mm	61
Compact 3	32 - 40mm	63
Twin165	32 - 47mm	66
Sterling Profile 1 - 3	32 - 45mm	68
Sterling Profile 4*	32 - 45mm	74
Sterling Curve	32 - 45mm	77
Odyssey	32 - 40mm	84
Twin Plus	32 - 47mm	86
XL Trunking 201 - 202	32 - 47mm	89
XL Trunking 211 - 212	32 - 47mm	93
PVC-U Trunking		
Bench Trunking	32 - 47mm	115
Aluminium Trunking		
Bench Trunking	32 - 47mm	152
Elegance 110	32 - 40mm	154
Sterling Profile 1 - 3	32 - 40mm	156
Sterling Curve Profile 1 & 2	32 - 40mm	160
Elegance 170	32 - 40mm	165
Twin Plus	32 - 47mm	167
XL Trunking 301 - 302	32 - 47mm	170

*The EAB1/2 can be adjusted to 45mm in the main compartment only. Where the EBE1 Base Extension is used the maximum adjustment achievable is 40mm

PVC-U Conduit

Material

PVC-U is flame retardant and self-extinguishing. It is a 100% recyclable material.

Our PVC-U products are manufactured from an average of 80% recycled plastic, with some extruded products produced from 100% recycled material. The index at the back of the catalogue details the recycled content by individual product.

Installation

The properties of PVC-U make it an all insulated system and the use of a separate earth cable is essential.

Joint sealant

- Solvent cement MSC is a slow acting solvent cement especially formulated for watertight conduit fittings.

In accordance with COSHH Regulations, details of our solvents are entered in The National Poison Centre computer records. Health & Safety data sheets are available from our Technical Team or on the technical page of the Marshall-Tufflex website: www.marshall-tufflex.com

MT Supertube

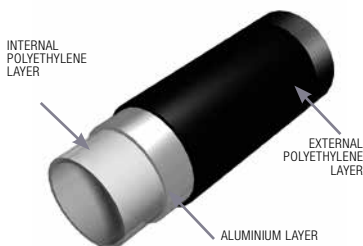
General information

MT Supertube provides LSOH polyethylene-coated aluminium cable protection for installation where halogen free products are a requirement.

Material

Conduit: A seamless aluminium tube sandwiched between two layers of extruded LSOH polyethylene.

Fittings: LSOH polycarbonate or cast metal with paint finish. (black or white).

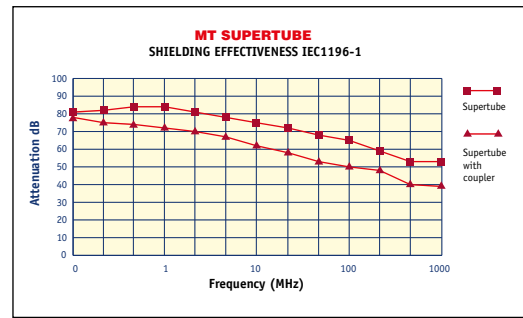


Shielding effectiveness

Shielding effectiveness (attenuation in dB) measures the ratio between the external environment field strength and the field strength after passing through any material. This is recorded in a logarithmic scale.

Shielding effectiveness	
Attenuation in dB	Field strength reduction
6	2
20	10
40	100
60	1000
80	10000

MT Supertube multi layer conduit systems absorbs and reflect emitted radiation from sources of interference, where an attenuation of 80dB would reduce the resultant field within MT Supertube by a factor of 10,000. (See tables.)



The graphs above show that the shielding effectiveness of MT Supertube is highly effective throughout the entire frequency range and will provide protection from interference for data, telecoms and signal cables.

Mechanical		MT Supertube & MT Supertube FR	MT Supertube & MT Supertube FR
Tube reference		22010/22003	22505/22503
Outside diameter	(mm) OD	20	25
Internal diameter	(mm) ID	15.5	20
Wall thickness	(mm) W	2.25	2.5
Minimum bend radius	(8 x dia)	160	200
Weight per metre	(g)	145	184
Lengths	(m)	100/3	50/3
Suspension distance (maximum)	Horizontal (mm)	1000	
	Vertical (mm)	1200	

Mechanical	MT Supertube	MT Supertube FR
Electrical breakdown resistance	20,000 V	20,000 V
Temperature range °C	-45 +120	-45 +289
Thermal expansion coefficient	2.0 x 10-6mm/m/K	2.0 x 10-6mm/m/K
Thermal conductivity	0.45 W (mK)	0.45 W (mK)
Earth bonding/continuity test results	<0.05 Ω	<0.05 Ω
Standards	EN 61386-21	EN 61386-21
	IEC 601196-1	IEC 601196-1

WARNING NAIL PENETRATION: MT Supertube FR Plus complies with the current requirements for BS 7671, BS 8436 and BS EN 61386. Screening to ENIEC 1196-1.

MT Supertube FR Plus performance

Fire Performance				
Oxygen Index	BS EN ISO 4589-2	46.5%		
Flammability Temperature (Temperature Index)	BS EN ISO 4589-3	289°C		
Elemental composition	Lassaigne Sodium	Nitrogen	Negative	
		Fusion	Chloride	Negative
			Bromide	Negative
			Fluoride	Negative
			Sulphur	Negative
Smoke Density	Low Smoke			

Conduit Performance (BS EN 50086.1.2)	
Cold temperature impact test	Heavy gauge performance
Compression	Low compression
Resistance to flame propagation	Pass

TECHNICAL INFORMATION



Callmaster fire and safety systems

Material

PVC-U is flame retardant and self-extinguishing. It is a 100% recyclable material. It complies with the requirements of BS 4761 Parts 6 and 7 and BS 4678. The Callmaster system is designed to comply with IET Wiring Regulations BS 7671:2018.

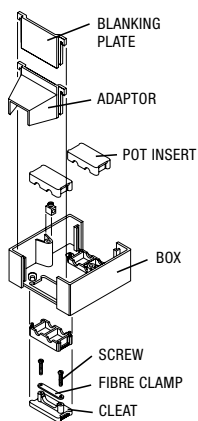
Boxes

Dimensional data for square boxes

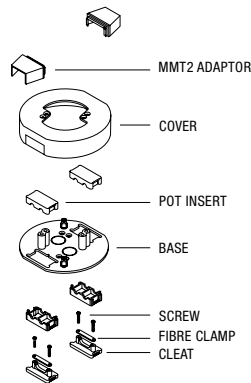
- Overall: 87 x 87mm
- Depth: 38mm external; 35mm internal
- Fixing centres: 60.3mm
- Pot size: Ø15mm

Dimensional data for circular boxes

- Overall diameter: 123mm excluding adaptors
- Depth: 28mm external; 24mm internal
- Dual fixing centre: 50.8 and 60.3mm
- Pot size: Ø15mm



Mini trunking additional adaptors



Intumescent (fire barrier) pads

Marshall-Tufflex dry lining boxes are available with intumescent (fire barrier) pads to comply with the current version of the BS 7671 Wiring Regulations and Document B of the UK Building Regulations.



Firefly Fire Clips

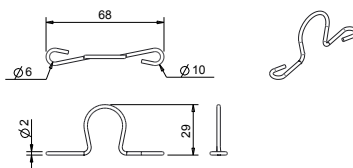
Standards

Compliant with the general principles of BS 5839-1:2013 Section 26.2d when independently tested.

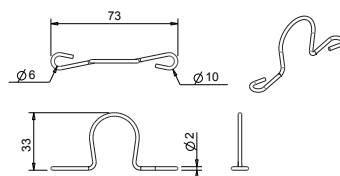
Dimensions

Conduit Firefly Clips

FCCR20

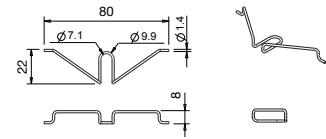


FCCR25

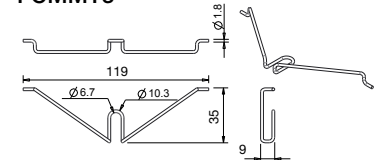


Mini Trunking Firefly Clips

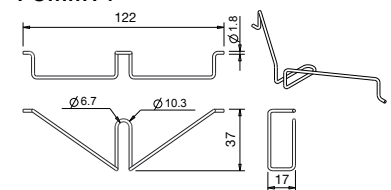
FCMMT2



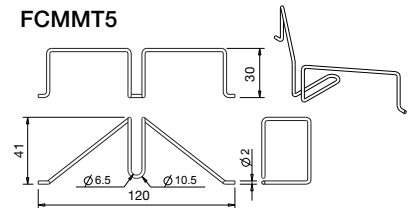
FCMMT3



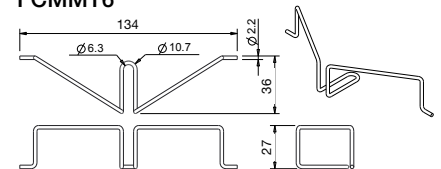
FCMMT4



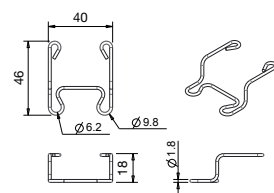
FCMMT5



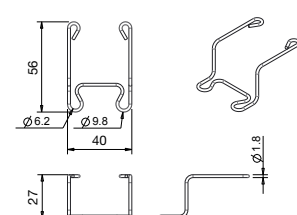
FCMMT6



FCXMMT2

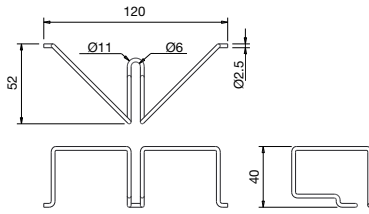


FCXMMT4

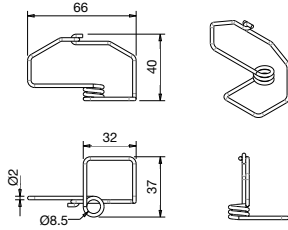


Maxi Trunking Firefly Clips

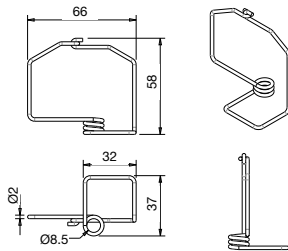
FCMTRS50



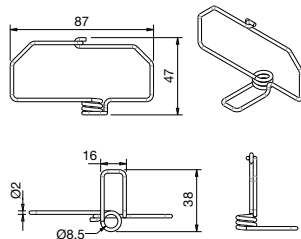
FCMTRS75-50



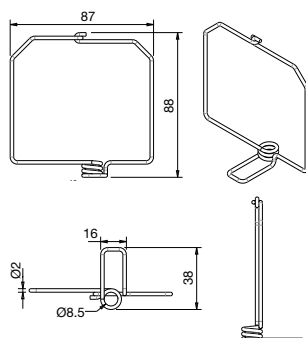
FCMTRS75



FCMTRS100-50

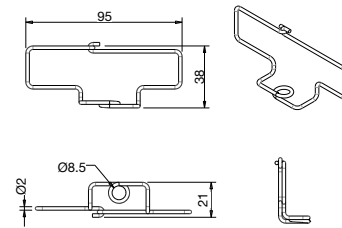


FCMTRS100

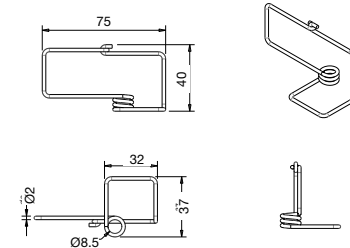


Mono 10 Firefly Clips

FCM10C (centre compartment)

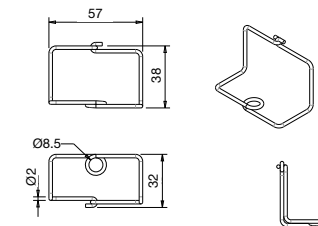


FCM20C (centre compartment)

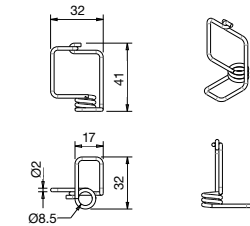


Sterling Firefly Clips

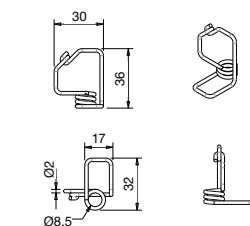
FCSPC (centre compartment)



FCSPS (square compartment)

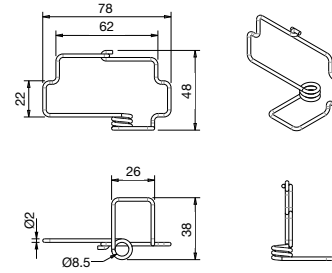


FCSPAC (angle/curve compartment)

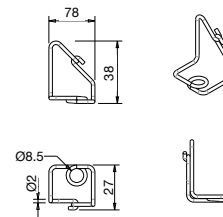


Odyssey Firefly Clips

FCOC (centre compartment)

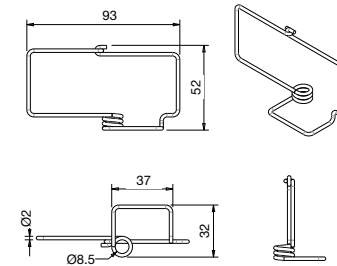


FCOO (outer compartment)



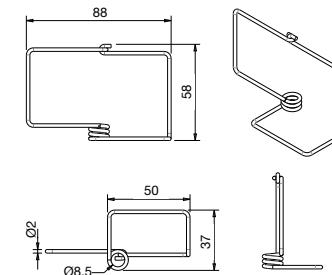
Twin Plus Firefly Clips

FCTP

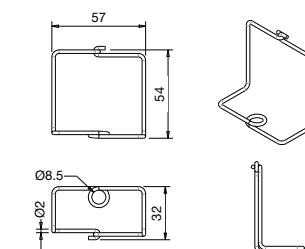


Twin165 Firefly Clips

FCT165L (large compartment)



FCT165S (small compartment)



Self Tapping Masonry Screw 4.7mm x 37mm and washers

We recommend that self-tapping masonry screws are used when installing Firefly fire clips.



- DESIGNED FOR** Fixing of Firefly clips to trunking, timber track and general components into concrete and masonry.
- HEAD STYLE** Countersunk
- DRIVE BIT** Phillips 2
- DRILL POINT** Nail point
- COATING** 500hr Evoshield®
- SHANK MATERIAL** Carbon steel
- MATERIAL GRADE** AISI C1022

Size	Fixture Thickness mm	Minimum Drill Depth mm	Minimum Embedment Depth mm	Pilot Hole mm
4.7 x 37mm	5.0 – 20.0	35.0	25.0	4.35

Characteristic pull out loads				
Embedment depth mm	35N /mm ² concrete kN	Common masonry kN	Dense block kN	Hollow block kN
25	2.3	1.3	1.4	n/a
30	4.3	1.5	2.0	5.0
35	5.2	2.3	2.8	5.4

Hardness Rating (Vickers scale)	
Surface Hardness HV	Core Hardness HV
630.0	430.0

Ultimate mechanical performance	
Tensile Strength kN	Shear Strength kN
10.8	13.0

Influence of Concrete Strength on Performance								
Concrete Strength (As per BS EN 206-1:2000) depth mm	Nominal Embedment Depth mm	Concrete Grade						
		C20/25	C25/30	C30/37	C34/45	C40/50	C50/60	>C50/60
30N/mm ²	32.0	0.70	1.00	1.00	1.10	1.15	1.20	1.25

Advanced Setting Data		
Substrate Type	Category	
n/a	Nominal embedment depth	
Non cracked concrete (>30N/mm ²)	Minimum base material thickness	
	Minimum screw spacing	
	Minimum edge distance	
	Minimum edge distance	
Cracked concrete (>30N/mm ²)	Minimum base material thickness	
	Minimum screw spacing	
	Minimum edge distance	

Influence of Edge Distance on Performance / Influence of Anchor Spacing on Performance										
% of stated minimum	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Reduction Factor	0.45	0.55	0.65	0.70	0.70	0.75	0.80	0.85	0.90	1.0

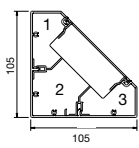
Testing

All test results were derived from empirical testing performed by ETAS (Evolution Testing & Analytical Services) a UKAS (United Kingdom Accreditation Service) accredited testing laboratory (Accreditation No. 7485). The following tests were performed to the following standards.

Test / Parameter	Standard / Method / Procedure
Ultimate Tensile	ISO 6892-1:2009 "Metallic materials – tensile testing – Part 1: Method of test at room temperature."
Ultimate Shear	MIL-STD-1312-13 "Military Standard: Fastener test method (Method 13) Double shear test."
Pull Out (Withdrawal Force)	EN 14566:2009 "Mechanical fasteners for gypsum plasterboard systems. Definitions, requirements and test methods."
Pull Over	EN 14592:2008 "Timber structures. Dowel type fasteners. Requirements."
Hardness	ISO 650 7-1: 2005 "Metallic materials – Vickers hardness test - Part 1: Test Method."
Corrosion Resistance	EN ISO 9227: 2012 "Corrosion tests in artificial atmospheres. Salt spray tests".
Drilling Time Test	EN 14566: 2009 "Mechanical fasteners for gypsum plasterboard systems. Definitions, requirements and test methods."

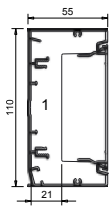
Aluminium trunking capacity guide

Trunking height up to 150mm



Bench trunking – no box
 1 & 3 = 1842mm² total area
 1 & 3 = 829mm² 45% space factor
 2 = 3342mm² total area
 2 = 1504mm² 45% space factor

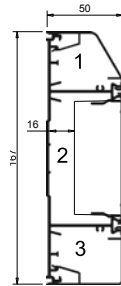
With box in comp 2
 2 = 2188mm² total area
 2 = 984mm² 45% space factor
Internal dimensions
 Compartment 1 = 101 x 101mm



Elegance 110 aluminium – no box
 1 = 5254mm² total area
 1 = 2364mm² 45% space factor

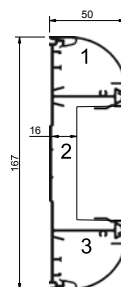
With box in comp 1
 1 = 2987mm² total area
 1 = 1344mm² 45% space factor
Internal dimensions
 Compartment 1 = 107 x 52mm

Trunking height from 150mm to 200mm



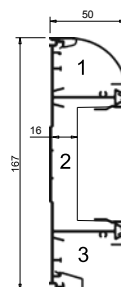
Sterling Profile 2 – no box
 1 = 1060mm² total area
 1 = 477mm² 45% space factor
 2 = 3802mm² total area
 2 = 1711mm² 45% space factor
 3 = 1400mm² total area
 3 = 630mm² 45% space factor

With box in comp 2
 2 = 1535mm² total area
 2 = 691mm² 45% space factor
Internal dimensions
 Compartment 1 = 39 x 45mm
 Compartment 2 = 86 x 46mm
 Compartment 3 = 37 x 45mm



Sterling Curve Aluminium Profile 1 – no box
 1 & 3 = 993mm² total area
 1 & 3 = 447mm² 45% space factor
 2 = 3275mm² total area
 2 = 1474mm² 45% space factor

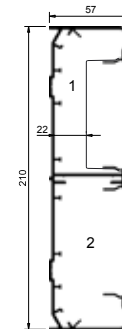
With box in comp 2
 2 = 959mm² total area
 2 = 432mm² 45% total area
Internal dimensions
 Compartment 1 = 32 x 39mm
 Compartment 2 = 71 x 46mm
 Compartment 3 = 32 x 39mm



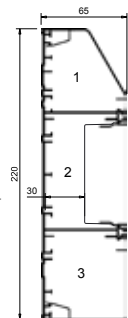
Sterling Curve Aluminium Profile 2 – no box
 1 = 993mm² total area
 1 = 447mm² 45% space factor
 2 = 3275mm² total area
 2 = 1474mm² 45% space factor
 3 = 1035mm² total area
 3 = 466mm² 45% space factor

With box in comp 2
 2 = 959mm² total area
 2 = 432mm² 45% total area
Internal dimensions
 Compartment 1 = 32 x 39mm
 Compartment 2 = 71 x 46mm
 Compartment 3 = 29 x 39mm

Trunking height over 200mm



Twin Plus – no box
 1 & 2 = 5000mm² total area
 1 & 2 = 2250mm² 45% space factor
With box in comps 1 or 2
 1 & 2 = 2733mm² total area
 1 & 2 = 1230mm² 45% space factor
Internal dimensions
 Compartment 1 = 95 x 52mm
 Compartment 2 = 95 x 52mm



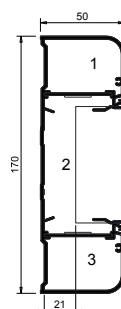
XL302 – no box
 1 = 2680mm² total area
 1 = 1206mm² 45% space factor
 2 = 4639mm² total area
 2 = 2088mm² 45% space factor
 3 = 3490mm² total area
 3 = 1570mm² 45% space factor

With box in comp 2
 2 = 1123mm² total area
 2 = 505mm² 45% space factor
Internal dimensions
 Compartment 1 = 64 x 62mm
 Compartment 2 = 84 x 62mm
 Compartment 3 = 64 x 61mm

To determine cable capacity, select the size of the cable required and its corresponding cable factor from the table. Divide the compartment area figure (with or without 45% space factor) with the cable factor figure to achieve cable capacity.

Conductor type	Size	Cable factor
Stranded PVC power	1.5mm ²	8.6
Stranded PVC power	2.5mm ²	12.6
Stranded PVC power	4.0mm ²	16.6
*Data cable	Ø5.5mm	23.8
*Data cable	Ø6.0mm	28.3
*Data cable	Ø6.5mm	33.2
*Data cable	Ø7.0mm	38.5
*Data cable	Ø8.4mm	55.4

For Data cable information, please see page 242



Elegance 170 Aluminium – no box
 1 = 1764mm² total area
 1 = 794mm² 45% space factor
 2 = 4508mm² Total Area
 2 = 2029mm² 45% space factor

With box in comp 2
 2 = 1748mm² total area
 2 = 787mm² 45% space factor
Internal dimensions
 Compartment 1 = 36 x 49mm
 Compartment 2 = 91 x 52mm
 Compartment 3 = 36 x 49mm

Calculations
 Please note that all the above calculations are based on a box depth of 30mm

Bench trunking aluminium

Material

Aluminium trunking is manufactured from high precision extruded aluminium with a powder coat finish.

White RAL 9016

Silver Grey RAL 9006

Accessory boxes are supplied in polycarbonate which is 100% recyclable.

Positioning

Bench and desk installations: a single run can be fitted to rear of furniture or, if run down centre line, two units can be joined back to back presenting accessories on both sides.

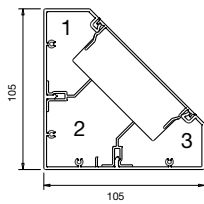
Bend radius control

Contact our Technical Team on +44 (0)1424 856688

Screening

Aluminium containment protects internal circuits from external electromagnetic interference. For internal segregation and screening, use a screened dividing fillet.

Dimensions



Bench trunking – with box

- 1 = 1345mm² total area
- 1 = 605mm² 45% space factor
- 2 = 2188mm² total area
- 2 = 984mm² 45% space factor
- 3 = 1345mm² total area
- 3 = 605mm² 45% space factor

Bench trunking – No box

- 1 = 1842mm² total area
- 1 = 828mm² 45% space factor
- 2 = 3342mm² total area
- 2 = 1504mm² 45% space factor
- 3 = 1842mm² total area
- 3 = 828mm² 45% space factor

Cable capacities

- All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Cable capacity chart	Compartment 1		Compartment 2		Compartment 3	
	No box	With box	No box	With box	No box	With box
PVC power cable 1.5mm ² stranded copper	40	35	165	116	40	79
PVC power cable 2.5mm ² stranded copper	27	24	112	79	27	24
PVC power cable 4.0mm ² stranded copper	21	18	85	60	21	18
Data cable: Ø5.5mm	14	12	59	41	14	12
Data cable: Ø6.0mm	12	10	50	35	12	10
Data cable: Ø6.5mm	10	9	42	30	10	9
Data cable: Ø7.0mm	9	7	36	25	9	7
Data cable: Ø8.4mm	6	5	25	18	6	5

Only for straight runs. If bends are required please contact the Technical Team on +44 (0)1424 856688.

Elegance Aluminium

Material

Aluminium trunking is manufactured from high precision extruded aluminium with a powder coat finish.

White RAL 9016 (Elegance 110 only)

Silver Grey RAL 9006

Accessory boxes are supplied in polycarbonate which is 100% recyclable.

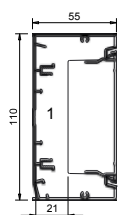
Positioning

Elegance can be installed at dado level or as a bench-mounted installation.

Screening

Aluminium containment will protect all internal circuits from external electromagnetic interference. For internal segregation metallic dividing fillets are available.

Dimensions



Elegance 110

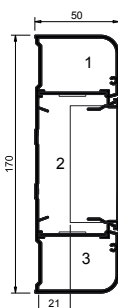
1 = 5254mm² total area

1 = 2364mm² 45% space factor

With box in comp 1

1 = 2987mm² total area

1 = 1344mm² 45% space factor



Elegance 170

1 & 3 = 1764mm² total area

1 & 3 = 794mm² 45% space factor

Without Accessory

2 = 4508mm² total area

2 = 2029mm² 45% space factor

With Accessory

2 = 1748mm² total area

2 = 787mm² 45% space factor

Cable capacities

- All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Cable capacity chart Total cables = Volume/cable factor	Elegance 110		Elegance 170			
	Compartment 1		Compartment 1	Compartment 2		Compartment 3
	No box	With box		No box	With box	
PVC power cable 1.5mm ² stranded copper	274	156	92	235	91	92
PVC power cable 2.5mm ² stranded copper	187	106	63	161	62	63
PVC power cable 4.0mm ² stranded copper	142	80	47	122	47	47
Data cable: Ø5.5mm	99	56	33	85	33	33
Data cable: Ø6.0mm	83	47	28	71	27	28
Data cable: Ø6.5mm	72	40	23	61	23	23
Data cable: Ø7.0mm	61	34	20	52	20	20
Data cable: Ø8.4mm	42	24	14	36	14	14

Sterling Profile aluminium

Material

Aluminium trunking is manufactured from high precision extruded aluminium with a powder coat finish.

White RAL 9016

Silver Grey RAL 9006

Sterling Curve is available in Silver Grey only.

Accessory boxes are supplied in polycarbonate which is 100% recyclable.

Positioning

Suitable for dado and skirting. If used for skirting applications, a clearance of 10mm is recommended above the floor covering to maintain IP4X rating.

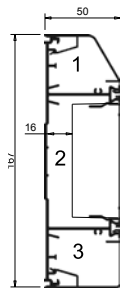
Bend radius control

Contact our Technical Team on +44 (0)1424 856688

Screening

Aluminium containment will protect all internal circuits from external electromagnetic interference. For internal segregation and screening, use a screened dividing fillet.

Dimensions



Sterling Profile 2 - no box

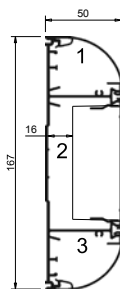
- 1 = 1060mm² total area
- 1 = 477mm² 45% space factor
- 2 = 3802mm² total area
- 2 = 1711mm² 45% space factor
- 3 = 1400mm² total area
- 3 = 630mm² 45% space factor

Note: The dimensions shown in this drawing can be used to work out dimensions for Sterling Profiles 1 & 3

Sterling Profile 3002 - with box

- 2 = 1535mm² total area
- 2 = 691mm² 45% space factor

Note: The dimensions shown in this drawing can be used to work out dimensions for Sterling Profile 3001

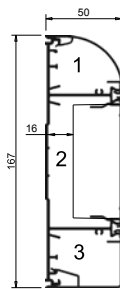


Sterling Curve Aluminium Profile 1 - no box

- 1 & 3 = 993mm² total area
- 1 & 3 = 447mm² 45% space factor
- 2 = 3275mm² total area
- 2 = 1474mm² 45% space factor

With box in comp 2

- 2 = 959mm² total area
- 2 = 432mm² 45% total area



Sterling Curve Aluminium Profile 2 - no box

- 1 = 993mm² total area
- 1 = 447mm² 45% space factor
- 2 = 3275mm² total area
- 2 = 1474mm² 45% space factor
- 3 = 1035mm² total area
- 3 = 466mm² 45% space factor

With box in comp 2

- 2 = 959mm² total area
- 2 = 432mm² 45% total area

Sterling Profile aluminium – continued

Cable capacities

- All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Cable capacity chart	Compartment 1		Compartment 2		Compartment 3	
	No box	With box	No box	With box	No box	With box
PVC power cable 1.5mm² stranded copper						
Sterling Profile 1	52	–	171	50	52	–
Sterling Profile 2	52	–	171	50	54	–
Sterling Profile 3	54	–	171	50	54	–
Sterling Curve Profile 1	51	–	171	50	51	–
Sterling Curve Profile 2	51	–	171	50	54	–
PVC power cable 2.5mm² stranded copper						
Sterling Profile 1	35	–	116	34	35	–
Sterling Profile 2	35	–	116	34	36	–
Sterling Profile 3	36	–	116	34	36	–
Sterling Curve Profile 1	35	–	116	34	35	–
Sterling Curve Profile 2	35	–	116	34	36	–
PVC power cable 4.0mm² stranded copper						
Sterling Profile 1	27	–	88	26	27	–
Sterling Profile 2	27	–	88	26	28	–
Sterling Profile 3	28	–	88	26	28	–
Sterling Curve Profile 1	26	–	88	26	26	–
Sterling Curve Profile 2	26	–	88	26	28	–
Data cable: Ø5.5mm						
Sterling Profile 1	18	–	62	18	18	–
Sterling Profile 2	18	–	62	18	19	–
Sterling Profile 3	19	–	62	18	19	–
Sterling Curve Profile 1	18	–	62	18	18	–
Sterling Curve Profile 2	18	–	62	18	19	–
Data cable: Ø6.0mm						
Sterling Profile 1	15	–	52	15	15	–
Sterling Profile 2	15	–	52	15	16	–
Sterling Profile 3	16	–	52	15	16	–
Sterling Curve Profile 1	15	–	52	15	15	–
Sterling Curve Profile 2	15	–	52	15	16	–
Data cable: Ø6.5mm						
Sterling Profile 1	13	–	44	13	13	–
Sterling Profile 2	13	–	44	13	14	–
Sterling Profile 3	14	–	44	13	14	–
Sterling Curve Profile 1	13	–	44	13	13	–
Sterling Curve Profile 2	13	–	44	13	14	–
Data cable: Ø7.0mm						
Sterling Profile 1	11	–	38	11	11	–
Sterling Profile 2	11	–	38	11	12	–
Sterling Profile 3	12	–	38	11	12	–
Sterling Curve Profile 1	11	–	38	11	11	–
Sterling Curve Profile 2	11	–	38	11	12	–
Data cable: Ø8.4mm						
Sterling Profile 1	8	–	26	7	8	–
Sterling Profile 2	8	–	26	7	8	–
Sterling Profile 3	8	–	26	7	8	–
Sterling Curve Profile 1	8	–	26	7	8	–
Sterling Curve Profile 2	8	–	26	7	8	–

Twin Plus aluminium

Material

Aluminium trunking is manufactured from high precision extruded aluminium with a powder coat finish.
Silver Grey RAL 9006

Accessory boxes are supplied in polycarbonate which is 100% recyclable.

Positioning

Suitable for skirting and architrave. If used for skirting applications, a clearance of 10mm is recommended above the floor covering to maintain IP4X rating.

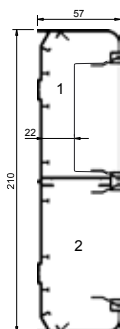
Bend radius control

The bend radius control fittings for Twin Plus provide a bend radius of 50mm.

Screening

Aluminium containment will protect all internal circuits from external electromagnetic interference. For internal segregation and screening, use a screened dividing fillet.

Dimensions



Twin Plus trunking – with accessory box

- 1 = 2733mm² total area
- 1 = 1230mm² 45% space factor
- 2 = 2833mm² total area
- 2 = 1275mm² 45% space factor

Twin Plus trunking – no box

- 1 = 5000mm² total area
- 1 = 2250mm² 45% space factor
- 2 = 5100mm² total area
- 2 = 2295mm² 45% space factor

Cable capacities

- All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Cable capacity chart	Compartment 1		Compartment 2	
	No box	With box	No box	With box
PVC power cable 1.5mm ² stranded copper	261	143	261	143
PVC power cable 2.5mm ² stranded copper	178	97	178	97
PVC power cable 4.0mm ² stranded copper	135	74	135	74
Data cable: Ø5.5mm	94	51	94	51
Data cable: Ø6.0mm	79	43	79	43
Data cable: Ø6.5mm	67	37	67	37
Data cable: Ø7.0mm	58	31	58	31
Data cable: Ø8.4mm	40	22	40	22

XL trunking aluminium

Material

Aluminium trunking is manufactured from high precision extruded aluminium with a powder coat finish.

Accessory boxes are supplied in polycarbonate which is 100% recyclable.

Positioning

Suitable for skirting and architrave. If used for skirting applications, a clearance of 10mm is recommended above the floor covering to maintain IP4X rating.

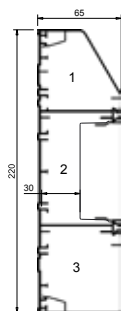
Bend radius control

For data bend radius control fittings for XL, please contact our Technical Team on +44 (0)1424 856688.

Screening

Aluminium containment will protect all internal circuits from external electromagnetic interference. For internal segregation and screening, use a screened dividing fillet.

Dimensions



XL302 – no box

- 1 = 2680mm² total area
- 1 = 1206mm² 45% space factor
- 2 = 4639mm² total area
- 2 = 2087mm² 45% space factor
- 3 = 3490mm² total area
- 3 = 1570mm² 45% space factor

XL302 – with box

- 2 = 1123mm² total area
- 2 = 505mm² 45% space factor

Note: The dimensions shown in this drawing can be used to work out dimensions for XL301

Cable capacities

- All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Cable capacity chart	Compartment 1		Compartment 2		Compartment 3	
	No box	With box	No box	With box	No box	With box
PVC power cable 1.5mm² stranded copper						
XL301	140	–	242	58	140	–
XL302	140	–	242	58	182	–
PVC power cable 2.5mm² stranded copper						
XL301	95	–	165	40	95	–
XL302	95	–	165	40	124	–
PVC power cable 4.0mm² stranded copper						
XL301	72	–	125	30	72	–
XL302	72	–	125	30	94	–
Data cable: Ø5.5mm						
XL301	50	–	87	21	50	–
XL302	50	–	87	21	66	–
Data cable: Ø6.0mm						
XL301	42	–	73	17	42	–
XL302	42	–	73	17	55	–
Data cable: Ø6.5mm						
XL301	36	–	62	15	39	–
XL302	36	–	62	15	49	–
Data cable: Ø7.0mm						
XL301	31	–	54	13	31	–
XL302	31	–	54	13	40	–
Data cable: Ø8.4mm						
XL301	21	–	37	9	21	–
XL302	21	–	37	9	28	–

Steel trunking Series 130 and Series 170

Material

Steel trunking is manufactured from pre-galvanised steel with a powder coat finish to RAL 9010.

Positioning

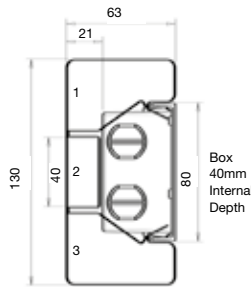
- System 130: suitable for dado installation.
- System 170: suitable for dado and skirting installation.

If used for skirting applications, a clearance of 10mm is recommended above the floor covering to maintain IP4X rating.

Screening

Steel containment protects internal circuits from external electromagnetic interference. For internal segregation and screening, use the steel dividing fillet 351189.

Dimensions

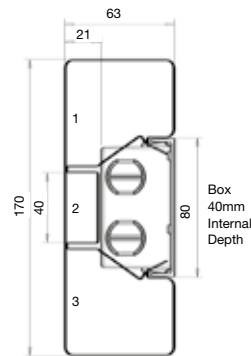


System 130 trunking 130 x 63mm

Compartments 1 & 3 = 1585mm² (each) total area
 Compartments 1 & 3 = 713mm² (each) 45% space factor
 Compartment 2 = 760mm² total area (with box)
 Compartment 2 = 342mm² 45% space factor (with box)

Internal dimensions

Compartment 1 = 128 x 61mm



System 170 trunking 170 x 63mm

Compartments 1 & 3 = 2812mm² (each) total area
 Compartments 1 & 3 = 1265mm² (each) 45% space factor
 Compartment 2 = 760mm² total area (with box)
 Compartment 2 = 342mm² 45% space factor (with box)

Internal dimensions

Compartment 1 = 168 x 61mm

p180

Product Information

Cable capacities

- All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Cable capacity chart	Compartment 1		Compartment 2		Compartment 3	
	No box	With box	No box	With box	No box	With box
PVC power cable 1.5mm² stranded copper						
System 130	82	-	-	37	82	-
System 170	147	-	-	39	147	-
PVC power cable 2.5mm² stranded copper						
System 130	56	-	-	25	56	-
System 170	100	-	-	27	100	-
PVC power cable 4.0mm² stranded copper						
System 130	42	-	-	19	42	-
System 170	76	-	-	20	76	-
Data cable: Ø5.5mm						
System 130	30	-	-	13	30	-
System 170	53	-	-	14	53	-
Data cable: Ø6.0mm						
System 130	25	-	-	11	25	-
System 170	44	-	-	12	44	-
Data cable: Ø6.5mm						
System 130	21	-	-	9	21	-
System 170	38	-	-	10	38	-
Data cable: Ø7.0mm						
System 130	18	-	-	8	18	-
System 170	32	-	-	8	32	-
Data cable: Ø8.4mm						
System 130	12	-	-	5	12	-
System 170	22	-	-	6	22	-

To determine cable capacity, select the size of the cable required and its corresponding cable factor from the table. Divide the compartment area figure (with or without 45% space factor) with the cable factor figure to achieve cable capacity.

Conductor type	Size	Cable factor
Stranded PVC power	1.5mm ²	8.6
Stranded PVC power	2.5mm ²	12.6
Stranded PVC power	4.0mm ²	16.6
*Data cable	Ø5.5mm	23.8
*Data cable	Ø6.0mm	28.3
*Data cable	Ø6.5mm	33.2
*Data cable	Ø7.0mm	38.5
*Data cable	Ø8.4mm	55.4

For Data cable information, please see page 242

Series 1 Double sided PowerPole

Code	Description	Quantity
PP36001	250mm adj. slide incl	1 pack
A	NPPFB2 Fixing Bracket	1
B	PHAS1 Adjusting Slide	1
C	PPSN1 Sliding Nut	3
D	PPTC1 Top Cover (white only)	1
E	PL1 Lid 3600mm	2
F	PPMB1 Pole 3600mm	1
G	ESSB1 Single Gang Box	6
I	PPBF3 Base Foot (Metal)	2
J	PPBF1 Base Foot (white only)	1
K	ES1 Spacing Cover	5
L	PPBT1 16mm Bonding Terminal Ass.	1
PPF1KIT	#Fixing Kit	1

Accessory Kits

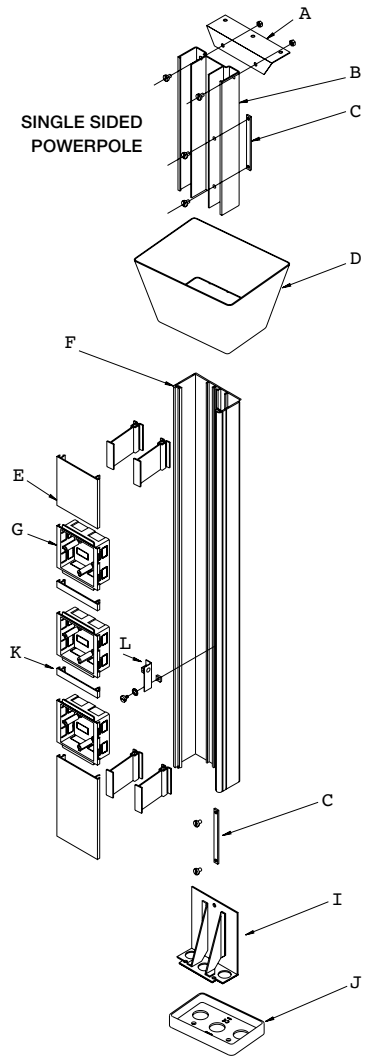
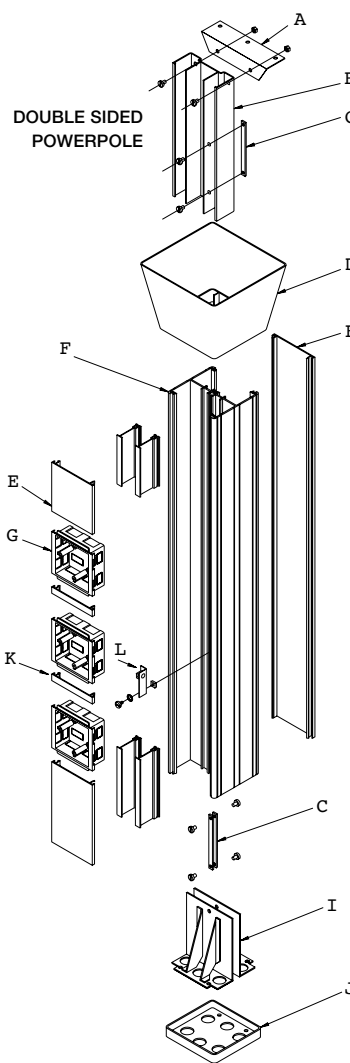
Accessory kits are available to order using the code PPAKIT and include the items within the above table marked in bold text.

Full installation instructions are included within each pack.

PPF1KIT Fixing Kit includes the following items:

- 8 x M5x8 slotted pan head steel m/c screws
- 6 x M5 internal tooth steel lock washers
- 2 x M5 Nyloc Nut

1400mm Extension Pole body kits available to increase Pole height to 5.0m.



Series 1 Single sided PowerPole

Code	Description	Quantity
PPS36001	250mm adj. slide	1 pack
A	NPPFB2 Fixing Bracket	1
B	PHAS1 Adjusting Slide	1
C	PPSN1 Sliding Nut	2
D	PPTC2 Top Cover (white only)	1
E	PL1 Lid 3600mm	1
F	PPSS1 Single Sided Pole 3600mm	1
G	ESSB1 Single Gang Box	6
I	PPBF3 Base Foot (Metal)	1
J	PPBF4 Base Foot (white only)	1
K	ES1 Spacing Cover	5
L	PPBT1 16mm Bonding Terminal Ass.	1
PPF1KIT	#Fixing Kit	1

Accessory Kits

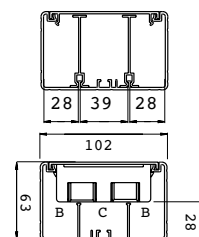
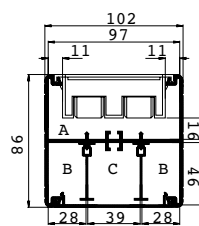
Accessory kits are available to order using the code PPAKIT2 and include the items within the above table marked in bold text.

Full installation instructions are included within each pack.

PPF1KIT Fixing Kit includes the following items:

- 8 x M5x8 slotted pan head steel m/c screws
- 6 x M5 internal tooth steel lock washers
- 2 x M5 Nyloc Nut

Dimensions and cable capacities



Double sided PowerPole

A = 2017 sq mm total area 45% space factor = 907 sq mm.

Without Accessory Box

A = 4284 sq mm total area 45% space factor = 1927 sq mm.

B = 1148 sq mm total area 45% space factor = 516 sq mm.

C = 1547 sq mm total area 45% space factor = 696 sq mm.

Single sided PowerPole

B = 1115 sq mm total area 45% space factor = 502 sq mm.

C = 1119 sq mm total area 45% space factor = 504 sq mm.

Adjusting slide for PowerPoles

*PowerPoles are suitable for both solid and suspended ceilings up to 3.6 metres high. An alternative adjusting slide which can be extended to one metre is available for additional heights within the ceiling void (part code PHAS2).



Series 2 PowerPole

Double sided PowerPole

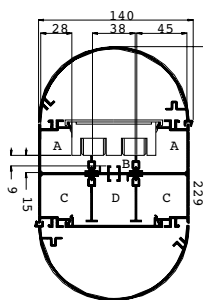
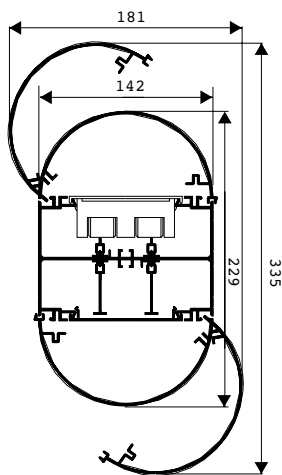
with 4 hinged lids and 14 ESSB1WH outlets (NPPE36001441)

Code	Description	Quantity
FF	NPPMB3600A/W# Square PowerPole base 3600mm long	1
A	NPPHLA/W# Hinged lid assembly	4
P	NPPCL1720A/W# Clip on lid 1720mm long	2
Q	NPPCL50A/W# Clip on lid 50mm long	2
R	NPPCL200A/W# Clip on lid 200mm long	2
J	NPPUT Hinged lid upper trim	4
K	NPPLT Hinged lid lower trim	4
GG	NPPTC3 Oval top sliding cover	1
HH	NPPBF5 Oval base foot	1
B	NPPBH1 Bulkhead	8
II	PPBF3 Base foot (galvanised)	2
E	NPPCC1 Cable clip	8
C	ESSB1 Single gang box	14
D	ES1 Spacing cover	12
F	NPPH1 Stainless steel hinges	8
I	PPSN1 Sliding nut	3
H	NPPLH1 Disc latch	12
M	NPPMC1 Magnet catch	12
G	NPPLBS1 Hinged lid bonding strap	4
LBS2	Clip on lid bonding strap	6
L	PPBT1 16mm bonding terminal assembly	1
S	PHAS1 Top adjusting slide 250mm long	1
T	NPPFB2 Top fixing bracket	1
W	MDFS100W1630 100mm dividing fillet 1630mm long	4
Y	MDFS50W710 50mm dividing fillet 710mm long	4
Z	MDFS50W200 50mm dividing fillet 200mm long	4
AA	MDFS15W632 15mm dividing fillet 632mm long	4
JJ	MDFS50W175 50mm dividing fillet 175mm long	4
V	ETL1W633 Sterling lid 633mm long	2

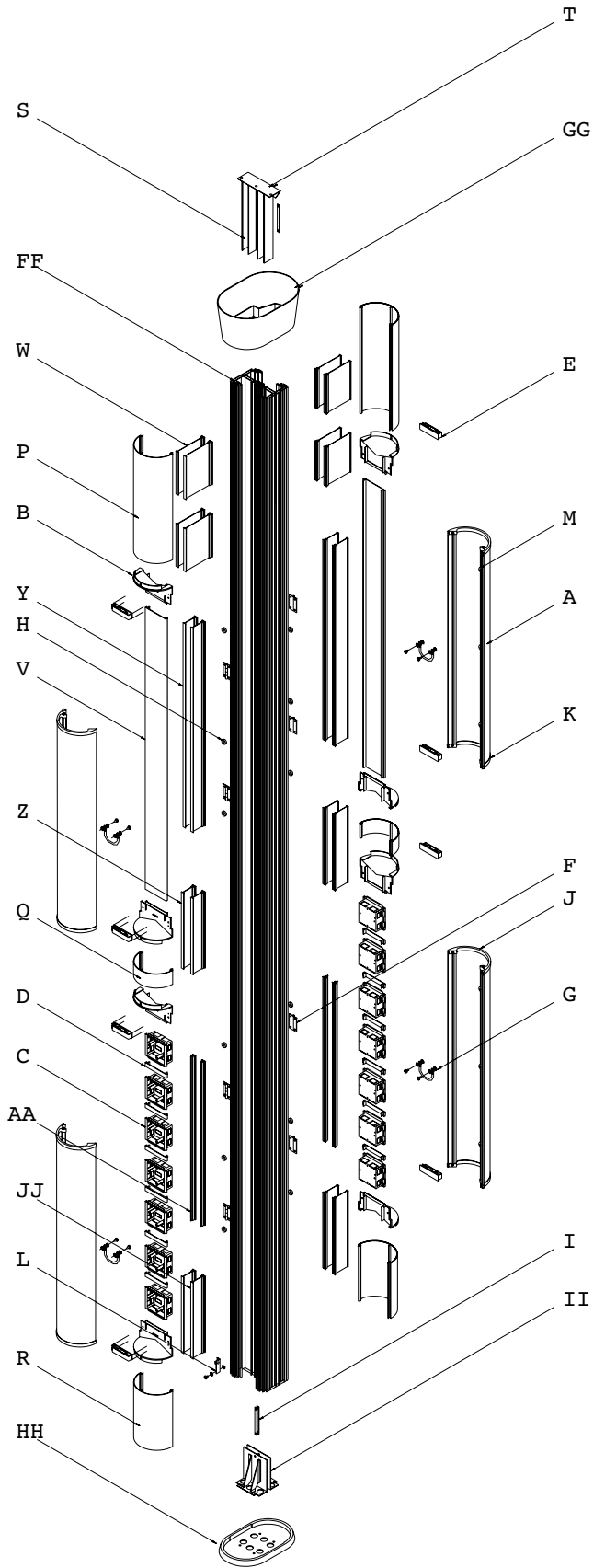
#Please use A or W to denote anodised or white

Full installation instructions are included within each pack.

Dimensions and cable capacities



- A = 1313 sq mm total area
45% space factor = 591 sq mm.
- B = 505 sq mm total area
45% space factor = 227 sq mm.
- C = 1798 sq mm total area
45% space factor = 809 sq mm.
- D = 1628 sq mm total area
45% space factor = 733 sq mm.



TECHNICAL INFORMATION

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Product Information

Series 1 Double sided PowerPost

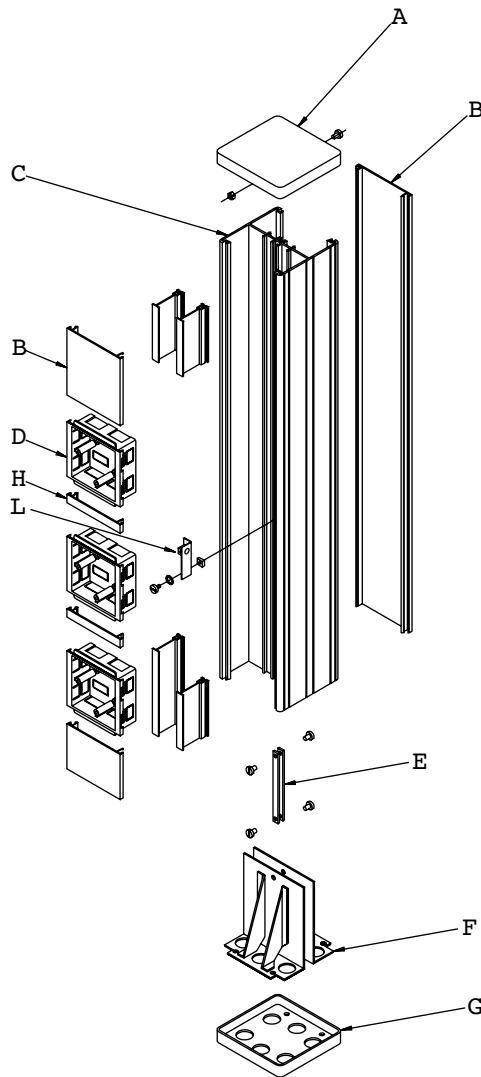
Code	Description	Quantity
PP685		1 pack
A	PPC1 Cap	1
B	PL2 Lid	2
C	PPMB2 Post	1
D	ESSB1 Single Gang Box	6
E	PPSN1 Sliding Nut	2
F	PPBF3 Base Foot (Metal)	2
G	PPBF1 Base Foot (white only)	1
H	ES1 Spacing Cover	5
L	PPBT1 16mm Bonding Terminal Ass.	1
PPF2KIT	#Fixing Kit	1

The standard height of the PowerPost is 685mm and the overall height, including cap and base, is 692mm.

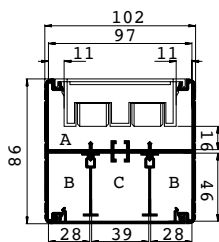
Full installation instructions are included within each pack.

PPF2KIT Fixing Kit includes the following items:

- 5 x M5x8 slotted pan head steel m/c screws
- 4 x M5 internal tooth steel lock washers
- 1 x M5 Square (8x8x4) pressed steel nut



Dimensions and cable capacities



A = 2017 sq mm total area
45% space factor = 907 sq mm.

Without Accessory Box

A = 4284 sq mm total area
45% space factor = 1927 sq mm.

B = 1148 sq mm total area
45% space factor = 516 sq mm.

C = 1547 sq mm total area
45% space factor = 696 sq mm.

MT32 Pre-wired underfloor power distribution

Underfloor Distribution System

Conduit assembly, tap off and adaptor

Cable Type	6491X (BASEC BS 6004 H07V-R)
Protective Earth (P.E)	4.0mm ² x 3 (Grey Plug)
Clean Earth (C.E)	4.0mm ² x 4 (Red Plug)
Protection: Conduit Assembly	25mm Steel flexible conduit (>1KN Tensile Load to BS EN 61386-23)
Protection: Tap Off	20mm Steel flexible conduit (>1KN Tensile Load to BS EN 61386-23)

General specification

Approvals: System	Designed to comply with the latest IET Wiring Regulations BS 7671
Approvals: Connector	Designed to comply with EN 61535:2009 (Fixed installation couplers for permanent connection)
Normal Voltage	250 volts
Frequency	50/60 Hertz
Volt Drop Line & Neutral Connector	1.0 mV/A/M
Volt Drop Line & Neutral (Flexible Cabling System) 2.5mm	19.0 mV/A/M
Volt Drop Line & Neutral (Underfloor) 4.0mm	12.0 mV/A/M
Connector Impedance	1.0m Ω/connector
Connector, Body Material	PA66 – GF25
Connector Colour Female	Black
Connector Colour Male	White
Compatibility	Keyed against incorrect insertion
Operating Temperature (Ambient)	-5°C to + 40°C
Safety	PE contact engages first
Degree of Protection	Engaged IP2XC

Earthing requirements for the installation of equipment having High Protective Conductor currents. BS7671:2018 Reg. 543.7

The scope of Reg. 543.7.1.203 requires that every final circuit intended to supply one or more items of equipment, where the total protective conductor current is likely to exceed 10mA. in normal use, shall have a high integrity protective connection.

Singles Cabling System 4.0mm²

Final Circuit

MT32 singles systems conform to the high integrity protective requirement by virtue of having a single copper protective conductor of 4mm², (Reg 543.7.1.203) with the protective conductor being enclosed throughout in trunking or flexible conduit to provide additional protection against mechanical damage.

Powertrack

Powertrack is an underfloor busbar system rated at 63Amp maximum. It is available in Standard or CE (Clean Earth) versions.

Lengths

- Powertrack lengths of 1.2m, 1.8m, 2.4m and 3.6m with tap-off outlets at 300mm

Safety

- Snap-fit feed units, couplers and tap-offs are key and colour-coded to avoid assembly errors.



Standard = grey



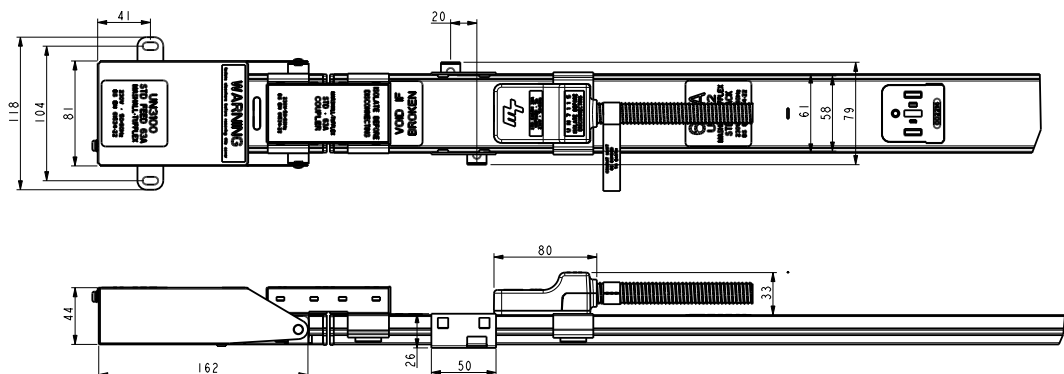
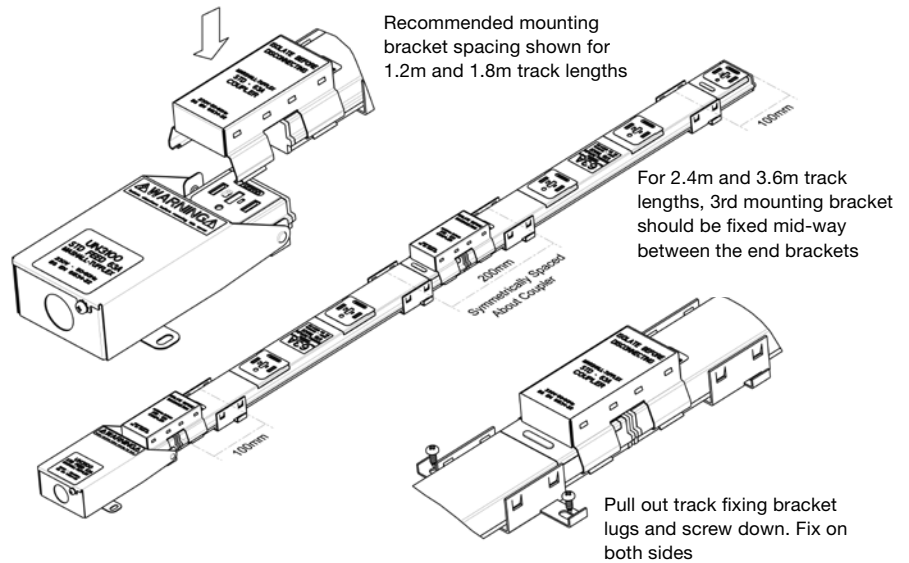
CE = red

- A shutter is operated on insertion to prevent accidental contact.
- Avoid exceeding the maximum power rating of the track. This is ascertained by the maximum power requirement for each floor outlet box

Positioning

- For the most economic format, it is advised that Powertrack is arranged in parallel runs with Powertrack feed units orientated to the incoming supply.
- For optimum layout flexibility, spacing should be a maximum of 5.5m between each length of track and 2.5m from the perimeter when using a standard 3m tap-off to a floor box.

Please refer to the full installation instructions, EL182 available at www.marshall-tufflex.com or by contacting the Technical Team on +44 (0)1424 856688.



Electrical Characteristics				
Rated Current		63	Amps	
Rated Voltage		230	Volts	
Frequency		50/60	Hz	
Conditional Short Circuit Rating	(Protection device: BS 1361 fuse)	16	KA	
Conductor Resistance Line & Neutral		4.4	mΩ/m	
Volt Drops Line & Neutral	Powertrack	4.4	mV/A/m	
	Feed Unit + Coupler	2.2	mV/A	
	Tap-Off	0.73	mV/A	
	4mm ² Cable	11.0	mV/A/m	
	Coupler	1.5	mV/A	
	Interlink Unit	4.5	mV/A	
Earth Fault Loop Impedance:	16mm ² Cable (1.2m)	3.9	mV/A/m	
	Line to Earth (Casing)	2.8	mΩ/m	
	Line to Earth (Conductor)	3.2	mΩ/m	
	Line to Earth (Conductor + Casing)	2.8	mΩ/m	
	Feed Unit + Coupler	2.2	mΩ	
	Tap-Off	0.73	mΩ	
	4mm ² Cable	11.0	mΩ/m	
	Coupler	1.5	mΩ	
	Interlink Unit	4.5	mΩ	
	16mm ² Cable	3.9	mΩ/m	
	Mechanical Data			
	Number of Copper Conductors		2 or 3	
Conductor Cross-section Area	Nominal	20	mm ²	
Powertrack Casing Copper Equivalent	(Where casing is protective Earth)	12	mm ²	
Cable Termination Capacity		16	mm ²	
Tap-Off Cable 32A		4.0	mm ²	
Tap-Off Cable 13A or 16A		4.0	mm ²	
Tap-Off Conduit Sizes	Rating: Heavy duty conduit <1KN Tensile Load to BS EN 61386-23	Ø20	mm	
Flexible Interlink Cable		16	mm ²	
Flexible Interlink Conduit	Rating: Heavy duty conduit <1KN Tensile Load to BS EN 61386-23	Ø25	mm	
Feed Conduit Entry		1 x Ø25	mm	
IP Rating		40		
Minimum void depth (track + tap-off)		59	mm	
Materials specification				
Powertrack Casing	Galvanised Steel			
Conductors	High Conductivity Copper/brass			
Powertrack Insulators	PBT			
Sockets/Tap-Off Plug/Joint Mouldings	Polycarbonate			
Shutter	PBT			
Tap-Off/Interlink Flexible Conduit	Galvanised Steel			
Tap-Off Cable	BASEC BS 6004 H07V-R			
Tap-Off/Coupler Blade	Copper			
Feed Unit Case	Galvanised Steel			
Flexible Interlink Cable	BASEC BS 6004 H07V-R			
Feed/Flexible Interlink Housing	Galvanised Steel			

Technical Specifications

Third party certified and tested to comply with:

BS EN 61534-1: 2011

BS EN 61534-22: 2009

BS 5733: 1995 where applicable.

Marshall-Tufflex is registered by BSI to BS EN ISO 9001: 2008

MT Powertrack is designed to comply with the current version of the BS 7671 Wiring Regulations.

ASTA Type Test Certification

Powertrack is independently tested by Intertek to BS EN 61534-22:2009 clauses 15.4, 18.4.3.2, & 18.4.3.3

Regulation 543.7 Installations to BS 7671:2018 Earthing requirements for the installation of equipment having High Protective Conductor currents.

The scope of Reg. 543.7.1.203 requires that every final circuit intended to supply one or more items of equipment, where the total protective conductor current is likely to exceed 10mA. in normal use, shall have a high protective connection.

All MT Powertrack tap-off units conform to the high integrity protective requirement by virtue of using a protective conductor of 4mm² enclosed within a flexible conduit, thus providing additional protection against mechanical damage. Regulation 543.7.1.203.

32Amp 3 metre tap-off unit

The 32Amp tap-off unit comprises of an unfused tap-off* a flexible metal conduit with integral 4mm² conductors.

These units are designed to comply with regulation 434.2.1(i) of BS7671:2018 by virtue of the following:

- 1 Maximum length of cable is <3 metres.
- 2 Minimum risk of faults as the item is factory assembled and fully tested.
- 3 Fully protected by flexible steel conduit located within raised access floor that offers further protection.

*Fused 3 metre tap-offs are available if required.

5 metre tap-off unit

Tap-off units in excess of 3 metres should only be used if they contain a fuse or the powertrack is protected by a 32Amp rated protective device.

Raised floor boxes

Three and four compartment boxes and a range of grommets that can be configured to meet client requirements for accessing multiple services concealed below a raised floor system.

Technical specifications

Raised floor boxes are third party tested to comply with:

BS EN 61534-22:2009

BS EN 60670-1:2005

BS EN 60670-23:2008

BS EN 50085-1:2005

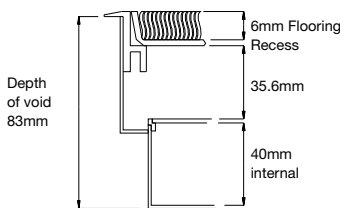
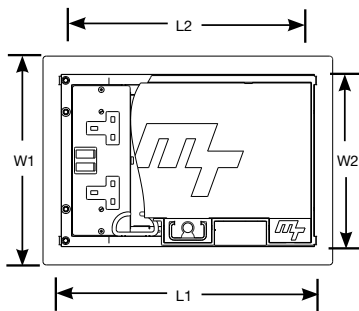
BS EN 50085-2-2:2008

Material

- Lid/trim: flame retardant polypropylene grey RAL 7011
- Box assembly: galvanised steel
- Load plate: 3mm zinc plated steel
- Accessory plate: galvanised steel

Dimensions

- For dimensions of non standard boxes and trims, contact our Technical Team on +44 (0)1424 856688.



Dimensions

No of compartments	Nominal trim size (L1 x W1)	Cut out dimensions (L2 x W2)	Accessory Plate Dimensions
3	357 x 257mm	322 x 222mm	185 x 95mm
4	357 x 257mm	322 x 222mm	185 x 71mm
		General tolerance +3mm	

Care should be taken to ensure that box edges are smoothed and free from burrs. Carpet tile cut size for lid is 303 x 166mm.

Load testing

Load testing of floor boxes to:

BS EN 61534-22:2009

BS EN 50085-2-2:2008

The floor boxes have been tested to and comply with the loading requirements of the aforementioned standards.

There are two loading criteria for the floor boxes:

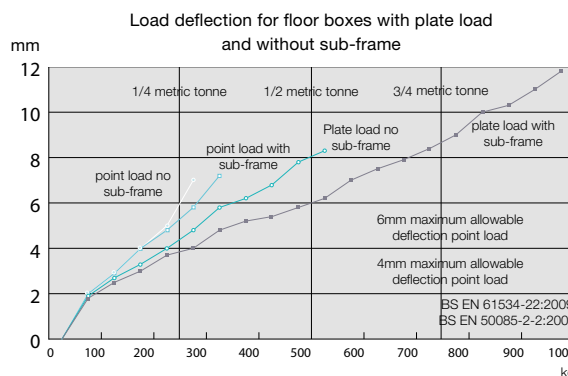
1. A point loading; to simulate foot traffic or light furniture like a chair leg / caster sitting on the lid. The maximum permissible deflection is 6mm (BS EN 61534-22:2009 and BS EN 50085-2-2:2008)
2. A plate loading; to simulate heavy foot traffic or larger furniture loads. the maximum permissible deflection is 4mm (BS EN 61534-22:2009) or 6mm (BS EN 50085-2-2:2008)

The loading graphs show the deflection based on floor boxes without and with a sub-frame. The point loading value is approaching ¼ of a metric tonne without sub-frame and reaching ¼ of a metric tonne with sub-frame. In both cases the permanent deflection is less than 0.25mm.

For plate loading without sub-frame the value is approaching ¼ of a metric tonne with 4mm deflection and ¼ of a metric tonne with 6mm deflection. With the sub-frame fitted the loading reaches ¼ of a metric tonne with 4mm deflection and ½ a metric tonne with 6mm deflection. In both cases the permanent deflection is reaching 0.5mm.

Note: floor boxes fitted with sub-frame can exceed more than 1 metric tonne plate load before lid failure. In all tests (with and without sub-frame) the required loading was reached without damage to the plastic trim or compromised the lid.

Note: The maximum permissible permanent deflection after the load has been removed is 3mm for both standards.

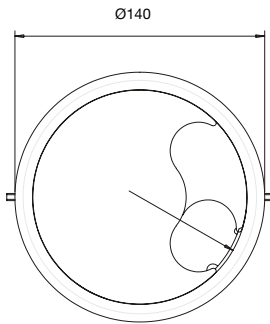


Grommets

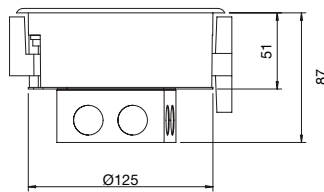
Material

- ABS Flame retardant
- Flammability: UL94 V-0 at 2.0mm
- Colour: polypropylene grey RAL 7011
- Lid: captive screwdown
- Lid recess: 15mm for extra strength
- Through power/data options

Dimensions



Cut out dimensions



In-screed system

Three and four compartment boxes configured to meet client requirements for accessing multiple services concealed within an in-screed floor system.

Standard system is suitable for screed depths of 65mm to 85mm. For other screed depths please contact our Technical Team on +44 (0)1424 856688.

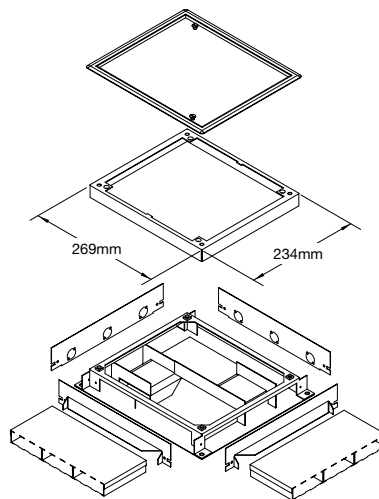
Material

- Lid/trim: polypropylene grey RAL 7011
- Frame assembly: galvanised steel
- Modular boxes: galvanised steel
- Load plate: galvanised steel

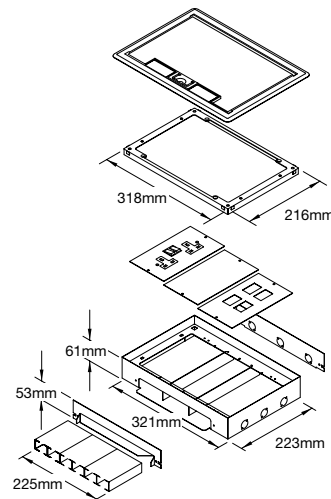
Wiring accessories and mounting plates

- 3 compartment box: 185 x 95mm
- 4 compartment box: 185 x 71mm
- For use with standard 60.3mm and 120.6mm accessories with blank or pre-punched plates for data/telecoms etc.

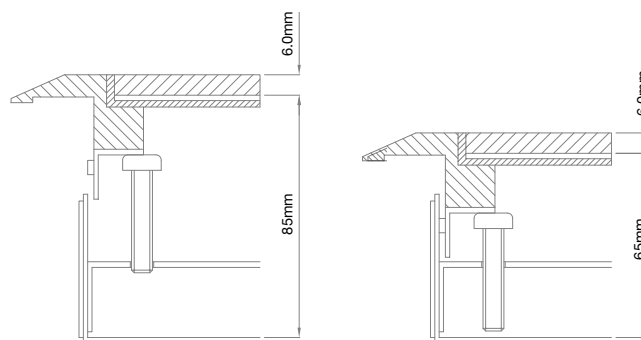
Junction box



Floor outlet box

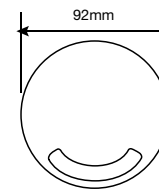


Box screed depth adjustment



Desk grommets

Dimensions



Cut out size

Box type	Diameter
DG1	80mm
General tolerance	2mm

Power and data modules

Standards

BS 1363-1

BS 1363-2 (where applicable)

BS 5733:2010+A1:2014

EN 50581:2012

EN 301 489-34(2012)

IEC 60884-1:2005

For more information please contact our Technical Team on +44 (0)1424 856688.

Material

Power and Power and Data Modules are constructed from high strength flame retardant black polycarbonate mouldings. RCBO – constructed from aluminium casing.

Insulation

Reinforced insulation.

Earth bonding:

- **Power Modules**
An external earth terminal allows connection of earth bonding leads without dismantling the unit. Please use suitable tools to cut earth lead from Power Modules if required.
- **Power and Data Modules**
Our Power and Data Modules units are supplied as standard with a prefitted 250mm earth lead to 5mm ring terminal.

Fusing

To enable compliance to BS 6396 the UK sockets are fitted with Ø5 x 20mm anti-surge ceramic fuses, with colour-coded fuse clips to denote the rating (3.15Amp or 5Amp).

RCBO rating

30mA 16Amp

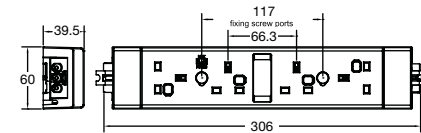
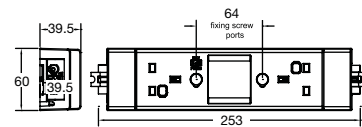
Quality and testing:

100% testing – continuity, polarity, insulation & earth

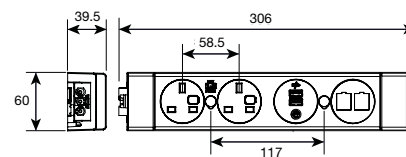
- **Power and Data Modules only**
- USB charger: Output voltage and resistance
- Data & AV: All sockets continuity tested

Dimensions

Power modules



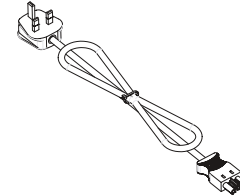
Power and data modules



Cable type

In-feed power cable shown with optional Wieland connector.

- 13Amp rating
- Specification of cable length is necessary



Power module earth lead

Size: 1.5mm²

Length: 250mm with 5mm ring terminal.

Configuration

- **Power modules**
Power only
- **Power and data modules**
2 x UK fused sockets plus 2 configurable gangs for Power, USB charging or data/AV
- **RCBOs**
Designed to be connected directly to underfloor track.
• Input connections via tap-off.
• Output connection via Wieland GST18/3.

Connection options

Power and Data Modules - Built in GST18/3 male for power in, plus optional GST18/3 female connector for power out on certain configurations.

Two modules units can be securely clipped together via the inbuilt GST18/3 connectors e.g. a DM5001 and DM5030 (both with 3.15Amp fuses) can be joined to form a BS 6396 compliant 6 socket unit.



The rear section of the Power and Data Modules can be removed for onsite data/AV installation.

GRP ladder and tray

Overview

GRP (Glass Reinforced Polyester) has, good stability to UV, great mechanical strength and is 40% lighter than steel. GRP is a non-conductive insulating material, resistant to temperatures from -80°C to +130°C and has excellent resistance to fire and corrosion being self-extinguishing and zero halogen.

Standards and Approvals

- IET Wiring Regulations BS 7671
- (LVD) 2014/35/EU
- Low Voltage Directive

Mechanical Behaviour

- Breaking point to NEMA FG1
- IEC 61537
- Tensile strength at break point to ISO 527-5
- Modulus of elasticity to ISO 527-5
- Accelerated aging to ISO 4892-2 & ISO 9227

Electrical Behaviour

- Surface resistivity to IEC 6079-0
- IEC 60093
- Breakage voltage to IEC 60243-1
- Comparative tracking index IEC 60112

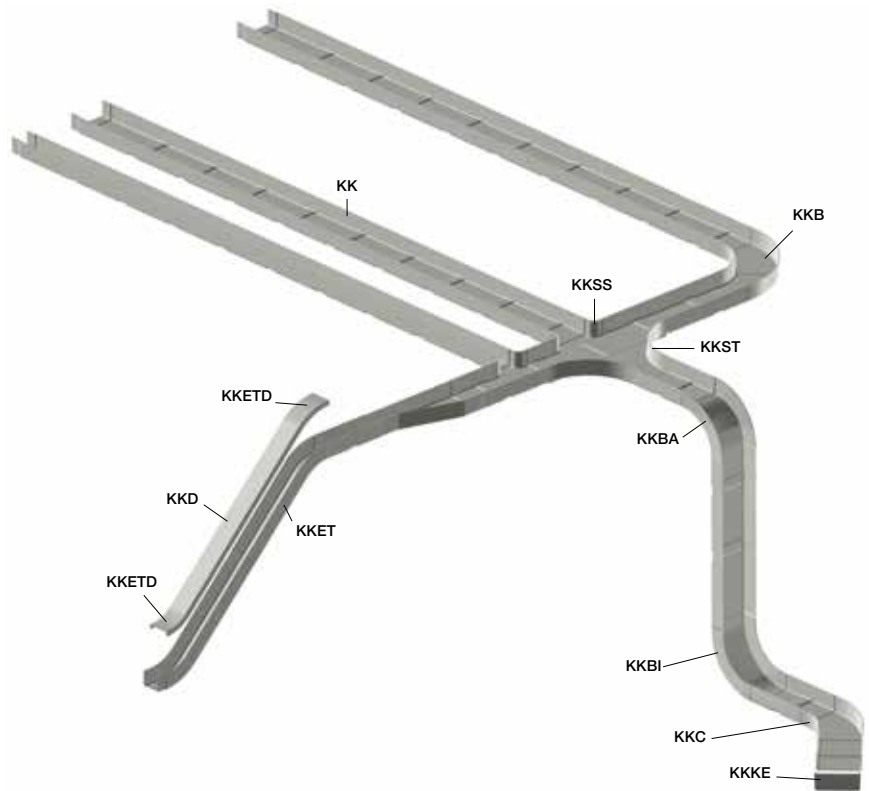
Density to DIN 53479

- Linear Thermal Dilatation to DIN 53752
- Water Absorption to ISO 62

Fire Behaviour

- Inflammability to IEC 60695-2-12/UL94
- UL 723
- DIN 5510-2
- NF-F-16101
- Spread of flame to BS 476 part 7 class 2/ ASTM E84 (Up to Class 1 on request)
- Fire propagation to BS 476 Part 6
- Smoke emissions to BS 6853 App B53
- Fire standard to DIN 4102 part 12
- Reaction to fire classification: M1

GRP tray



KKB

During installation care must be taken to position a support at each end of the cable tray fitting. It is also recommended that the large radius fitting is fixed laterally to each end of adjoining cable tray.

KK

Each length of tray comes complete with built in, self adjusting coupler. An expansion gap of 8mm must be considered for thermal movement.

KKSS

During installation care must be taken to position a support at each end of the cable tray fitting.

KKST

During installation care must be taken to position a support at each end of the cable tray entry.

KKRR

During installation every reducer must be supported at each end. It is also recommended that the reducer fitting is fixed laterally to each end of adjoining cable tray.

KKBA

During installation care must be taken to position a support at each end of the cable tray entry. It is also recommended that the outside elbow fitting is fixed laterally to each end of adjoining cable tray.

KKETD

Covers are attached using either DF50/DF80 stainless steel cover clips. In strong winds the quantity of clips should be increased.

KKD

For a stronger assembly, covers with a width greater than 400mm are strengthened. Strengthening ribs are visible on the outside of the cover. Covers are attached using either DF50/DF80 stainless steel cover clips. Under normal conditions use 3 clips alternatively on each side per 3 metres of ladders/trays. Under extreme conditions (strong winds >60km/h) use 7 clips per 3 metres of ladder/tray.

KKET

During installation all fittings must be supported at every cable entry, and central support for all fittings with a radius greater than 250mm, and/or with width greater than 400mm. It is also recommended that the change in elevation fitting is fixed laterally to each end of adjoining cable tray.

KKBI

During installation care must be taken to position a support at each end of the cable tray entry. It is also recommended that the inside elbow fitting is fixed laterally to each end of adjoining cable tray.

KKC

To ensure correct installation, the horizontal elbow must be fixed laterally to each end of the adjoining cable tray.

KKKE

Mounting accessories required for this fitting – 2 x M6x16 Bolts (to be ordered separately).

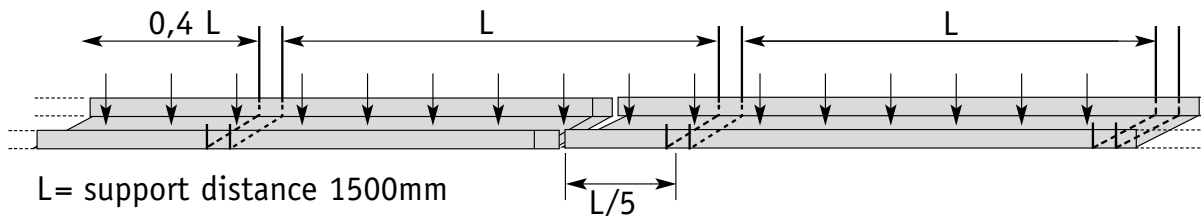
p211

Product Information

Standard span pressed tray

Load characteristics

Coefficient of safety > 1.7 (in accordance with IEC 61537) this data is given for ladders coupled with splice plates and bolts.

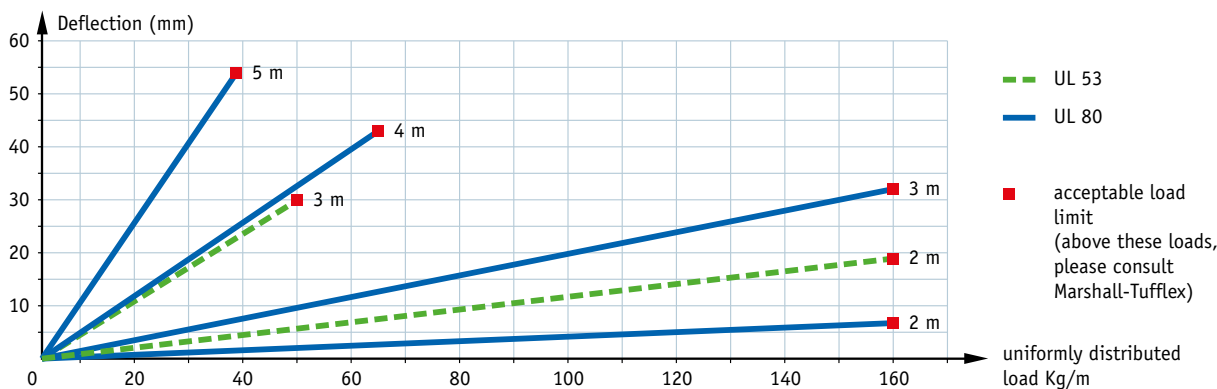


The deflection values are measured with the position of the junction between 2 ladders at a distance L/5 from a support. If this distance is not respected, it is necessary to raise the deflection values by about 30% when fully loaded.

	Useful area (mm ²)	Weight of cables kg/m	Maximum admissible load kg/m according to the distance between supports					
			2m	3m	4m	5m	6m	
UL...53	150 – 300	4420 – 9520 = 250	160	50				
	400 – 600	12920 – 19720 = 550		50				
UL...80	150 – 300	7690 – 16840 = 450	160	160	60	30		
	400 – 600	22940 – 35140 = 1000		60	30			

Optimal conditions, for cost reduction on your installation.

Series UL load diagram: supporting distances from 2 to 5m. For 100mm and 150mm wall height refer to Marshall-Tufflex.



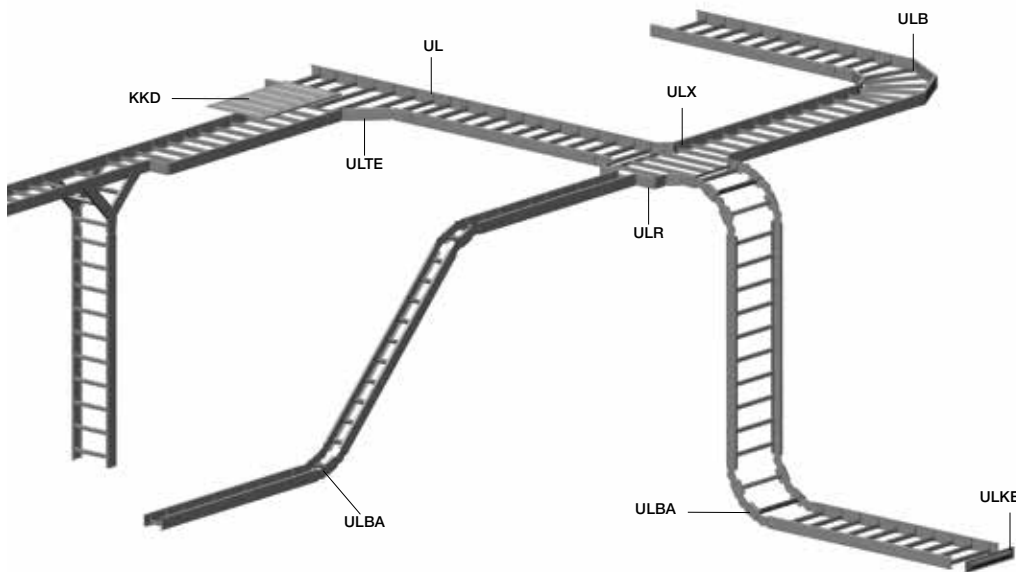
Localised loads

To be able to compare this to a uniformly distributed load it is necessary to double the value of the localised load. Example: A 60kg local load at the centre of a ladder with 3m of support distance. Equivalent load: 60 x 2 = 120kg uniformly distributed along 3m (ie 40kg/m).

Loading characteristics

- Deflection <5mm (1/300).
- Coefficient of safety >1.7 (in accordance with IEC 61537) using the interlocking and self-adjustable coupling without fasteners.
- Loading diagram details (below) in accordance with IEC 61537, at an ambient temperature of 25°C.

GRP pultruded ladder



ULB

During installation you must take care to position a support under each elbow at each cable ladder end. If the bending radius is greater than 250mm and/or the width greater than 400mm, an additional intermediary support is necessary.

UL

Cable ladders are supplied with non-perforated rungs. Should you require perforated ladder rungs please contact a member of the technical team who will be happy to assist in your enquiry.

ULX

During installation all fittings must be supported at every cable entry. A central support is required for all fittings with a bend radius greater than 250mm and/or the width greater than 400mm

ULR

During installation the stainless steel splice plates must be fixed on each cable ladder end using 8 x M6 x 16 bolts. (to be ordered separately)

KKD

For a stronger assembly, covers with a width greater than 400mm are strengthened. Strengthening ribs are visible on the outside of the cover. Covers are attached using either DF50/DF80 stainless steel cover clips. In strong winds the quantity of clips should be increased.

ULTE

During installation all fittings must be supported at every cable entry. A central support is required for all fittings with a bend radius greater than 250mm and/or the width greater than 400mm

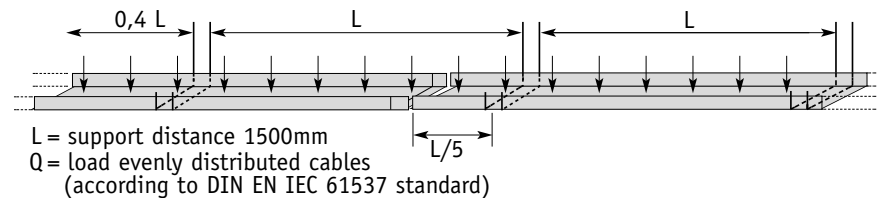
ULBA

During installation the metallic splice plates must be fixed at each cable ladder end using 4 x M6 x 16 bolts. (to be ordered separately). If the bending radius is greater than 250mm and/or the width greater than 400mm, an additional intermediary support is necessary.

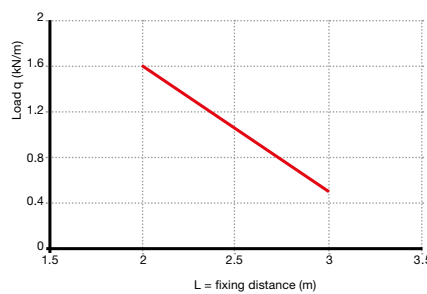
ULKE

Mounting this accessory requires 2 x M6 x 16 bolts. (to be ordered separately)

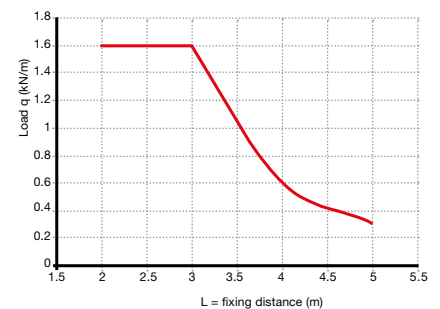
Load characteristics



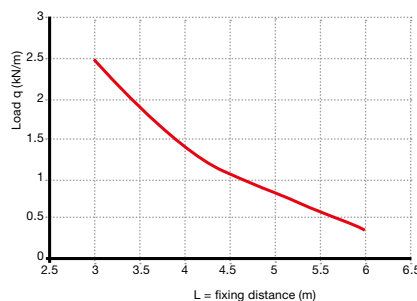
53mm High Cable Ladder



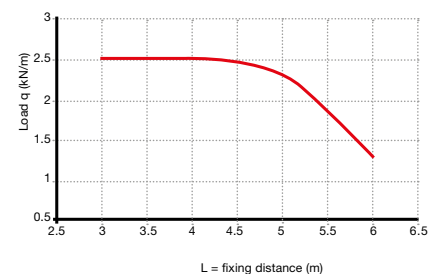
80mm High Cable Ladder



100mm High Cable Ladder



150mm High Cable Ladder



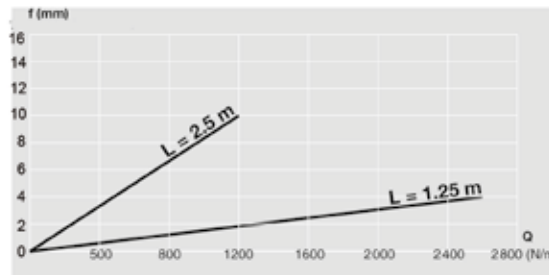
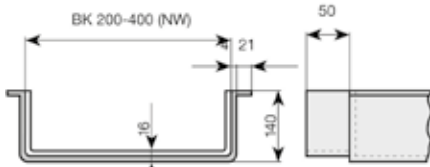
Warning: the deflection is measured with a junction position between 2 cable trays at a distance of L/5 from the support. If this distance is not respected, it is necessary to raise the deflection values by approx 30%.

GRP ground ducts

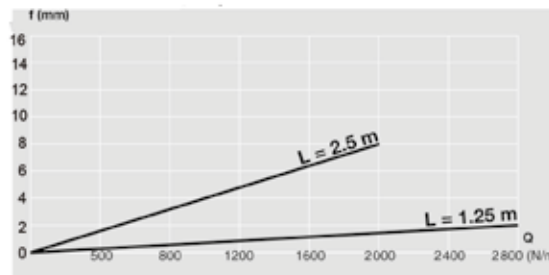
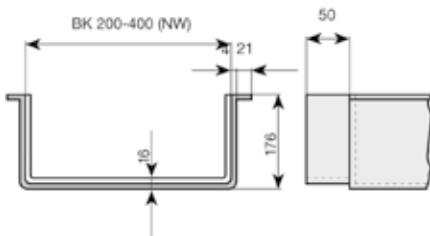
Load characteristics of ground duct

BK Height 140 mm

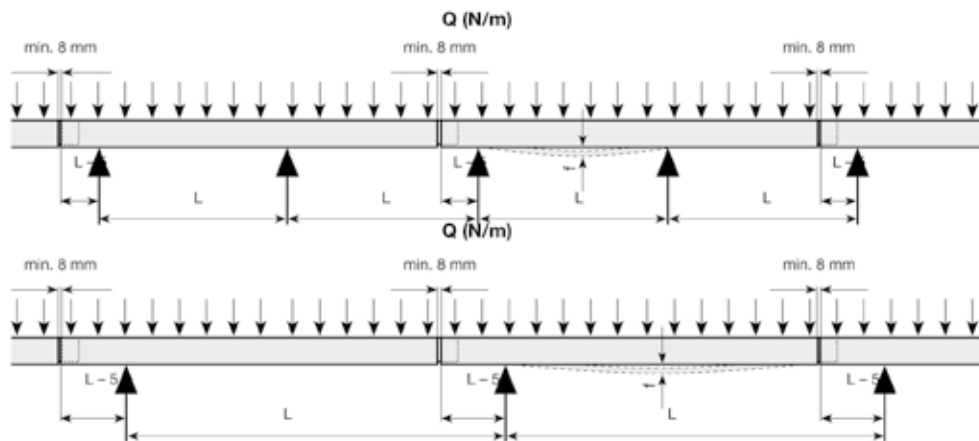
F = Deflection
L = Support Distance
Q = Distributed Load



BK Height 176 mm

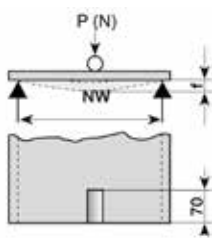


Tested in normal conditions of use



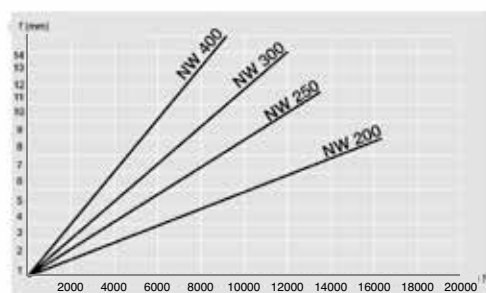
Load diagrams of plate covers

P = Load in N
f = Deflection
NW = Nominal width BK

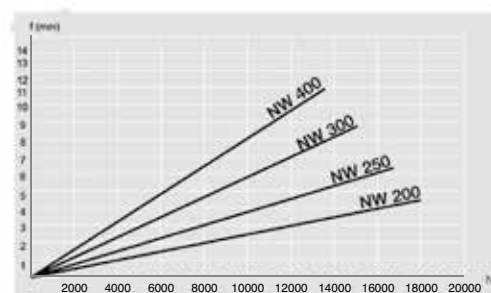


Load at edge of piece

BKDR 5mm



BKDR 8mm



Material

Electrogalvanised (ELECTROZINC/EZ)

A steel base coated with a zinc layer by electrolysis, by means of submerging the lengths in a bath composed of a zinc solution, in accordance with BS EN ISO 2081. Depending on the type of zinc layer, it shall have a different degree of protection on the steel, avoiding corrosion and enhancing the visual appearance of the length. This treatment is carried out once the length has been formed. The IEC 61537 Standard classifies the degree of resistance to corrosion of the system's components depending on the steel's electrolytic covering, belonging to Class 1 those with a minimum thickness of 5µm and to Class 2 those of 12µm. Marshall-Tufflex uses Class 2 as its standard material in order to guarantee the quality of its products against corrosion. This treatment is used in dry environments free of pollutants.

Hot Dip Galvanised Steel (HDG) Non-standard material

Laminated or rust removed galvanised after forming steel according to BS EN ISO 1461 Standard. The steel's protection is covered by a zinc coating which varies depending on the steel's thickness, offering a uniform covering. The zinc coating's thickness depends on the thickness of the base material. The IEC 61537 Standard classifies the resistance against corrosion of these galvanised steels as Class 5 for the covering of 45µm, Class 6 for 55µm, Class 7 for 70µm and Class 8 for 85µm. Hot dip galvanised steel is used in humid environments, granting a high protection during adverse atmospheric situations, light chemical situations, light marine situations and urban situations.

Stainless Steel AISI 316 (I316) Non-standard material

Denominated 14401 according to the numerical classification established by the BS EN 10088 Standard. Steel's protection happens due to the great affinity which metals such as chromium have with oxygen, which gives place to the creation of a protective chromium oxide layer which avoids the corrosion of iron. Type I316 stainless steels are similar to type 1304, but they contain a 2.5% of molybdenum which confers it a greater resistance to localised corrosion. It is ideal for use in very corrosive environments, even at high temperatures. Under special conditions, and always under order, there is the possibility of conducting a passivation process. Passivation is a treatment which enhances stainless steel's protection against corrosion by means of forming a relatively inert film on the surface of a material which protects it against the action of external agents. The passivation

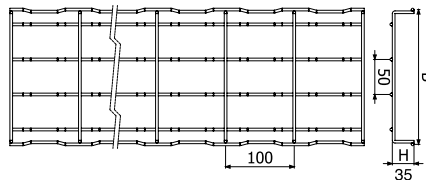
film or layer does not allow these agents to interact, reducing or stopping the chemical reaction from happening.

IEC 61537 Standard classifies this steel's resistance to corrosion as Class 9B without the passivation treatment and as Class 9D with the passivation treatment.

Stainless Steel AISI 316L, denominated 14401 according to the numerical classification established by the BS EN 10088 Standard has the same characteristics regarding corrosion as steel AISI 316, but offers a higher degree of welding and easier forming of the lengths with a thickness of more than 6mm.

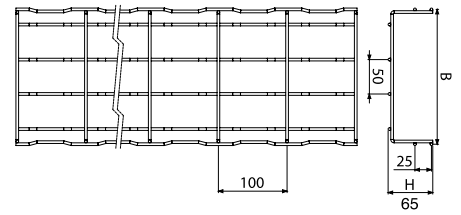
Dimensions

Height 35mm
Standard Wire Basket

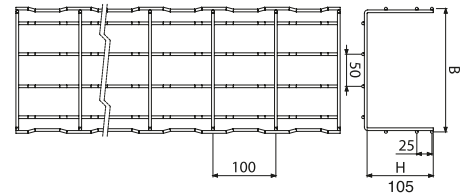


Please note:
B is equal to listed width of basket.

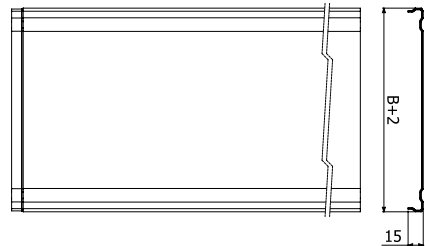
Height 65mm
Fast-Coupling Wire Basket



Height 105mm
Fast-Coupling Wire Basket



Cover



Working temperature

	Minimum working temperature	Maximum working temperature	According to Standard
Standard Wire Basket 35mm	-50°C	+150°C	IEC 61537
Fast-Coupling Wire Basket 65mm	-50°C	+150°C	IEC 61537
Fast-Coupling Wire Basket 105mm	-50°C	+150°C	IEC 61537

Resistance to corrosion

Atmospheric corrosion

Atmospheric corrosion happens when metal is exposed to liquids, solids or gases. Humidity, salt corrosive gases and dirt are its main factors. Atmospheric corrosion takes place in open air conditions, areas with poor ventilation and marine environments.

Saline corrosion happens when a metallic surface is exposed to different saline concentration levels forming a galvanic pile. At times where the surface is exposed to the lowest degree of saline concentration this will then behave as an anode for the corrosion to take place.

Chemical corrosion

Chemical corrosion happens when metal is directly exposed to chemical solutions. Depending on the concentration of the solution, contact time, cleaning frequency and ambient temperature the level of corrosion will be higher or lower.

Galvanic corrosion

Galvanic corrosion is the most common type of corrosion, and happens when two different metals are in contact with one another. When two different metals come into contact a small galvanic particle is created, as one metal acts as an anode the other acts as a cathode. The metal with the most negative reduction potential shall oxidise whilst the metal with the most positive charge shall have less corrosion.

Storage conditions

The product must be stored in a dry and well ventilated area. The product must not be stored outside even in low humidity conditions.

Free base area

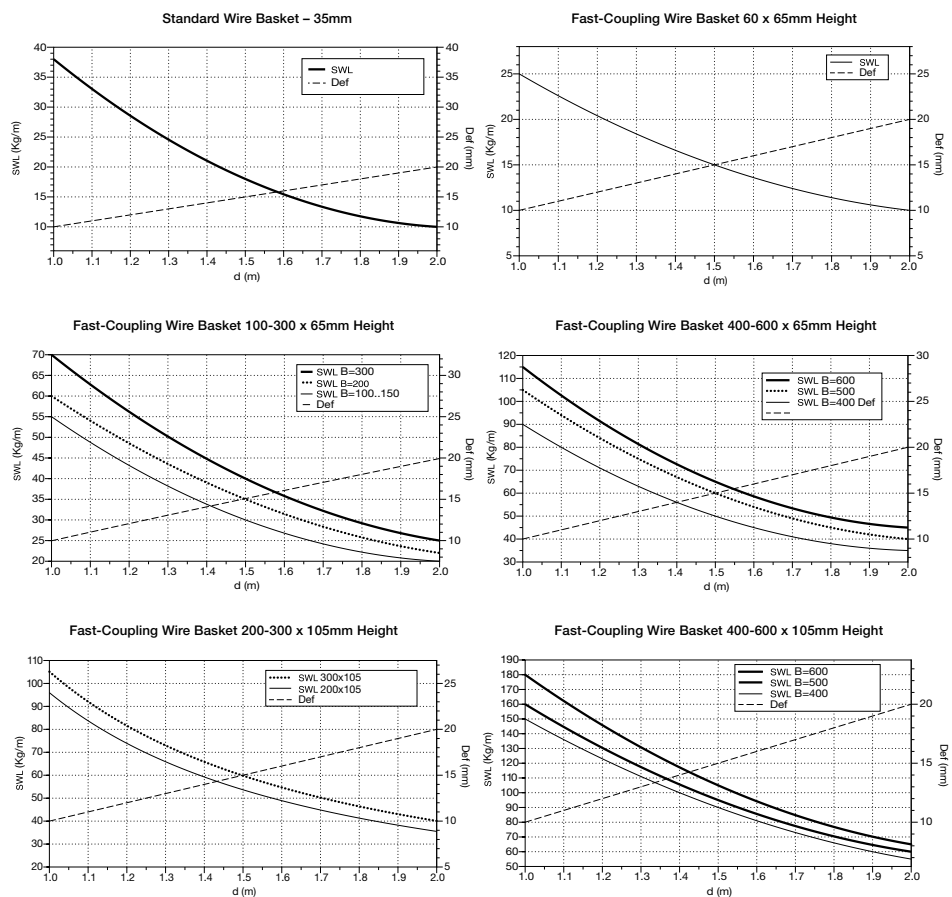
Base size	Classification	Free base area
60	Y	Over 80% and up to 90%
100	Y	Over 80% and up to 90%
150	Y	Over 80% and up to 90%
200	Y	Over 80% and up to 90%
300	Y	Over 80% and up to 90%
400	Y	Over 80% and up to 90%
500	Y	Over 80% and up to 90%
600	Y	Over 80% and up to 90%

To show the installation designer the level of ventilation allowed for the cable tray, the IEC 61537 standard established that the manufacturer has to inform of the percentage of the base 'free' (without material, in solid cable trays this means the "degree of perforation").

Safe working load (SWL)

The safe working load (SWL) is the maximum load which can be applied during normal use, without danger. Therefore, the workload shall always be less than the SWL.

The SWL of our products are calculated in accordance with IEC 61537. For any further information contact our Technical Team in +44 (0)1424 856688.



Please note:
 d is equal to distance between supports
 Def = deflection

Cable capacities

- All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Basket Width (mm)	35mm Standard Basket			65mm Fast-coupling Wire Basket			105mm Fast-coupling Wire Basket		
	Without Matting	Flexible Matting	Rigid Matting	No Cablelay	With Cablelay Matting	With Cablelay Rigid	No Cablelay	With Cablelay Matting	With Cablelay Rigid
Data Cable: Ø5.5mm									
60	-	-	-	43	39	41	-	-	-
100	51	42	46	89	80	84	-	-	-
150	79	65	72	142	127	134	-	-	-
200	109	89	99	193	173	183	365	345	355
300	168	137	152	297	266	281	562	531	546
400	-	-	-	401	358	380	759	716	738
500	-	-	-	505	451	478	956	902	929
600	-	-	-	609	544	577	1153	1088	1120
Data Cable: Ø6mm									
60	-	-	-	36	33	34	-	-	-
100	42	35	39	74	67	71	-	-	-
150	66	54	60	119	107	113	-	-	-
200	92	75	83	162	145	153	307	290	298
300	141	115	128	249	223	236	472	446	459
400	-	-	-	337	301	319	638	602	620
500	-	-	-	424	379	402	803	758	781
600	-	-	-	512	457	485	969	914	941
Data Cable: Ø6.5mm									
60	-	-	-	31	28	29	-	-	-
100	36	30	33	63	57	60	-	-	-
150	56	46	51	101	91	96	-	-	-
200	78	64	71	138	124	131	261	247	254
300	120	98	109	212	190	201	402	380	391
400	-	-	-	287	256	272	543	513	528
500	-	-	-	362	323	342	684	646	665
600	-	-	-	436	389	413	825	779	802
Data Cable: Ø7mm									
60	-	-	-	26	24	25	-	-	-
100	31	26	28	54	49	52	-	-	-
150	49	40	44	87	78	83	-	-	-
200	67	55	61	119	106	113	225	213	219
300	104	84	94	183	164	173	347	327	337
400	-	-	-	247	221	234	468	442	455
500	-	-	-	312	278	295	590	557	573
600	-	-	-	376	336	356	712	671	691
Data Cable: Ø8.4mm									
60	-	-	-	18	16	17	-	-	-
100	21	18	20	38	34	36	-	-	-
150	34	28	31	60	54	57	-	-	-
200	47	38	42	82	74	78	156	148	152
300	72	58	65	127	114	120	241	227	234
400	-	-	-	172	153	163	325	307	316
500	-	-	-	216	193	205	410	386	398
600	-	-	-	261	233	247	494	466	480

Load table

Find out the load capacity of all our wire baskets. We recommend that you plan for extra space in cable pathways during the initial installation to allow capacity for future cable additions.

For spacing factors please refer to the current version of the BS 7671 Wiring Regulations.

MT Code	Description	Weight kg/m
MT2/3616	Standard 100x35mm	0.55
MT2/3617	Standard 150x35mm	0.69
MT2/3618	Standard 200x35mm	0.83
MT2/3619	Standard 300x35mm	1.18
MT2/7389	Fast coupling 60x65mm	0.54
MT2/7248	Fast coupling 100x65mm	0.79
MT2/7249	Fast coupling 150x65mm	0.84
MT2/7250	Fast coupling 200x65mm	1.09
MT2/7251	Fast coupling 300x65mm	1.60
MT2/7394	Fast coupling 400x65mm	1.94
MT2/7395	Fast coupling 500x65mm	2.72
MT2/7396	Fast coupling 600x65mm	3.13
MT2/7397	Fast coupling 200x105mm	1.59
MT2/7398	Fast coupling 300x105mm	1.93
MT2/7399	Fast coupling 400x105mm	2.71
MT2/7400	Fast coupling 500x105mm	3.12
MT2/7401	Fast coupling 600x105mm	3.53

EMC and data

It is recommended to separate power and data circuits by a minimum of 20cm. (EN 50174-2)

Where power and data circuits must cross, this must be done at 90 degrees.

Wire Basket systems without electrical continuity do not protect against electromagnetic fields. Make sure electrical continuity is preserved by using the appropriate earth bonding accessories.

Electrical continuity

Our Fast-Coupling Wire Basket conforms to IEC 61537. The wire mesh basket has an impedance lower than:

- ⚡ 50mΩ across the joint
- ⚡ 5mΩ per metre in a straight section

Fire resistance

Marshall-Tufflex and Basor Electric certifies that the wire basket installed with the below mentioned characteristics complies with Class E90 of function maintenances, in accordance with Standard DIN 4102, Section 12.

This system incorporates Standard Wire Basket with a height of 65mm. This system uses Fast Fix Wall Bracket supports fixed to the wall and reinforced on the ceiling using the Variable Support Bracket, M8 Threaded Rod and M8 Nut on one side, as per the below image.



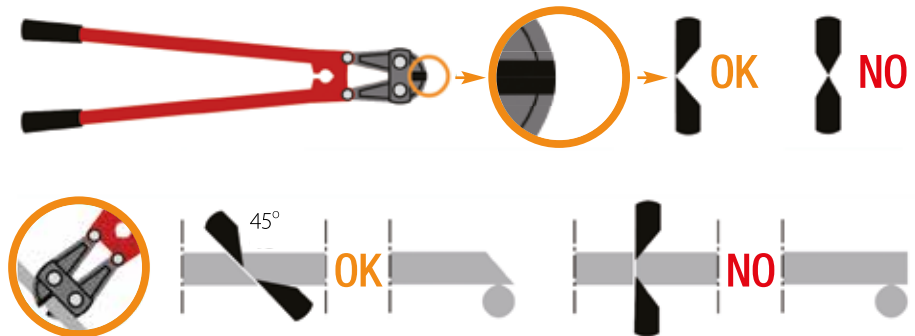
The distance between supports is of 1.2m and the maximum load is of 10kg/m. The system may have one or two levels.

Earth bonding

For earth bonding requirements please refer to the current version of the BS 7671 Wiring Regulations.

Cutting

Always use asymmetrical cut wire cutters. Cut as close as you can to where horizontal and vertical rods cross each other, as shown.

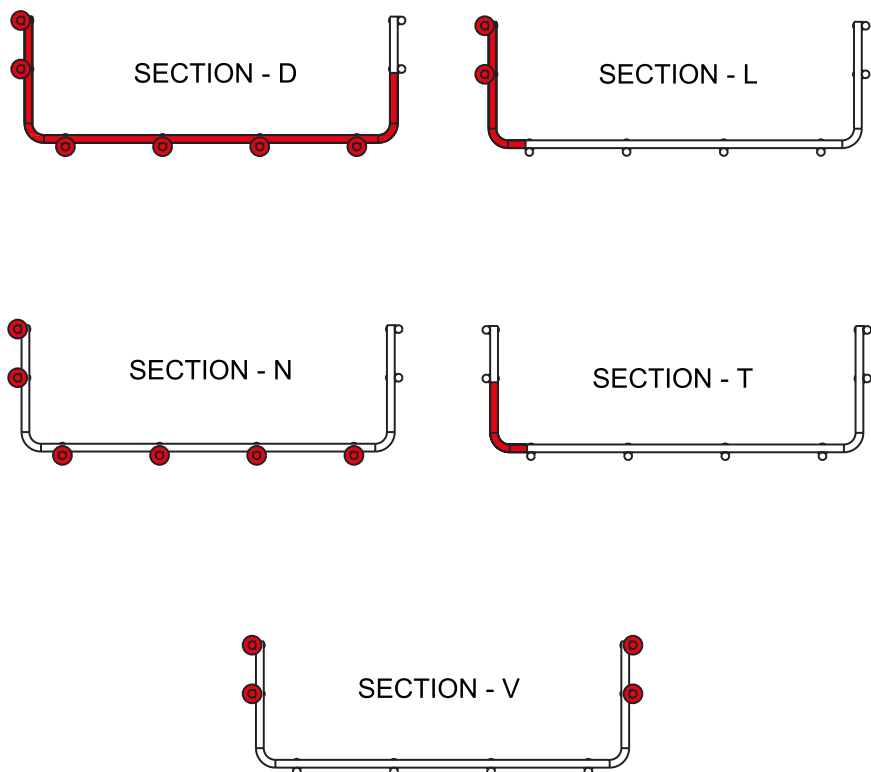


We recommend always placing the basket on a flat surface to make the cuts.

Wire gauge:

- 100mm - 200mm Width = 4.0mm
- 300mm - 400mm Width = 4.3mm
- 500mm - 600mm Width = 4.6mm

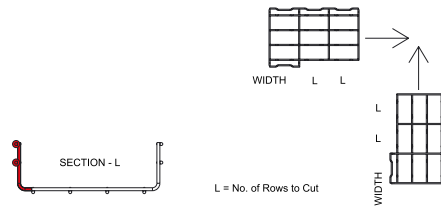
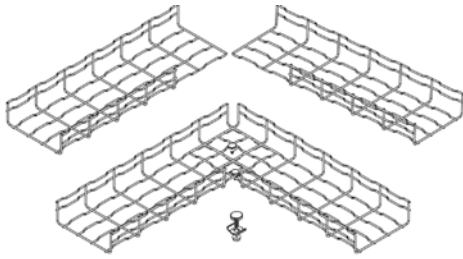
The below drawings show in red the section cuts that are needed for the bends, tees and changing levels as explained in the Installation section on pages 291-292.



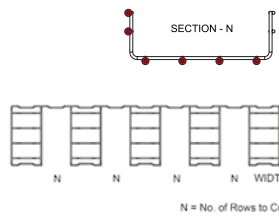
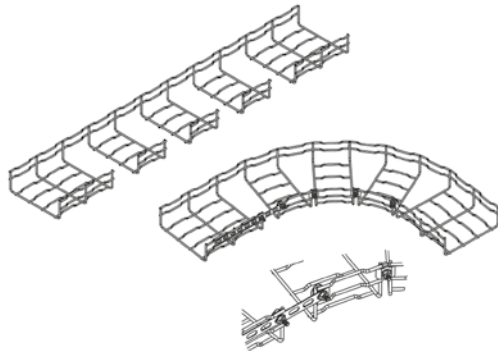
Installation

The following drawings show in red the sections that should be removed to make the associated join or bend.

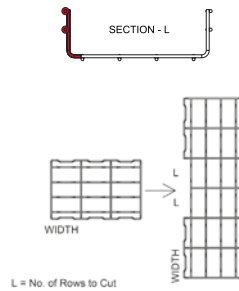
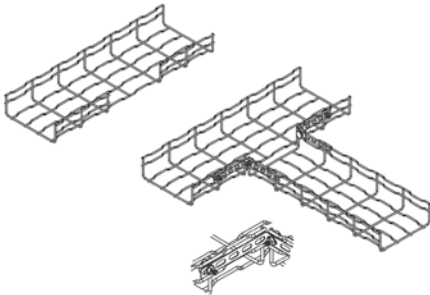
Horizontal bend from two straight sections



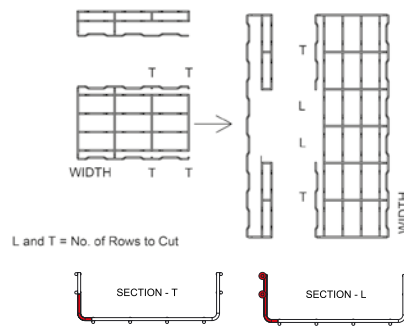
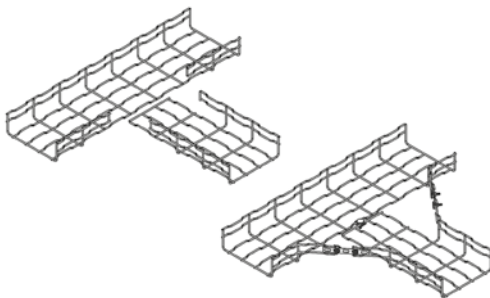
Horizontal bends long radius – right angle



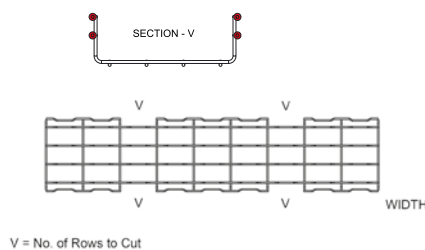
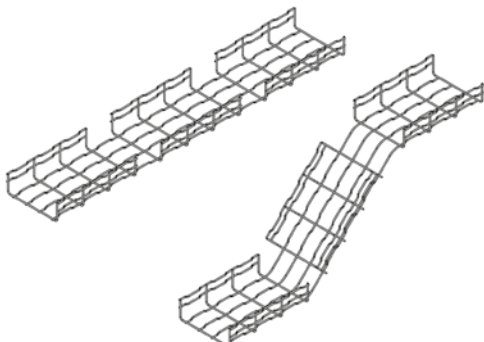
Horizontal tees



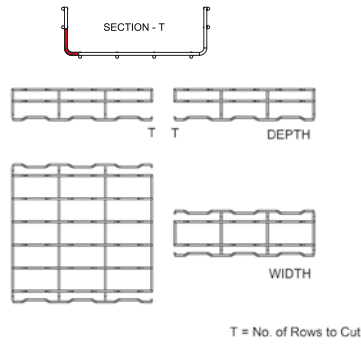
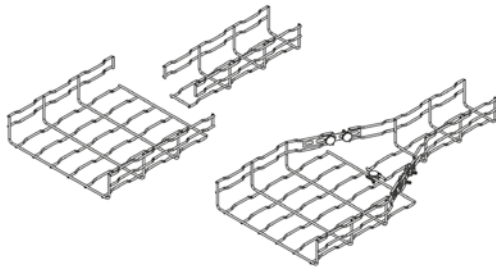
Tee with large radius



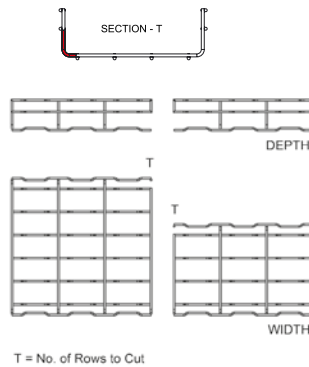
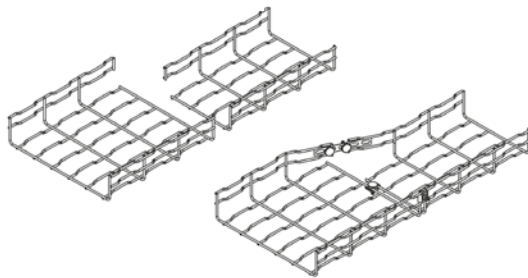
Vertical inside and outside bends



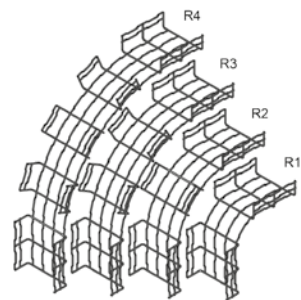
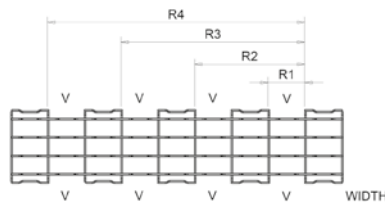
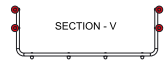
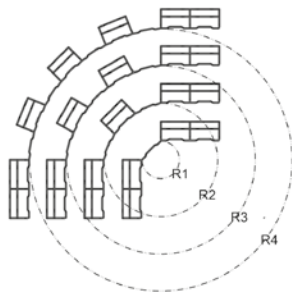
Reducers straight



Reducers left or right



Vertical bends



Radius	Radius diameter	Number of rows that will need to be cut
R1	64mm	1 row
R2	190mm	2 rows
R3	320mm	3 rows
R4	445mm	4 rows

Bio trunking

General information

Certain microbial organisms are harmful to people and can proliferate, via surfaces, to spread infection and disease. We have a responsibility to control such organisms wherever possible, particularly in environments such as hospitals, care homes, medical units, surgeries, schools, sports and health centres.

Microbial organisms can also cause product deterioration, discolouration and bad odours and antimicrobial treatments help to prevent these effects.

Marshall-Tufflex antimicrobial Bio trunking incorporates silver ions with the PVC-U compound, providing integral antimicrobial protection that prevents 99.9% of harmful bacteria growth.

Material – PVC-U

PVC-U is flame retardant and self-extinguishing. It is a 100% recyclable material. It complies with the requirements of BS 4761 Parts 6 and 7 and BS 7671:2018.

Material – silver ion additive

Silver ions have been proven to exert recognised bactericidal effect. When incorporated within materials such as PVC-U, silver is toxic to multiple components of bacterial cell metabolism, damaging the cell wall and membrane permeability.

PVC Material Test Results

LABORATORY Anti-Microbial Test Division, Kyoto Biseibutsu Kenkyusyo, Yamashina-ku, Kyoto 607-8482, Japan
TEST ORGANISM MRSA (Methicillin Resistant Staphylococcus aureus) Escherichia coli
STANDARD ISO 22196 / JIS Z 2801:2000

Quantitative Assessment of Activity - MRSA (Methicillin Resistant Staphylococcus aureus)				
	Number of live organisms (Colony Forming Units)		% reduction of Colony Forming Units, expressed as comparison with control	
	0 hours	24 Hours		
Control - Untreated polyethylene film	110,000	96,000	–	–
PVC	110,000	<10	>99.98% Reduction	VERY GOOD

Quantitative Assessment of Activity - Escherichia coli				
	Number of live organisms (Colony Forming Units)		% reduction of Colony Forming Units, expressed as comparison with control	
	0 hours	24 Hours		
Control - Untreated polyethylene film	110,000	14,000,000	–	–
PVC	110,000	<10	>99.99992% Reduction	EXCELLENT

ABS Material Test Results

LABORATORY Thomson Research Associates Inc., Ontario, Canada
TEST ORGANISM Klebsiella pneumonia, Staphylococcus aureus
STANDARD ISO 22196 / JIS Z 2801:2000

Quantitative Assessment of Activity - K. pneumoniae				
Concentration of starting inoculum		1.92 x 10 ⁵		
Sample Description	No. Bacteria Recovered	Log Value	R=[log(B/C)]	% Reduction
Inoculum Control	8.39 x 10 ⁶	6.9	–	–
ABS	<2.00 x 10 ¹	<1.3	>5.6	>99.9%

Quantitative Assessment of Activity - S. aureus				
Concentration of starting inoculum		1.92 x 10 ⁵		
Sample Description	No. Bacteria Recovered	Log Value	R=[log(B/C)]	% Reduction
Inoculum Control	1.00 x 10 ⁶	6.0	–	–
ABS	1.04 x 10 ²	2.0	4.0	>99.9%



WE ARE DRIVING...

For all PVC-U products installed in buildings to be manufactured using 50% recycled material by 2028.



PRODUCT INDEX AND GENERAL INFORMATION

Health and Safety at work

Health and Safety at work etc. Act 1974

- Section 6 of this act imposes on all manufacturers, designers, importers or suppliers of articles for use at work a duty to ensure, so far as is reasonably practicable, that the article is so designed and constructed that it will be safe and without risks to health at all times when it is being set, used, cleaned or maintained by a person at work. Part 1 of the Consumer Protection Act 1987 introduces strict liability for defects in products. In considering whether a product is defective, consideration has to be given to any instructions issued with the products. It is therefore essential that the purchasers ensure that any relevant information or advice relating to the use of the product is strictly complied with.
- Having regard to these provisions the following is given as a guide to the information which is readily available to you in order that the obligations of all concerned may be met as fully as is reasonably practicable. This information relates to those products detailed in our Catalogue(s) or associated literature.
- Information on the design, construction and installation of our products may be found in catalogues and product leaflets of this Company, or may be obtained by specific request to the Company.
- It is important that the products concerned should be installed, commissioned and maintained by, or under supervision of competent persons in accordance with:
 - BS7671 IEE Regulations for the Electrical Equipment of Buildings
 - Codes of Practice
 - Statutory requirements
 - Any instruction specifically advised by the Company The Purchaser must satisfy himself that he has complied with such requirements.

- In accordance with the provisions of the Act you are therefore requested to take such steps as are necessary to ensure that any appropriate information relevant to our products is made available by you to anyone concerned.

Low Voltage Directive

Marshall-Tufflex products that come within the scope of the Low Voltage Directive (LVD) will be CE Marked to confirm that they meet the necessary requirements of this directive.

Product colour

The colour of products shown in this catalogue are representative only.

Please note: due to different processes and materials utilised, it may not always be possible to obtain an exact colour match between the extruded and moulded product.

Unexposed parts

Unexposed parts may not always be supplied in the colours depicted in this catalogue. This will not detract in any way from the finished look of the product.

Conditions of Sale

All products are sold subject to C & C Marshall Limited Conditions of Sale (as amended from time to time), who are the principals of Marshall-Tufflex Ltd, their selling Agents, and to such other Conditions of Sale as are contained in our current price list. Copies of these Conditions of Sale are available on request.

In pursuance of our policy of continued product improvement Marshall-Tufflex reserves the right to change the design, specification or pack quantities of its products without notification.

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DM6008	n/a	203	ECP2MWH	17%	69, 73	EFT10WH	4%	55
DM6009	n/a	203	ECP3ASG	n/a	157, 159	EFT1ASG	n/a	157, 159
DM6010	n/a	203	ECP3AWH	n/a	157	EFT1AWH	n/a	157
DM6012	n/a	204	ECP3WH	0%	70, 73	EFT1MBCH	0%	69
DM6013	n/a	204	ECP4WH	0%	75	EFT1MBWH	0%	69, 73
DM6014	n/a	204	EDF1	100%	58, 60, 62, 64, 76, 189	EFT1MCH	0%	69
DM6015	n/a	204	EDF2	100%	56, 76, 155	EFT1MWH	0%	69, 73
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DM6023	n/a	204	EEC211WH	0%	94, 96	EFT301SG	n/a	171, 173
DM6024	n/a	204	EEC212LHWH	0%	94, 96	EFT3ASG	n/a	157, 159
DM6025	n/a	204	EEC212RHWH	0%	94, 96	EFT3AWH	n/a	157
DM6027	n/a	204	EEC301SG	n/a	171, 173	EFT3WH	64%	70, 73
DM6028	n/a	204	EEC302LHSG	n/a	171, 173	EFT60WH	n/a	87
DM6029	n/a	204	EEC302RHSG	n/a	171, 173	EFTA60SG	n/a	168
DM6030	n/a	204	EEC60SG	n/a	167	EFTC1DLWH	3%	65
DM8301	n/a	205	EEC60WH	n/a	86	EFTC1DRWH	3%	65
DM8302	n/a	205	EECC1LHWH	0%	59, 65	EFTC1ULWH	3%	65
DM8303	n/a	205	EECC1RHWH	0%	59, 65	EFTC1URWH	3%	65
DM8502	n/a	205	EECC2LHWH	0%	61, 65	EFTC2DLWH	3%	65
			EECC2RHWH	0%	61, 65	EFTC2DRWH	3%	65
			EECC3LHWH	0%	63, 65	EFTC2ULWH	3%	65
			EECC3RHWH	0%	63, 65	EFTC2URWH	3%	65
			EECHP3WH	0%	70, 73	EFTC3WH	4%	63, 65
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			EELP1MAWH	n/a	157	EIB201WH	0%	90, 92
			EELP1MCH	0%	69	EIB202WH	0%	90, 92
			EELP1MWH	6%	69, 73	EIB20WH	0%	57
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			EELP2MALHWH	n/a	157	EIB212WH	0%	94, 96
			EELP2MARHSG	n/a	157, 159	EIB301SG	n/a	171, 173
			EELP2MARHWH	n/a	157	EIB302SG	n/a	171, 173
			EELP2MLHWH	25%	69, 73	EIB60SG	n/a	167
			EELP2MRHWH	19%	69, 73	EIB60WH	n/a	86
			EELP3ASG	n/a	157, 159	EIBC1WH	0%	59, 65
			EELP3AWH	n/a	157	EIBC2WH	0%	61, 65
			EELP3WH	0%	70, 73	EIBC3WH	0%	63, 65
			EELP4LHWH	0%	75	EIBC60SG	n/a	167
			EELP4RHWH	0%	75	EIBCD1WH	0%	65
			EFA10WH	0%	55	EIBCD2WH	0%	65
			EFA1ASG	n/a	157, 159	EIBCD3WH	0%	65
			EFA1AWH	n/a	157	EIBD1WH	0%	69, 73
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			EFA1MBWH	0%	69, 73	EIBD3WH	0%	70, 73
			EFA1MCH	0%	69	EIBD4WH	0%	75
			EFA1MWH	0%	69, 73	EIBHP3WH	0%	70, 73
			EFA201WH	70%	90, 92	EIBP1MASG	n/a	157, 159
			EFA202DWH	69%	90, 92	EIBP1MAWH	n/a	157
			EFA202UWH	68%	90, 92	EIBP1MCH	0%	69
			EFA20SBWH	23%	57	EIBP1MWH	0%	69, 73
			EFA20WH	88%	57	EIBP2MASG	n/a	157, 159
			EFA211WH	57%	94, 96	EIBP2MAWH	n/a	157
			EFA212DWH	57%	94, 96	EIBP2MWH	25%	69, 73
			EFA212UWH	55%	94, 96	EIBP3ASG	n/a	157, 159
			EFA2DASG	n/a	157, 159	EIBP3AWH	n/a	157
			EFA2DAWH	n/a	157	EIBP3WH	0%	70, 73
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			EFA3AWH	n/a	157	ELIBD1WH	0%	69, 73
			EFA3WH	62%	70, 73	ELIBD2WH	0%	69, 73
			EFA4DWH	60%	75	ELIBD3WH	0%	70, 73
			EFA4UWH	54%	75	ELIBD4WH	0%	75
			EFA60SG	n/a	168	ELSC200WH	31%	89, 92, 93, 96
			EFA60WH	n/a	87	ELSC300SG	n/a	170, 173
			EFAC1DWH	3%	59, 65	ELTB200	100%	89, 92, 93, 96
			EFAC1UWH	3%	59, 65	ELTB300	n/a	170, 173
			EFAC2DWH	3%	61, 65	EM116WH	0%	122
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						EM526WH	0%	189

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EAB1WH	0%	56, 58, 60, 62, 64, 67, 71, 76, 78, 87, 91, 95, 116, 123, 189
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EAB2WH	0%	56, 58, 60, 62, 64, 67, 71, 76, 78, 87, 91, 95, 116, 123
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EC201WH	0%	90, 92
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ECC1WH	0%	59, 65
ECC21WH	100%	130
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ECC2WH	0%	61, 65
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ECHP3WH	0%	70, 73
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ES3BU	18%	54	ETOP180WH	0%	124
ES3CH	17%	54	ETOP20WH	0%	124
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ESF1	n/a	60, 62, 64, 71, 76, 78	ETOP30WH	0%	124
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ESPM1CH	0%	54	EXB202WH	0%	90, 92
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ETAC1CSWH	0%	71	FCKCMMT2	n/a	141
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Perimeter and containment trunking by size

A quick reference guide to finding information on trunking, shown in size order from small to large.

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Please see page 5 for more details

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In pursuance of our policy of continued product improvement Marshall-Tufflex reserve the right to change the design or specification of its products without notification.

