

Uniclass L746/7471
CI/SfB (62) X

Marshall-Tufflex

Cable management catalogue



	<h3>An introduction to Marshall-Tufflex</h3> <p>An introduction to the cable management catalogue, our customer service promise and the benefits of working with Marshall-Tufflex.</p>	Page 4
	<h3>Specialised applications</h3> <p>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.</p>	Page 7
	<h3>MT32 Prefabricated and modular wiring</h3> <p>A range of project specified, pre-wired, plug and play, power distribution systems from main distribution board to final circuit. Range includes: Home runs from the main distribution board; Lighting systems; Perimeter systems; Dry lining systems; Surface mount systems.</p>	Page 15
	<h3>Underfloor to desk solutions</h3> <p>A range of products that provide complete power and data solutions from under the floor up to the desk. Range includes: Series 507 powertrack; 507 Raised floor boxes and grommets; 507 In-screed systems; MT32 Pre-wired underfloor distribution; SnakeWay wire support system; Desk modules.</p>	Page 23
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PVC-U Domestic and general trunking

Page 145

A range of general trunking options for domestic and commercial installation.

Range includes: Angled cableway; Bench trunking; Clear trunking; Cornice trunking; Maxi trunking; Mini trunking; Sceptre trunking; Sovereign Plus trunking.



Conduit systems

Page 167

A full range of PVC-U conduit and fittings.

EMC and LSOH options.

Range includes: PVC-U round and oval conduit and fittings; Corrugated conduit; MT Supertube.



Accessory boxes and enclosures

Page 177

A full range of boxes and enclosures manufactured in high impact PVC-U.

Range includes: Surface boxes; Dry Lining boxes; Circular dry lining boxes; Moulded enclosures; Acoustic hoods; MT32 Pre-wired, modular dry lining and surface mount accessories.



GRP Ladder, tray and SnakeWay

Page 183

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

Range includes: GRP Ladder; GRP Tray; GRP Troughing; SnakeWay wire support systems.



Laboratory and healthcare solutions

Page 203

Specialist products for the healthcare environment.

Range includes: Bio Trunking Solutions with antimicrobial properties; Bedhead service units; Task lighting; Bench trunking in PVC-U and aluminium; Ceiling and suspended service units.



Fire and security containment systems

Page 213

Products designed specifically to meet fire and security wiring regulations.

Range includes: Callmaster (red trunking and boxes); MT Supertube FR Plus LSOH conduit with compliance to the EMI (Electromagnetic Interference) Directive and LUL Engineering Standard; Fire barrier pads; Clear cable trunking.



TuffMaster IP rated enclosed sockets

Page 219

A range of metal clad wiring accessories and IP rated enclosed switches and sockets designed for water, dust and chemical resistance.

Range includes: IP56; IP55; IP54; Metal clad & polycarbonate wiring accessories.



Technical information

Page 225

Product technical information, dimensions, capacities and installation information.



Product index and general information

Page 297

Index by product, Index by size, Index by part number
Health and safety at work; Low voltage directive;
Product colour; Unexposed parts; Conditions of sale.

Dear customers, clients and colleagues!

As always, we have given a great deal of thought to making our catalogue simple to use and as easy as possible to find your way around. It has been designed to be informative too, and to provide you with the information you need in a market that is more demanding than ever.

Peace of mind is what it's really all about and it's worth taking a look at some of the real benefits Marshall-Tufflex can offer you:

- We're the cable management market leader and have a reputation for manufacturing and supplying quality products.
- We recognise that time on site costs you money, so our innovative product development team insist on product designs that help you achieve your targets within budget.
- Our product ranges meet the latest cabling standards and accommodate all building designs and construction parameters.
- We have a total commitment to the highest manufacturing standards.
- You can have confidence in our environmental integrity and performance.
- We're always on hand to help with full technical and customer service support.
- Our Specialised Applications team can produce bespoke solutions to help with all your installation challenges.
- You can rely on consistently high levels of service and delivery.
- Excellent product availability with extensive stockholdings at our warehouses and through a large network of national and independent wholesalers.
- The confidence of working with a customer-focused, family-owned company.

The way we look at it, working with Marshall-Tufflex is a long term partnership in which our highest priority is to build your confidence in us. It is as important to us as it is to you that you receive the products, the service and the delivery you want, when you want it.

And we're pleased to offer you something that money can't buy - well over 60 years' of expertise and valuable experience.



Jim Fletcher
Managing Director

Cable management solutions

Marshall-Tufflex manufactures and supplies a comprehensive range of cable management and prefabricated wiring solutions for commercial, industrial, healthcare, education and domestic markets.

Highest quality products

We pride ourselves in offering durable and reliable products of the highest quality. These include prefabricated wiring systems, trunking systems in PVC-U, steel and aluminium, trunking with inherent antimicrobial properties, GRP tray and ladder systems, power and data distribution systems from under the floor all the way to the desk, PowerPoles and Posts and options for LSOH, Cat 6, Part M, EMC and EMI compliancy. All these products meet the highest technical standards and we specialise in creating bespoke solutions specifically to meet your individual requirements.

Excellent customer service

Our network of sales engineers supported by our Customer Service team provide technical and practical assistance and access to stock availability, lead times and delivery schedules.

Our Customer Services team can be contacted on +44 (0) 1424 856600.

Technical support

The members of our Technical Team are experienced electricians and electrical engineers who can advise on a wide range of solutions and technical issues, such as the latest wiring regulations, product standards, EMI shielding, data cabling control and Parts L and M compliancy.

Our Technical Team can be contacted on +44 (0) 1424 856688.

New product innovation

To meet the demands of continuing change and improvement in the building industry in relation to installation practices, standards and building designs, we are constantly pioneering new products that are sustainable, environmentally friendly and can reduce installation times.

Products in stock

Marshall-Tufflex products are available throughout the UK via a large network of national and independent wholesalers. Our international distributors also maintain a range of products for their customers locally.

Middle East factory

To sustain our global enterprise, and to support the high demand from the Middle East, we have a factory in the UAE which is designed to hold stock specifically to service the GCC (Gulf Co-operative Council) region.



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 with **Cat 6** cabling or above.



Indicates that a system can be manufactured with **antimicrobial** properties.



Environmental

Marshall-Tufflex actively pursues a comprehensive programme to develop formulations based on environmentally acceptable materials, whilst still maintaining and, where possible, improving on long-term performance properties.

Vinyl 2020

The company is dedicated to meeting the requirements of Vinyl 2010 and its ongoing programme til 2020 of Voluntary Commitment to the European Commission.



Recycling

Marshall-Tufflex is active in and financially supports various industry bodies in driving the industry in the use and control of PVC-based materials, with the aim of increasing awareness and use of recycled material. We also recycle paper, cardboard, polythene, wood, metal, print cartridges and aluminium cans.



Certificate No. Q05393
Registration
BS EN ISO 9001:2008

Quality Management Systems

Marshall-Tufflex is totally committed to quality and customer satisfaction and the company is recognised by the British Standards Institution as a firm of Assessed Capability to BS EN ISO 9001:2008.



Certificate No. EMS 539245
Registration
BS EN ISO 14001:2004

Environmental Management Systems

Marshall-Tufflex is totally committed to achieving high environmental standards and is recognised by the British Standards Institution as a firm of Assessed Capability to BS EN ISO 14001:2004.



Carbon assessment

The Carbon Trust was set up by the Government in 2001 as an independent company.

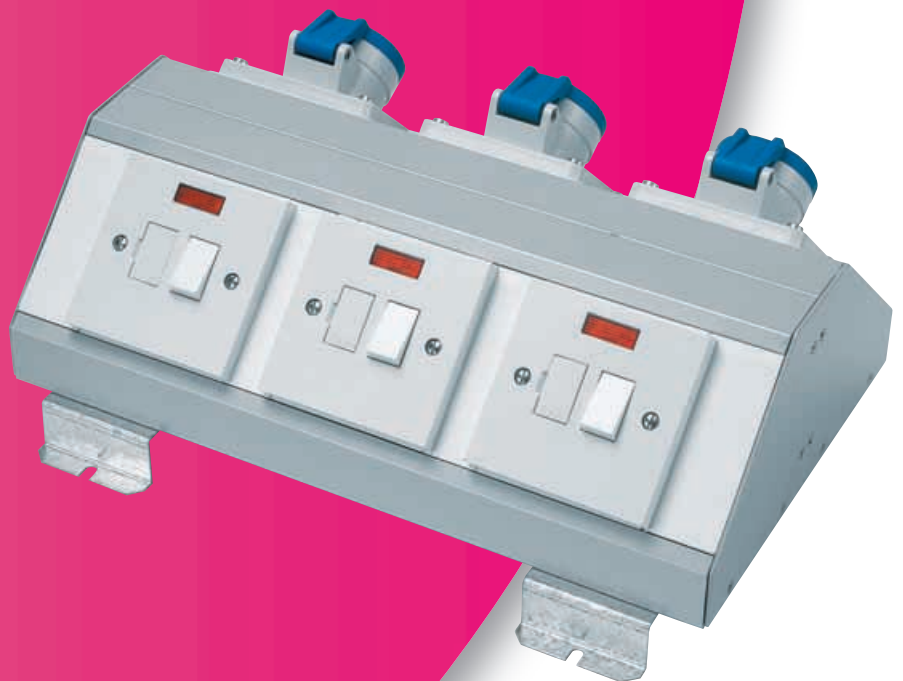
Their mission is to accelerate the move to a low carbon economy by working with organisations to reduce carbon emissions and develop commercial low carbon technologies.

Marshall-Tufflex was assessed by the Carbon Trust in 2007 and received an excellent report.

Specialised applications

www.marshall-tufflex.com

Marshall-Tufflex's Specialised Application 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.



Heathrow Airport Terminal 5

Product: Stainless steel floor boxes

Heathrow

The Heathrow Airport T5 project required bespoke stainless steel floor boxes delivering access to data and power supply systems vital for the safe and effective running of the airport and visually compatible with the floor finishes of the terminal building.

Several hundred of these access units were built to sit flush with the floor and designed to comply with Health and Safety legislation for pedestrian traffic.



Working closely with SPIE Matthew Hall and BAA, Marshall-Tufflex collaborated to produce rectangular, round and square floor boxes in various sizes. Many of the boxes have lockable lids and all are fabricated in heavy duty stainless steel to take higher point load than standard floor boxes, enabling them to cope with wheeled traffic and protect the cables within. The boxes accommodate CAT 6 cabling with provision for CAT 7 and CAT 7a systems.

BBC

Product: Power distribution units

BBC

The BBC's massive project of redevelopment to Broadcasting House in central London houses 5,000 people, delivering news nationally and globally as well as national radio and music services, creating one of the largest live newsrooms in the world and using the latest broadcast technology.

The project utilises Marshall-Tufflex's MT32 prefabricated wiring system, eliminating hard-wiring on site and permitting much faster installation times. It is delivered to site in cable management 'bays' complete with pre-wired cable sets marked with circuitry and ready to feed into distribution boards.

The system is installed into the initial fit-out of the Central Apparatus Area and Local Apparatus Rooms throughout the new 12-storey building, including three basement levels.



The 'bays' are installed above ceiling height and constructed from a combination of Marshall-Tufflex's PVC-U Maxi Trunking and Mono 10 with specialised Cee-Norm sockets. The complexity of the vast amounts of circuitry has necessitated the building of extra large containment units with the necessary headroom – some as much as 18 metres long with a 150mm x 150mm high containment capacity. A large number of sockets and cables in relatively short spaces have also been addressed by this cable management solution.

"We met what was a complex and very quick programme on time. The standard of Marshall-Tufflex's pre-manufactured units was good and helped us to reach timescales when under pressure."

Phoenix Electrical Co Ltd

Marks & Spencer

Product: Universal charging racks

M&S

The requirement to streamline the re-charging of Marks & Spencer's staff communication handsets in stores throughout the UK, involved the development of a wall-mounted system that delivers power to a large number of chargers.

The customised system not only allows M&S staff to locate handsets in the charging rack quickly and easily, it also eradicates unsightly and potentially hazardous wires and leads.



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.

Series 2 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."



Freeman Hospital

Product: MT32 Home run

Milton Keynes-based contractor, Hobbs Electrical, used Marshall-Tufflex's MT32 Prefabricated modular wiring system home run for the fit-out of a new modular build operating theatre at the Freeman Hospital in Newcastle.

The MT32 home run takes power distribution and lighting systems from the hospital's distribution boards to a mastering unit in a local position in the new theatre.

The pre-wired, pre-tested home run is supplied with 9 circuits for power and light. It can also accommodate up to 10 circuits with a maximum of 32 cores and can be configured for any combination of power and lighting and for conductor sizes from 1.5mm² to 10mm².

The MT32 home run distributes power from the main board and is simply bolted into place and connected up via a male HARTING plug, which makes the connection from the distribution board to the home run and into the theatre's mastering unit, from where MT32's 32Amp underfloor distribution system takes power out to all areas of the new operating theatre.



"We wanted a plug-in power connection system because they are far quicker to install and can be disassembled when the building is decommissioned. We have been really impressed with MT32 and now plan to use it across most, if not all, of our contracts".

Hobbs Electrical Services

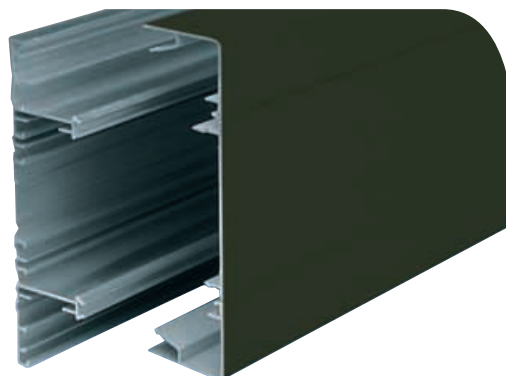
Birmingham University

Product: Sterling Profile 3003 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 3003 feeds power and data at dado height around the laboratories and has also been installed on overhead canopies sited above work benches.



St Aloysius College, Highgate

Product: MT32 and specially curved Odyssey trunking

Marshall-Tufflex provided an MT32 prefabricated modular perimeter wiring system and Cat 6 compliant Odyssey trunking in specially curved lengths to allow for fixing to the corresponding architecturally curved walls of the library building.

MT32 and Odyssey trunking provided economic and fast-fit installations at St Aloysius College, Highgate, one of eight secondary schools to undergo complete rebuilding or substantial refurbishment within Islington's Building Schools for the Future (BSF) initiative.

Balfour Beatty Engineering Services selected Marshall-Tufflex's MT32 contained within Odyssey's contemporary curved dado trunking system and Tom Counihan, electrical engineer for BBES, explained why:



"We compared plug and play systems but liked the fact that MT32 is extremely neat and provides significant installation time reductions. Odyssey appealed because it is CAT 6 compliant, easy to install and because it is the most aesthetically pleasing of the containment systems we have looked at – and we have looked at quite a few! The client is happy with it and we are happy with it. As a result of the effectiveness of both systems, we are taking them through other schools within the BSF initiative."

Balfour Beatty Engineering Services

Pre-formed trunking



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

Series 2 PowerPost suspended



Ceiling-mounted units supplying various services are available as fixed items or hinged to allow for unobtrusive 'parking'.

Lighting kits

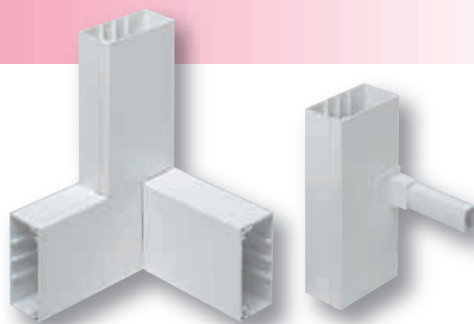


Lighting Kits are available and can be incorporated within a selection of PVC-U trunking.



Combination bend

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



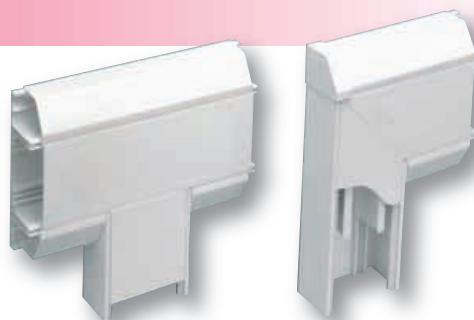
PVC Trunking reducer

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



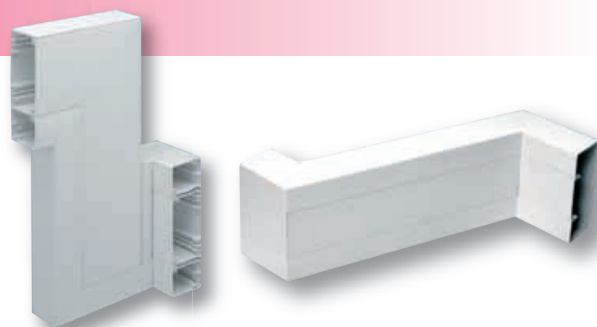
Fabricated connections

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



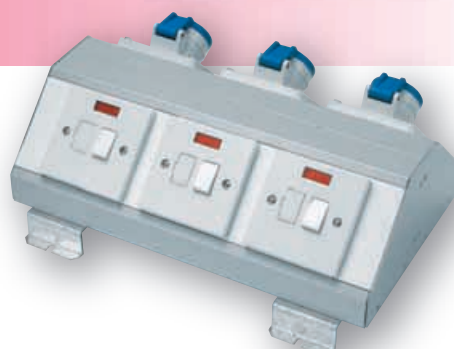
Profile sets

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



Multi-service pods

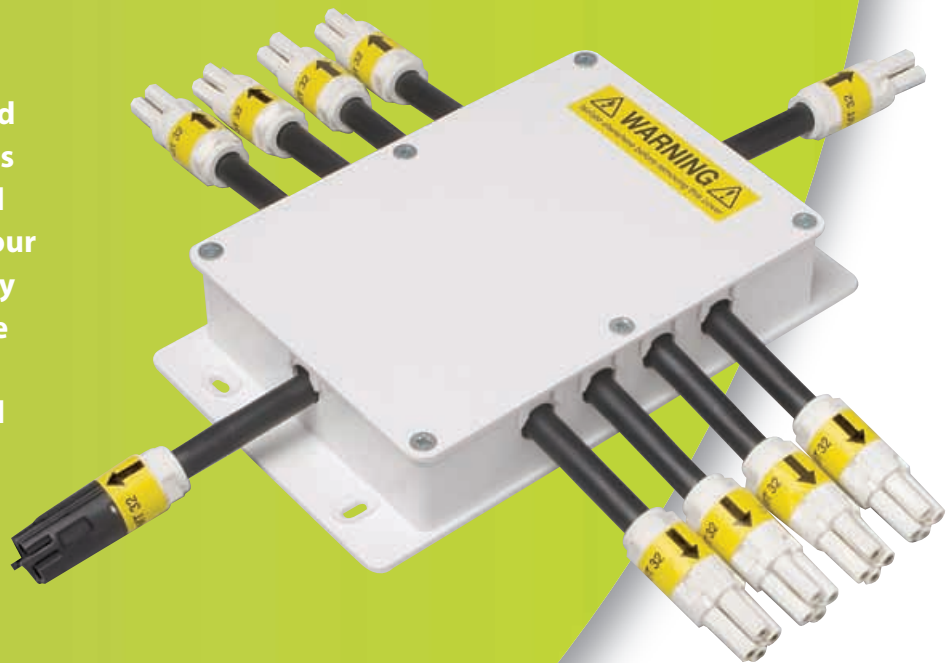
IEC 60309 industrial sockets on back to back aluminium bench trunking with 25mm raised brackets to raise units above any floor level water collection.



MT32 Prefabricated and modular wiring systems

www.marshall-tufflex.com

MT32 Prefabricated and modular wiring systems are designed to take all the hard work out of your electrical installation by providing the complete pre-wired, pre-tested, plug and play electrical wiring system for your project.



MT32 Prefabricated and modular wiring systems

Marshall-Tufflex MT32 Prefabricated and modular wiring systems are complete, project specific, pre-wired, pre-tested wiring distribution systems and accessories, supplied to site for plug and play installation. These systems provide fast, safe, labour and cost saving installations and re-configuration and comply with British Standards 8488-1-2009 for prefabricated wiring systems intended for permanent connection in fixed installation.



Environmental

- There are well established facilities available for recycling the individual components of MT32 Prefabricated wiring systems.



Recycling and sustainability

- MT32 Prefabricated and modular wiring systems are completely re-usable. All major components can be disassembled and reconfigured for use elsewhere as required.



EMC properties

- As a power distribution system, the requirement of shielding from electromagnetic interference is not applicable.



Fire performance

- MT32 Prefabricated and modular wiring systems use LSOH cables and, where applicable, are encased in flexible steel conduit.
- Marshall-Tufflex recommends that dry lining boxes should be fitted with intumescent fire barrier pads to meet requirements of BS7671 2008 IEE Wiring Regulations and Document B of the UK Building Regulations.

MT32 Prefabricated and modular wiring solutions incorporate the unique Marshall-Tufflex compact 32Amp connector and provide customers with a complete inter-connection electrical installation package built to their own specification. Depending upon client and project requirements, a system may incorporate all or just a selection of the available range of pre-wired, interconnecting power distribution and accessory components.

MT32 Home runs

Self-contained pre-wired distribution units

MT32 Home runs provide single run multi-pin connection from the main distribution board to localised distribution points. One single unit can replace standard high level trunking and multi cable runs.



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MT32 Lighting hubs

Self-contained, pre-wired, plug-in lighting supply and switching units

MT32 Lighting hubs are built to specification to provide various and multiple switching configurations. They can be installed as an independent method of supplying an area with lighting circuits or as part of the total power distribution system.



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MT32 Dry lining systems

Pre-wired accessory modules with interconnecting leads

MT32 Dry lining systems provide fast and easy connection from the distribution board to the final power outlet installation in stud walls.



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MT32 Surface mount systems

Pre-wired, fast-fix, accessory modules with interconnecting leads

MT32 Surface mount systems provide plug and play connection from the distribution board to the surface accessory. Surface mount systems are compatible with mini trunking.



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MT32 Perimeter trunking systems

Pre-wired, interconnecting, modular wiring accessories and cables

MT32 Perimeter flex systems provide fast-fit wiring installation within dado and skirting perimeter trunking.



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22

Underfloor systems

For MT32 pre-wired modular underfloor wiring systems, please refer to the Underfloor and Desk section on page 23 or call the Technical Team on 01424 856688.

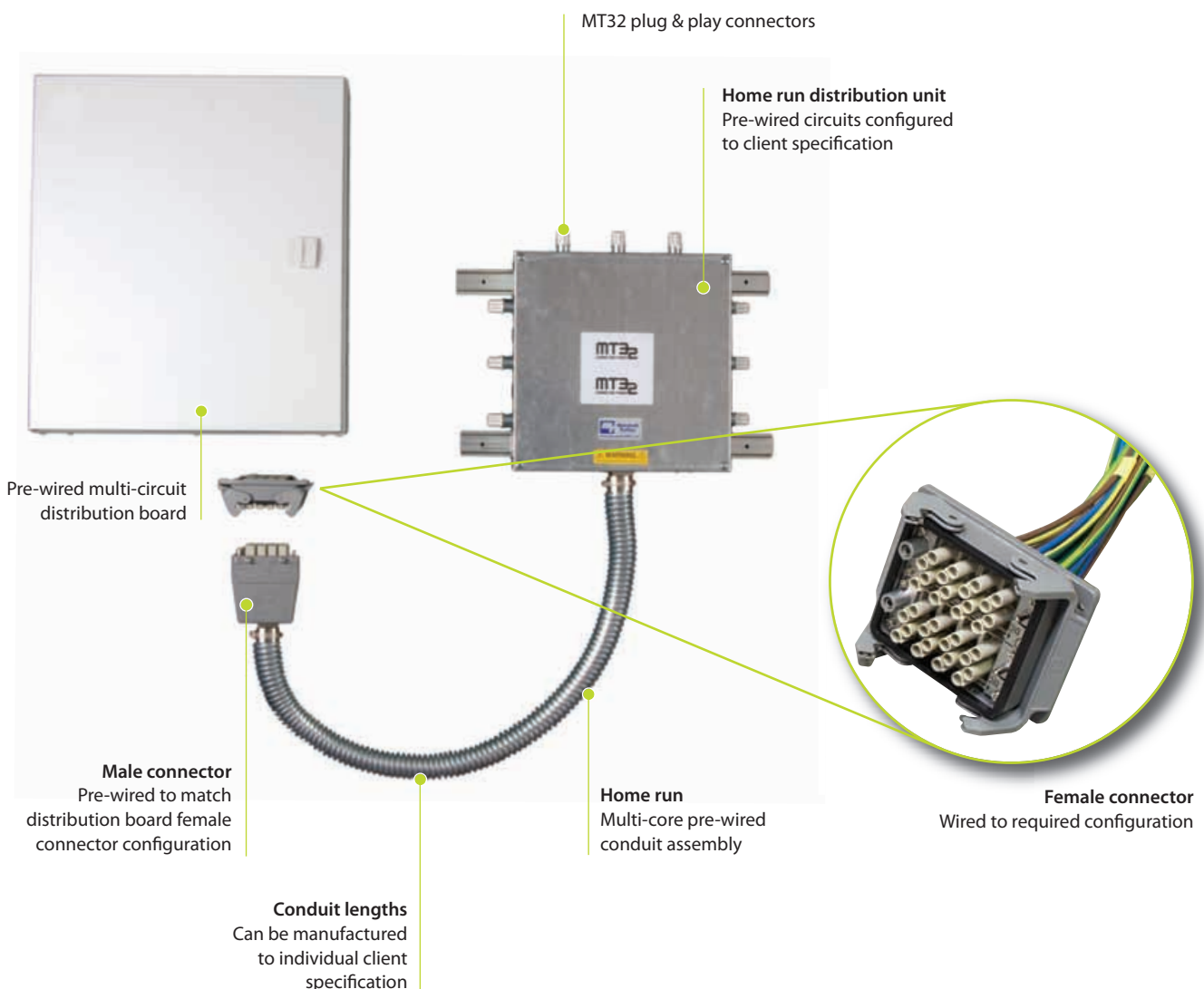
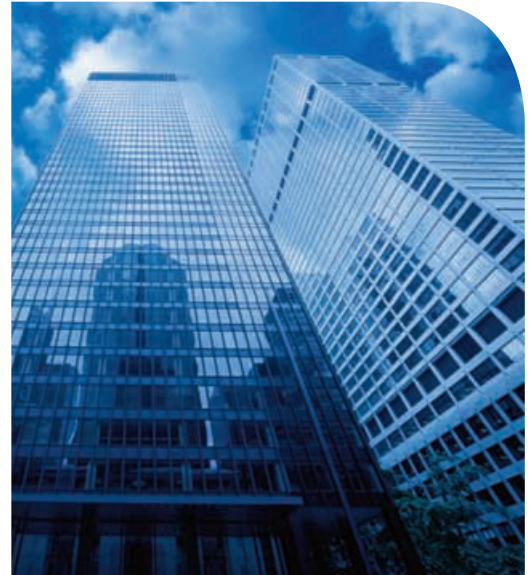


MT32 Home runs are self contained, pre-wired and tested 380/450v power distribution systems, assembled and wired to customer specification. They can be installed as an independent method of supplying an area with lighting and power circuits or as part of a total power distribution system.

Installation:

MT32 Home runs can be installed as an independent method of supplying an area with lighting and power circuits or as part of the total power distribution system.

- Connection to the distribution board is via multi-pin connectors
- Can contain up to 32 cable cores to feed power distribution and lighting systems
- Conductor sizes range from 1.5mm² to 10.0mm² depending on the solution required
- Different cable sizes can be incorporated within the same Home Run
- No need to cut and install cable trays and trunkings
- Zero harm – no cutting required on site
- Reduced health & safety risk
- Zero waste on site
- Helps reduce LTIs (Lost Time Injuries) on site
- Sustainable and re-usable

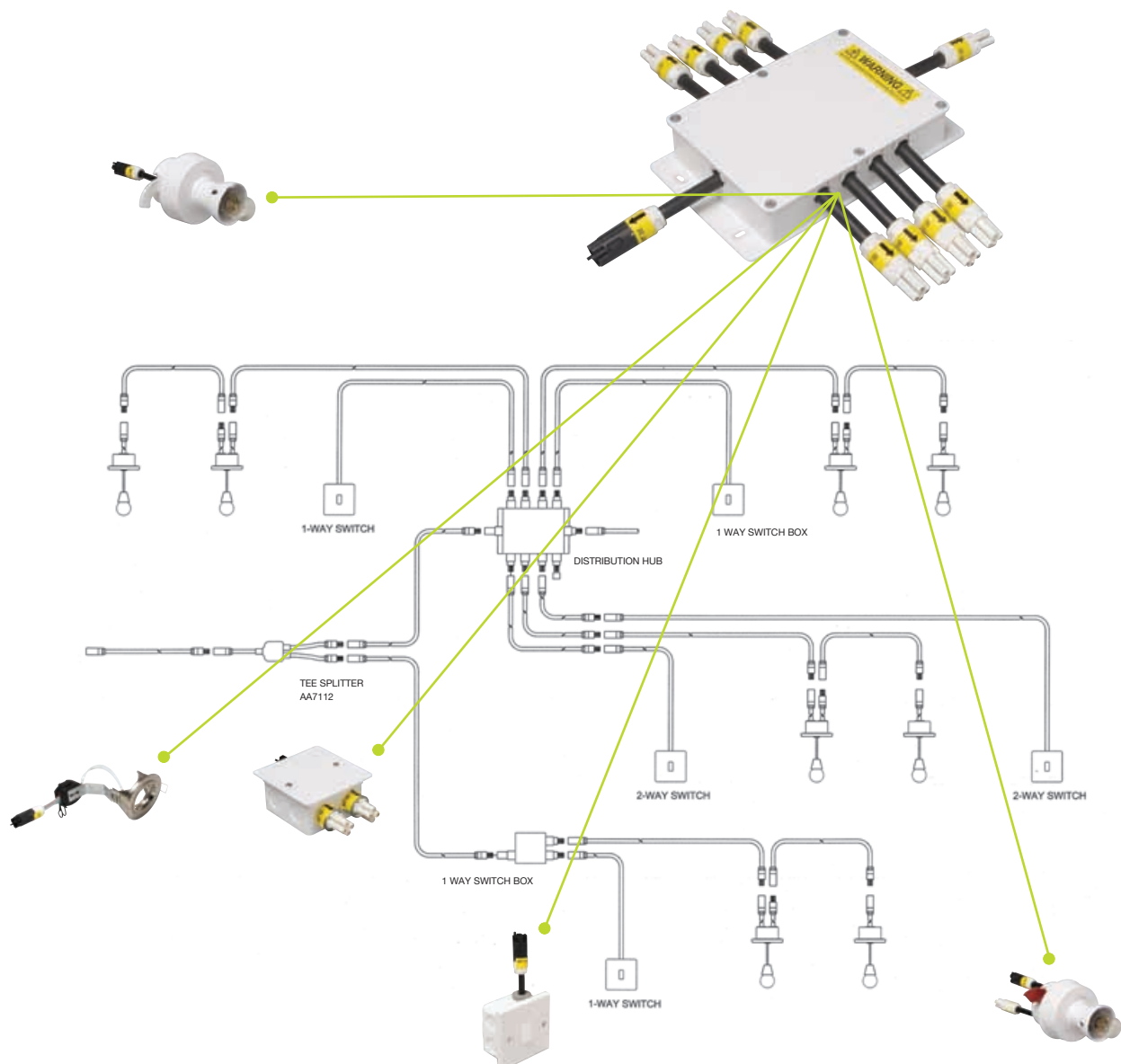
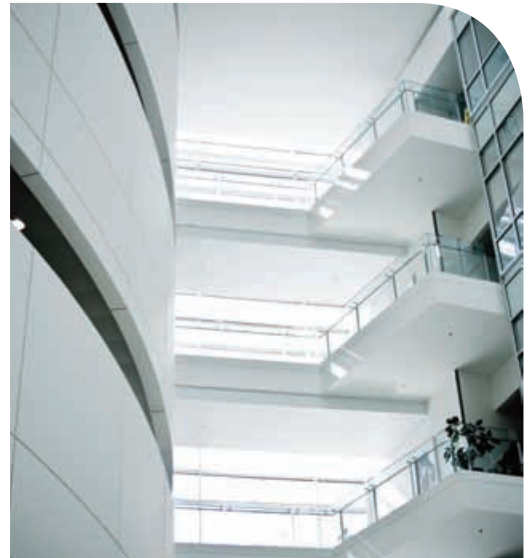


MT32 Lighting hubs are assembled pre-wired and tested, plug-in connector units to provide various switching configurations to client's requirements, such as 1-way, 2-way, intermediate and emergency key switching. MT32 Lighting hubs can also be wired to presence or motion detectors to provide energy efficiency savings.

Installation:

MT32 Lighting hubs can be installed as an independent means of supplying local lighting and switching arrangements. The hub can be connected directly to the distribution board as a stand alone circuit or it can be connected to a circuit supplied as part of a MT32 Home Run.

- Ready for on-site plug and play assembly
- Can be sub-divided into individual circuits
- Provides for switching, emergency lighting and connection to local light fittings
- Zero harm – no cutting required on site
- Reduced health & safety risk
- Zero waste on site
- Additional Hubs can be inter-connected to provide further circuits
- Helps reduce LTIs (Lost Time Injuries) on site
- Sustainable and re-usable



Home runs

Home runs can provide an independent method of power supply or part of a total power distribution system.

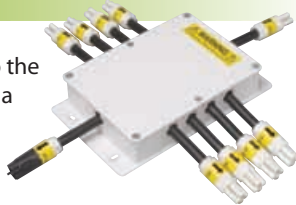
(For more information please refer to page 18 of this section)



Lighting hubs

Lighting hubs can be directly connected to the distribution board as a stand alone circuit or may be connected to a home run.

(For more information please refer to page 19 of this section)



MT32 Dry lining systems

Dry lining boxes can be installed independently or in conjunction with other systems with circuits supplied directly from the distribution board or from a local home run.

(For more information please refer to page 181 of Accessory boxes and enclosures)



MT32 Surface mount systems

Surface mount systems can be installed independently or as part of a Flat Pack Kit and are used where the installation of dry lining boxes is not suitable.

(For more information please refer to page 179 of Accessory boxes and enclosures)



MT32 Perimeter trunking systems

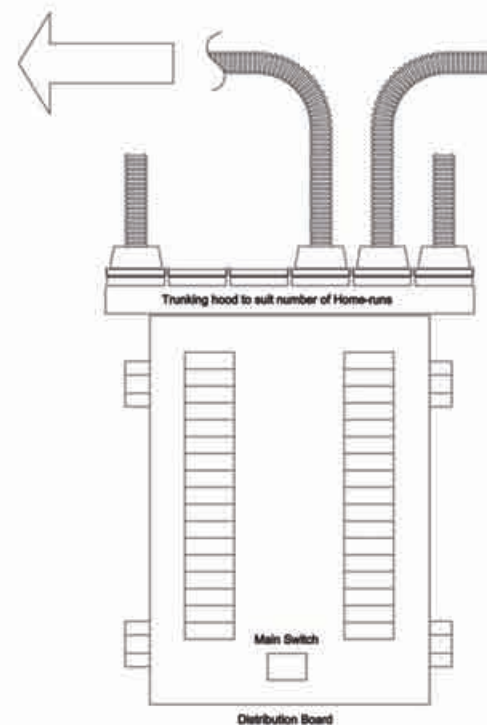
The perimeter system's cables and accessories arrive on site in pre-specified lengths complete with connectors and ready for installation.

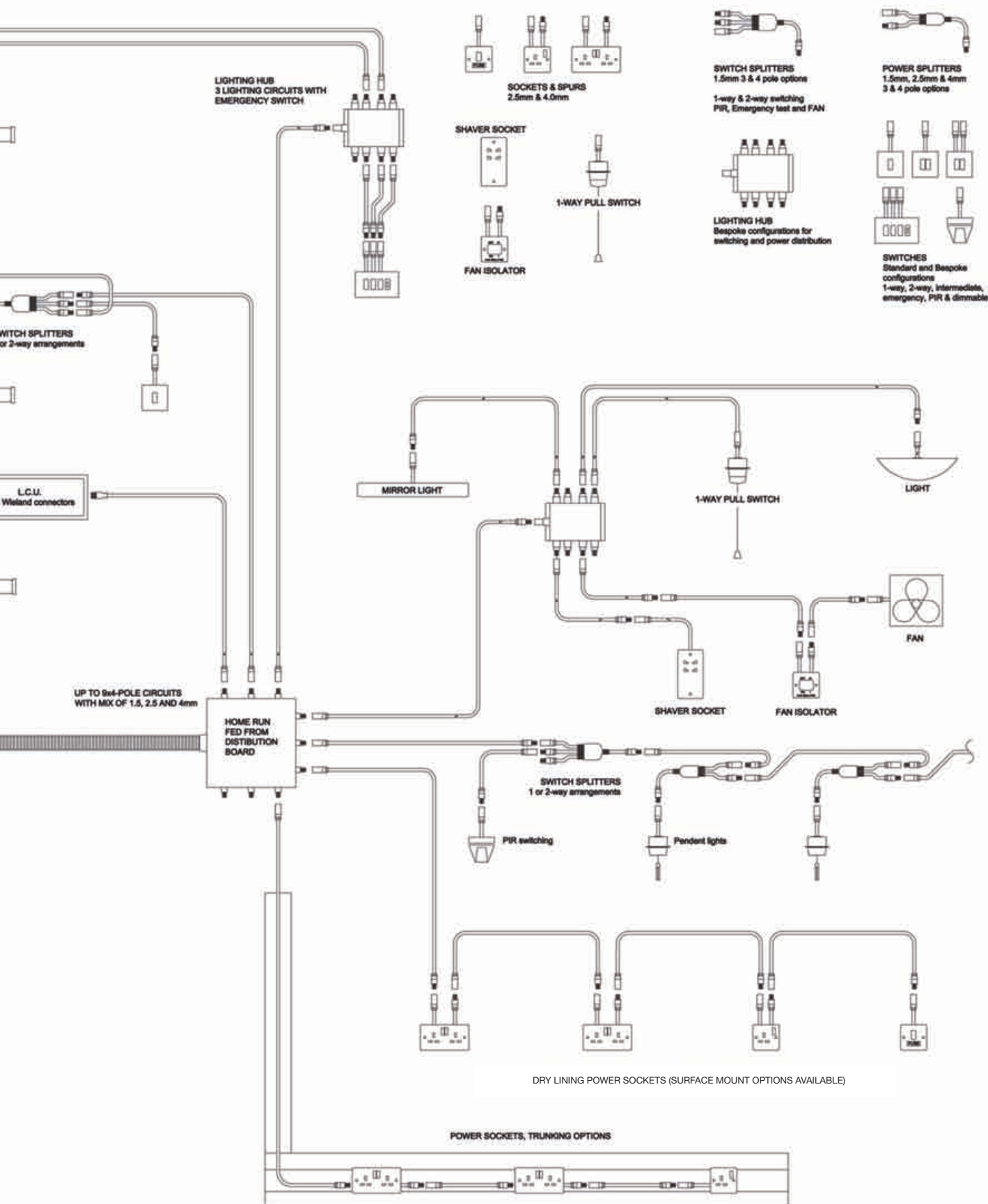
(For more information please refer to page 106 of PVC-U Perimeter trunking systems)



CAN FEED TO UNDER FLOOR SYSTEM

Please refer to Underfloor and desk section, page 23.





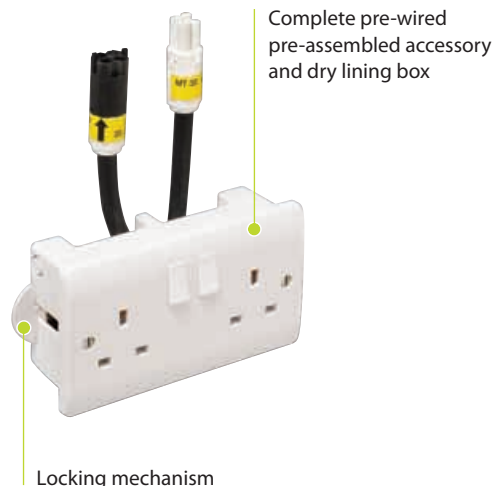
MT32 Dry lining systems

Installation:

Dry lining accessory assemblies can be installed in partition walls as part of a modular wiring system or they can form part of another installation system. The dry lining system can also be part of a pre-specified room kit.

- Fully tested and assembled with accessory face plate and MT32 connectors attached
- Through and terminal assemblies available
- Boxes feature a wide securing flange around the outer rim to assist in alignment and positioning
- Unique locking mechanism grips the dry wall board firmly and securely locates box and accessory plate in position
- 1 and 2 gang boxes available to fit apertures of 73 x 73mm and 135 x 73mm
- Fitted with LSOH 2.5mm² flextails
- For 4.0mm² cable please call the Technical Team on 01424 856688
- Fire barrier pads can be fitted to meet the requirements of UK Building Regulations
- Acoustic hoods can be fitted to meet the requirements of UK Building Regulations
- Zero harm – no cutting required on site
- Reduced health & safety risk
- Zero waste on site
- Helps reduce LTIs (Lost Time Injuries) on site
- Sustainable and re-usable
- Easy installation and fast connection

For more information please refer to page 181 of Accessory boxes and enclosures



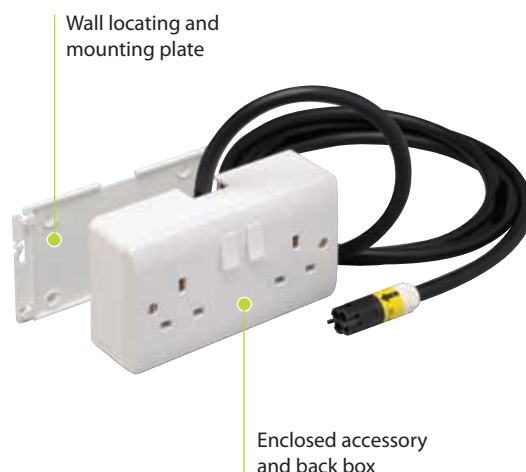
MT32 Surface mount systems

Installation:

Surface mount systems provide for connection of pre-wired accessories and can also be part of a pre-specified room kit.

- Fully tested and assembled with accessory plate and MT32 connectors attached
- 1 and 2 gang boxes with 2 metres of LSOH 2.5mm² flex fitted and MT32 connectors attached
- For 4.0mm² cable please call the Technical Team on 01424 856688
- Through and terminal assemblies available
- Fixing plate easily positioned and independent of electrical assembly
- Fire barrier pads can be fitted to meet the requirements of UK Building Regulations
- Zero harm – no cutting required on site
- Reduced health & safety risk
- Zero waste on site
- Can be used in conjunction with MT Mini Trunking
- Helps reduce LTIs (Lost Time Injuries) on site
- Sustainable and re-usable
- Easy installation and fast connection

For more information please refer to page 179 of Accessory boxes and enclosures



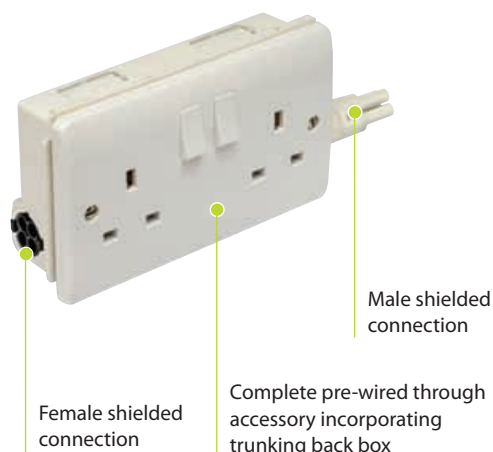
MT32 Perimeter trunking systems

Installation:

Pre-wired cables and accessories for installation within perimeter trunking, arrive on site ready for simple plug and play connection, resulting in cost-savings and project programme gains.

- For use with LSOH 2.5mm² flex system
- Available in a 4.0mm² LSOH singles system as an alternative specification that meets the requirement for high integrity earthing
- Circuit testing only required on completion of final layout
- Zero harm – no cutting required on site
- Reduced health & safety risk
- Zero waste on site
- Helps reduce LTIs (Lost Time Injuries) on site
- Sustainable and re-usable
- Easy installation and fast connection

For more information please refer to page 106 of PVC-U Perimeter trunking systems



Underfloor to desk solutions

www.marshall-tufflex.com

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 access 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.

Series 507 Powertrack

Standard and CE (Clean Earth) 32 or 63Amp powertrack.



Page
28

Series 507 Raised floor boxes and grommets

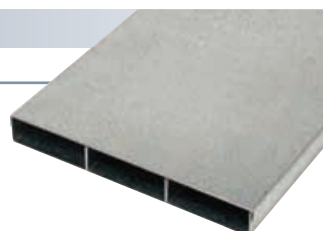
3 and 4 compartment unwired and pre-wired boxes and grommets.



Page
30

Series 507 In-screed system

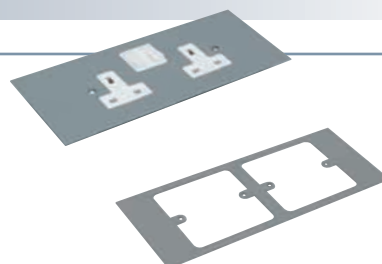
PVC-U or steel ducting with 3 and 4 compartment outlet boxes.



Page
34

Series 507 Faceplates and accessories

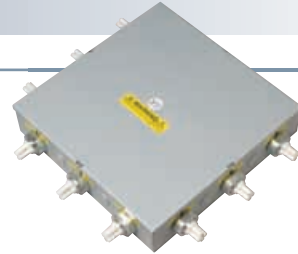
Accessories and accessory mounting plates for raised floor and in-screed floor outlet boxes.



Page
31&35

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
36

Desk modules for office furniture

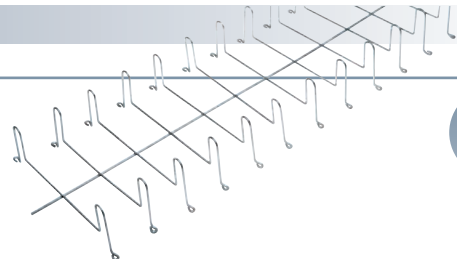
A range of moulded and aluminium pre-wired and assembled power units that can be used singly or linked by plug and play cable connectors.



Page
40

SnakeWay

Self-supporting floor void wire support systems for cabling.



Page
199

PowerPosts

An efficient way of managing services at island locations.



Page
45

Other pre-wired units

For other pre-wired units made to order to suit your specifications, please contact the Technical Team on 01424 856688.



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43

A selection of design layouts incorporating MT32 pre-wired technology and Series 507 powertrack.

Tap-off from floor system to powerpost.

Power to flip up desk unit fed by tap-off from floor system through floor grommet.

Standard or CE supply to 3 and 4 compartment floor box.

MT32 Dry lining socket can be fed from Series 507 floor system or from MT32 system when glass partitions prevents wiring access from above.

Steel Wire Armoured cable (SWA)

MT32 Slave Unit (SU) – a 4-way underfloor distribution unit fed from an MT32 Master Distribution Unit (MDU) and providing power to MT32 floor boxes. (Can also be fed from powertrack.)

SWA

MT32 MDU – a 9-way underfloor distribution unit.

AREA 1 – MARSHALL-TUFFLEX SERIES 507

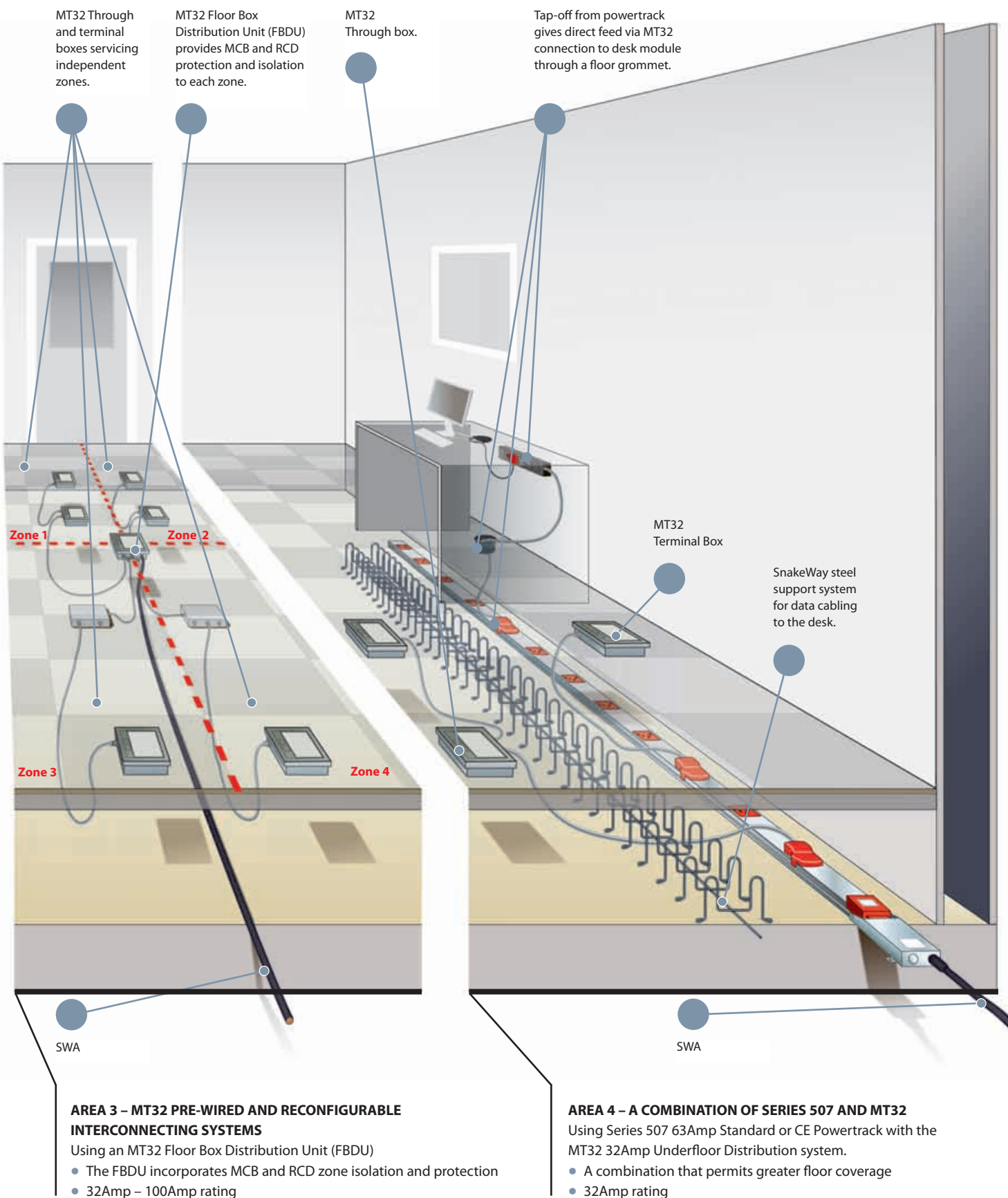
Using traditional powertrack and hard-wired floor boxes

- Standard and Clean Earth (CE) Series 507 Powertrack
- 63Amp rating

AREA 2 – MT32 PRE-WIRED AND RECONFIGURABLE INTERCONNECTING SYSTEMS

Using MT32 Master Distribution Unit (MDU) and Slave Unit (SU)

- Radial or daisy chain options for Standard and CE Systems
- 32Amp rating



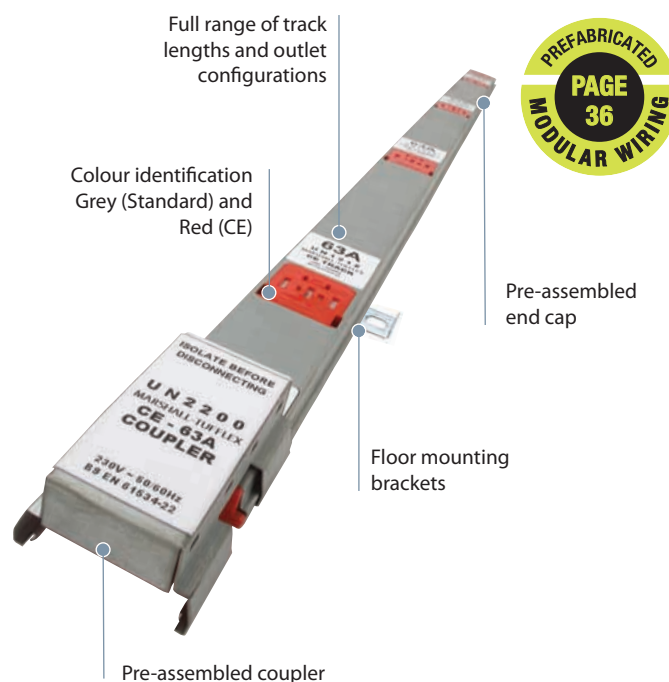
A comprehensive range of underfloor 32 and 63Amp powertrack.

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
- Tap-offs are 32Amp rated
- Adhesive dust covers protect outlets
- Compatible with MT32 pre-wired floor boxes (refer to page 32)

Identification	
Standard	CE
Standard = grey CE (Clean Earth) = red	

For other powertrack options please contact the Technical Team on 01424 856688.



To calculate powertrack lengths required for different floor layouts refer to table on opposite page.

Series 507 Powertrack Standard



code	length	Number of outlets	pitch (mm)	pack
UN1112	1.2m	4	300	1
UN1118	1.8m	6	300	1
UN1114	2.4m	8	300	1
UN1116	3.6m	12	300	1

Standard powertrack with a 150 or 600mm outlet pitch is available but may be subject to lead times. For more information please contact the Technical Team on 01424 856688.

Series 507 Powertrack CE (Clean Earth)



code	length	Number of outlets	pitch (mm)	pack
UN1212	1.2m	4	300	1
UN1218	1.8m	6	300	1
UN1214	2.4m	8	300	1
UN1216	3.6m	12	300	1








CE Powertrack with a 150 or 600mm outlet pitch is available but may be subject to lead times. For more information please contact the Technical Team on 01424 856688.

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	F used 13Amp
Pack 1	Pack 1	Pack 1	Length 3m Pack 1	Length 3m Pack 1	Length 5m Pack 1	Length 5m Pack 1
						
UN3100	UN5102	UN5104	UN7113	UN7123	UN7115	UN7125
UN3200	UN5202	UN5204	UN7213	UN7223	UN7215	UN7225

Other configurations of tap-off units including fuse options are available on request. For more information please contact our Technical Team on 01424 856688.

All tap-off units comply with 17th Edition Wiring Regulations Section 543 (High Integrity Earthing).

Series 507 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
20.4	3.6	3.6	3.6	3.6	3.6	2.4

A range of floor boxes and grommets for raised floor installations

Product information

Floor boxes

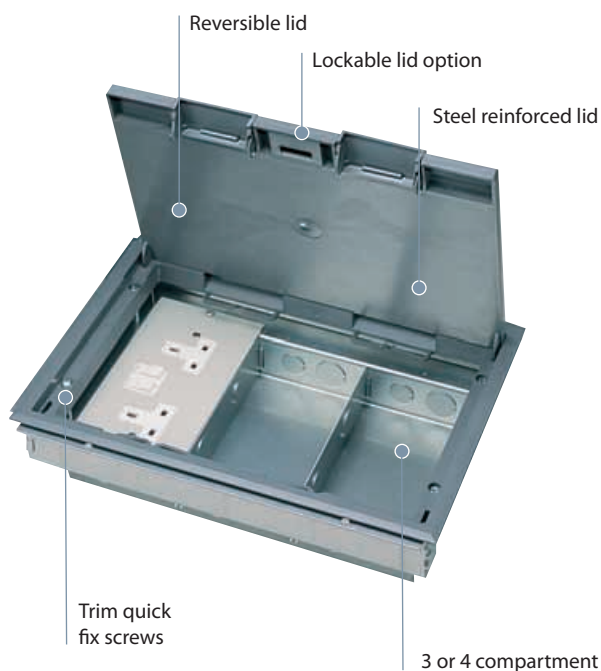
- 3 or 4 compartment
- Standard depth 83mm
- Other box depths available on request
- Grey trim as standard
- Range of power and data accessories
- Accepts carpets or tiles up to 6mm
- Extra deep lids available for other material finishes
- Reversible lids
- Lockable option on request
- Steel load plate withstands working loads to PSA MOBPF2 P5 January 1990 specification for raised floors

Accessory plate dimensions

- 3 compartment 185 x 95mm
- 4 compartment 185 x 71mm

Grommets

- One compartment
- Power grommet available
- Grey trim as standard
- With or without foam insert
- Permits transit of cables and/or flexible conduit from floor to desk



Standard finish
GY
GY: grey

Boxes



3 Compartment floor box
355 x 255 x 83mm

code	description	pack
URF32	incl. 1 x 2GSS0	1
URF32A	Empty	1



4 Compartment floor box
355 x 255 x 83mm

code	description	pack
URF42	incl. 1 x 2GSS0	1
URF42A	Empty	1

Grommets



Grommet
Ø140mm

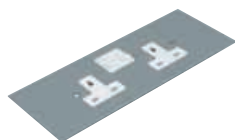
code	description	pack
UTG1	without foam insert	1
UTG2	with foam insert (shown)	1



Power grommet
Ø140mm

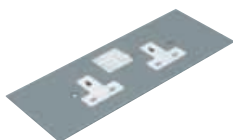
code	description	pack
UPG1	1 x 1 gang frame and lid assembly without foam insert	1
UPG2	1 x 1 gang frame and lid assembly with foam insert (shown)	1

Accessory plates



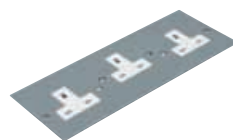
13Amp 2 gang DP/TE switched socket

code	description	pack
UP351	3 comp	1
UP451	4 comp	1



13Amp 2 gang DP/TE switched socket clean earth

code	description	pack
UP353	3 comp	1
UP453	4 comp	1



13Amp 3 x 1 gang unswitched socket

code	description	pack
UP354	3 comp	1

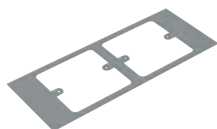


Plate to accept 2 x 1 gang accessory (M3.5 x 60.3mm)

code	description	pack
UP333	3 comp	1

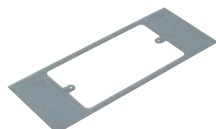


Plate to accept 1 x 2 gang (M3.5 x 120.3mm)

code	description	pack
UP332	3 comp	1

Plate dimensions

3 compartment = 185 x 95mm
4 compartment = 185 x 71mm



Plate to accept 2 x 1 gang accessory (M3.5 x 60.3mm)

code	description	pack
UP433*	4 comp	1

*Accessory overlaps adjacent plates

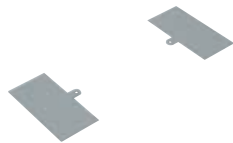
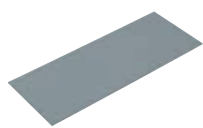


Plate to accept 1 x 2 gang (M3.5 x 120.3mm)

code	description	pack
UP432*	4 comp	1

*Accessory overlaps adjacent plates

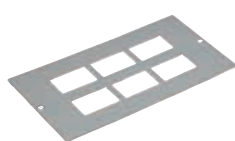


Blank plate

code	description	pack
UP321	3 comp	1
UP421	4 comp	1

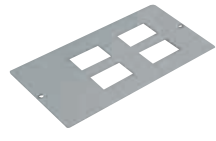
International accessory plates

It is advisable to use MTOP plates for conversion to a range of continental sockets. Please refer to section Power, voice and data accessories on page 143 for more information.



Data/voice plate 6 x RJ45

code	description	pack
UP312	3 comp	1
UP412	4 comp	1



Data/voice plate 4 x RJ45

code	description	pack
UP310	3 comp	1
UP410	4 comp	1

A range of pre-wired floor boxes and grommets for raised floor installations

Product information

- 3 and 4 compartments
- Pre-wired accessory to plug & play MT32 connector
- Standard depth 85mm
- Other box depths available on request
- Standard and bespoke tap-offs available
- Grey trim as standard
- Range of Standard and CE power accessories
- Accepts carpets or tiles up to 6mm
- Extra deep lids available for other material finishes
- Reversible lids
- Lockable option on request
- Steel load plate withstands working loads to PSA MOBPF2 PS January 1990 specification for raised floors

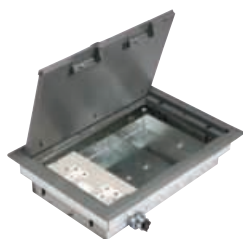
Plate dimensions

- 3 compartment 185 x 95mm
- 4 compartment 185 x 71mm

Standard finish
GY
GY: grey



Boxes



3 compartment floor box 355 x 255 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

4 compartment floor box 355 x 255 x 83mm

code	description	pack
UM5010	1 x 2 gang Std	1
UM5020	2 x 2 gang Std	1
UM5110	1 x 2 gang CE	1
UM5120	2 x 2 gang CE	1

Interconnecting boxes

For pre-wired interconnecting through boxes, please refer to page 36 of this section.

Grommets



Grommet with 1 x 1 gang socket pre-wired to tap-off

code	length	description	pack
UN9113	3m	standard	1
UN9115	5m	standard	1
UN9123	3m	CE	1
UN9125	5m	CE	1

Tap-offs



Tap-off (Standard) to MT32 connector

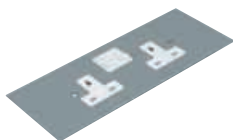
code	length	description	pack
UN8113	3m	32Amp unfused	1
UN8115	5m	32Amp unfused	1
UN8123	3m	13Amp fused	1
UN8125	5m	13Amp fused	1



Tap-off (CE) to MT32 connector

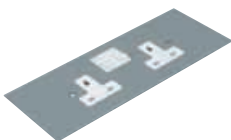
code	length	description	pack
UN8213	3m	32Amp unfused	1
UN8215	5m	32Amp unfused	1
UN8223	3m	13Amp fused	1
UN8225	5m	13Amp fused	1

Accessory plates



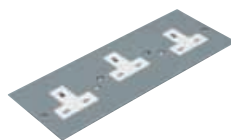
13Amp 2 gang DP/TE
switched socket

code	description	pack
UP351	3 comp	1
UP451	4 comp	1



13Amp 2 gang DP/TE
switched socket
clean earth

code	description	pack
UP353	3 comp	1
UP453	4 comp	1



13Amp 3 x 1 gang
unswitched socket

code	description	pack
UP354	3 comp	1

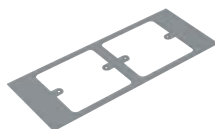


Plate to accept 2 x 1 gang
accessory (M3.5 x 60.3mm)

code	description	pack
UP333	3 comp	1

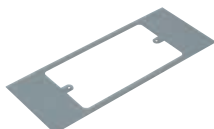


Plate to accept 1 x 2 gang
(M3.5 x 120.3mm)

code	description	pack
UP332	3 comp	1

Plate dimensions

3 compartment = 185 x 95mm
4 compartment = 185 x 71mm



Plate to accept 2 x 1 gang
accessory (M3.5 x 60.3mm)

code	description	pack
UP433*	4 comp	1

*Accessory overlaps adjacent plates

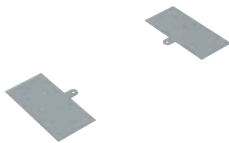
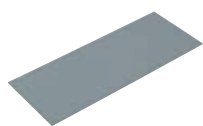


Plate to accept 1 x 2 gang
(M3.5 x 120.3mm)

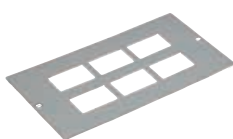
code	description	pack
UP432*	4 comp	1

*Accessory overlaps adjacent plates



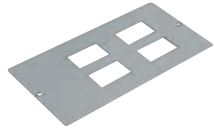
Blank plate

code	description	pack
UP321	3 comp	1
UP421	4 comp	1



Data/voice plate 6 x RJ45

code	description	pack
UP312	3 comp	1
UP412	4 comp	1



Data/voice plate 4 x RJ45

code	description	pack
UP310	3 comp	1
UP410	4 comp	1

International accessory plates

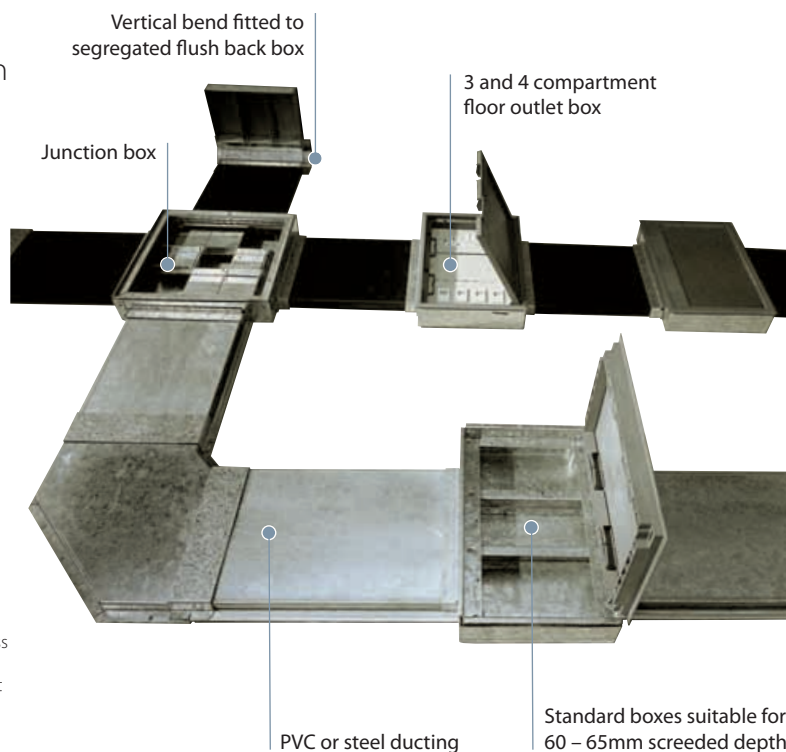
It is advisable to use MTOP plates for conversion to a range of continental sockets. Please refer to section Power, voice and data accessories on page 143 for more information.



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

Product information

- 3 and 4 compartments (boxes come with extra divider to make 4 compartments)
- Suitable for 60-65mm 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

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 01424 856688.

Basic components

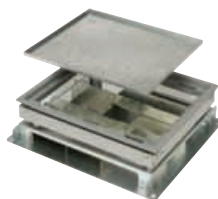


**Floor outlet box
3 and 4 compartment**

code	size	pack
USF32	335 x 265mm	1

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 01424 856688.



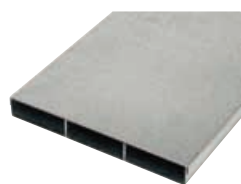
**Universal junction box
(excluding adaptors)**

code	size	pack
USJ3	313 x 313mm	1



**Twin section PVC-U duct
(three ducts required per run)**

code	size	pack
MTU125	75 x 25mm	6 x 3m



3 Compartment steel duct

code	size	pack
USFT25	225 x 25mm	1 x 2.5m



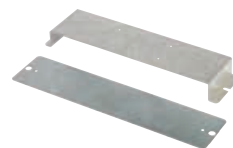
Blank end

code	description	pack
USFB1	3 x 20mm KO	1
USFB25	3 x 25mm KO	1



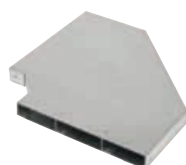
Adaptor

code	pack
USFA1	1



Connector

code	pack
USFC1	1



**Flat bend
(excluding connector)**

code	description	pack
USFF1	steel	1
HFP125	PVC	1



**Vertical bend
(excluding connector)**

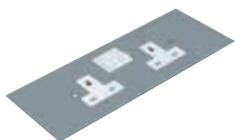
code	description	pack
USFV1	steel	1
HVP125	PVC	1



Steel screeding plate

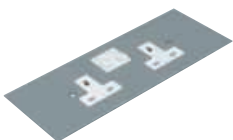
code	pack
USFSP1	1

Note: Used in place of box lid when screeding



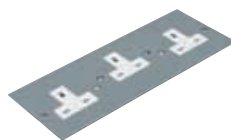
13Amp 2 gang DP/TE
switched socket

code	description	pack
UP351	3 comp	1
UP451	4 comp	1



13Amp 2 gang DP/TE
switched socket
clean earth

code	description	pack
UP353	3 comp	1
UP453	4 comp	1



13Amp 3 x 1 gang
unswitched socket

code	description	pack
UP354	3 comp	1

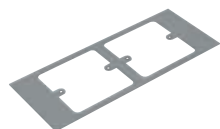


Plate to accept 2 x 1 gang
accessory (M3.5 x 60.3mm)

code	description	pack
UP333	3 comp	1

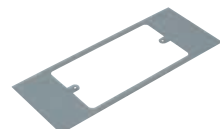


Plate to accept 1 x 2 gang
(M3.5 x 120.3mm)

code	description	pack
UP332	3 comp	1

Plate dimensions

3 compartment = 185 x 95mm
4 compartment = 185 x 71mm



Plate to accept 2 x 1 gang
accessory (M3.5 x 60.3mm)

code	description	pack
UP433*	4 comp	1

*Accessory overlaps adjacent plates

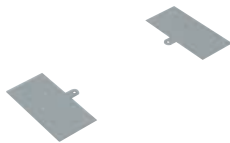
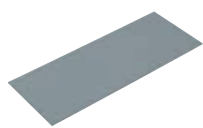


Plate to accept 1 x 2 gang
(M3.5 x 120.3mm)

code	description	pack
UP432*	4 comp	1

*Accessory overlaps adjacent plates

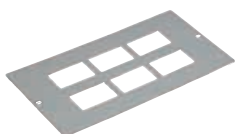


Blank plate

code	description	pack
UP321	3 comp	1
UP421	4 comp	1

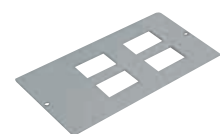
International accessory plates

It is advisable to use MTOP plates for conversion to a range of continental sockets. Please refer to section Power, voice and data accessories on page 143 for more information.



Data/voice plate 6 x RJ45

code	description	pack
UP312	3 comp	1
UP412	4 comp	1



Data/voice plate 4 x RJ45

code	description	pack
UP310	3 comp	1
UP410	4 comp	1

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 powertrack, desk modules and other pre-wired systems to accommodate various underfloor layout options.



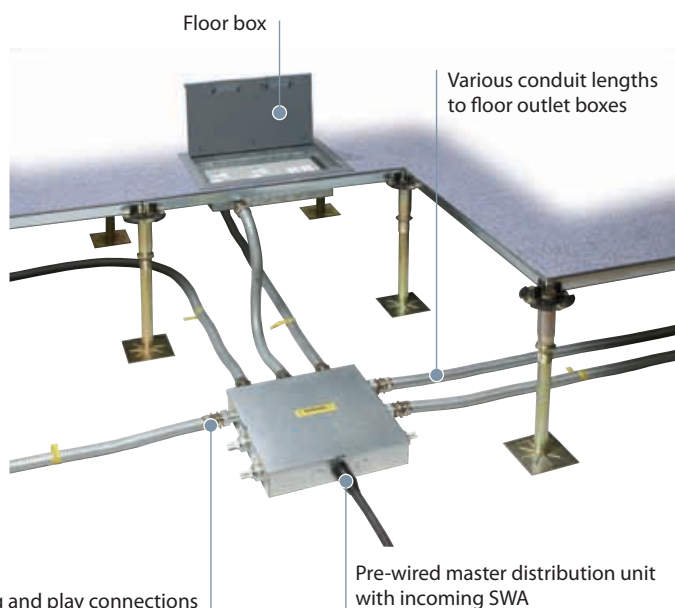
Product information

- Distribution from 32Amp incoming SWA or powertrack supply
- 32Amp power distribution with RCD, RCBO, MCB protection up to 100Amp incoming supply
- Standard and CE systems
- Greater scope in layout design
- Wider range of floor distribution
- Economical and practical for large or high density floor areas
- Designs, dimensions and cable capacities to meet the latest BS EN ISO standards and accommodate all building designs and construction parameters
- For other prefabricated wiring systems please refer to page 15

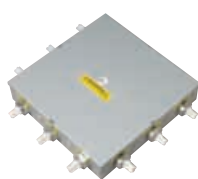
Plate dimensions

- 3 compartment 185 x 95mm
- 4 compartment 185 x 71mm

Standard finish
GY
GY: grey

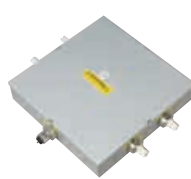


Components



Master distribution unit (MDU)
32Amp rating
260 x 260 x 55mm

code	description	pack
AB6200	9 way Std	1
AB6201	9 way CE	1



Slave unit (SU)
32Amp rating
260 x 260 x 55mm

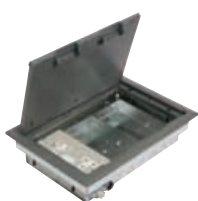
code	description	pack
AB6100	4 way Std	1
AB6101	4 way CE	1



Floor box distribution unit (FBDU)
100Amp rating maximum
355 x 255 x 83mm

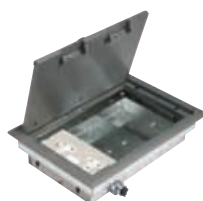
code	description	pack
AB6310	5 way Std	1
AB6320	5 way CE	1

5 x 32Amp RCB outgoing circuits



Floor box - through 3 compartment
355 x 255 x 83mm

code	description	pack
AB5210	1 x 2 gang Std	1
AB6320	2 x 2 gang Std	1
AB5230	3 x 2 gang Std	1
AB5211	1 x 2 gang CE	1
AB5221	2 x 2 gang CE	1
AB5231	3 x 2 gang CE	1



Floor box - terminal 3 compartment
355 x 255 x 83mm

code	description	pack
AB5410	1 x 2 gang Std	1
AB5420	2 x 2 gang Std	1
AB5430	3 x 2 gang Std	1
AB5411	1 x 2 gang CE	1
AB5421	2 x 2 gang CE	1
AB5431	3 x 2 gang CE	1

MT32 Four compartment floor boxes

Terminal: Refer to page 32 of this section
Through: Available – please contact our Technical Team.

MT32 and powertrack

MT32 underfloor products can be used in conjunction with powertrack. For more information please refer to page 39 of this section or call our Technical Team on 01424 856688.



Interconnecting conduit assembly
To MDU, SU, FBDU and floor boxes

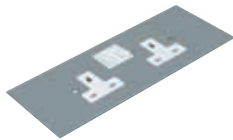
code	length	description	pack
AB3353	3m	Std	1
AB3355	5m	Std	1
AB4453	3m	CE	1
AB4455	5m	CE	1



***Male & female adaptors 220mm tail - fits 20mm knockout**

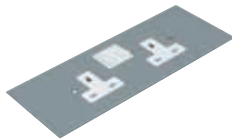
code	description	pack
AB7234	3 pole (male)	1
AB7244	4 pole (male)	1
AB7134	3 pole (female)	1
AB7144	4 pole (female)	1

*For adapting additional equipment and floor boxes to modular system.



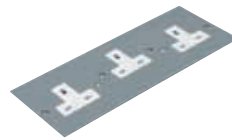
13Amp 2 gang DP/TE
switched socket

code	description	pack
UP351	3 comp	1
UP451	4 comp	1



13Amp 2 gang DP/TE
switched socket
clean earth

code	description	pack
UP353	3 comp	1
UP453	4 comp	1



13Amp 3 x 1 gang
unswitched socket

code	description	pack
UP354	3 comp	1

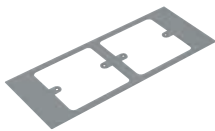


Plate to accept 2 x 1 gang
accessory (M3.5 x 60.3mm)

code	description	pack
UP333	3 comp	1

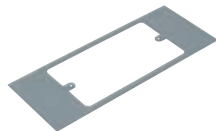


Plate to accept 1 x 2 gang
(M3.5 x 120.3mm)

code	description	pack
UP332	3 comp	1

Plate dimensions

3 compartment = 185 x 95mm
4 compartment = 185 x 71mm



Plate to accept 2 x 1 gang
accessory (M3.5 x 60.3mm)

code	description	pack
UP433*	4 comp	1

*Accessory overlaps adjacent plates

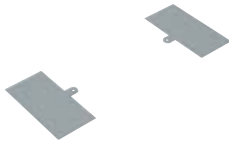
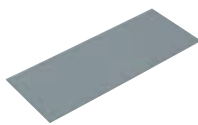


Plate to accept 1 x 2 gang
(M3.5 x 120.3mm)

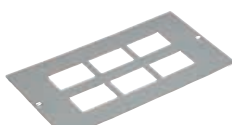
code	description	pack
UP432*	4 comp	1

*Accessory overlaps adjacent plates



Blank plate

code	description	pack
UP321	3 comp	1
UP421	4 comp	1



Data/voice plate 6 x RJ45

code	description	pack
UP312	3 comp	1
UP412	4 comp	1



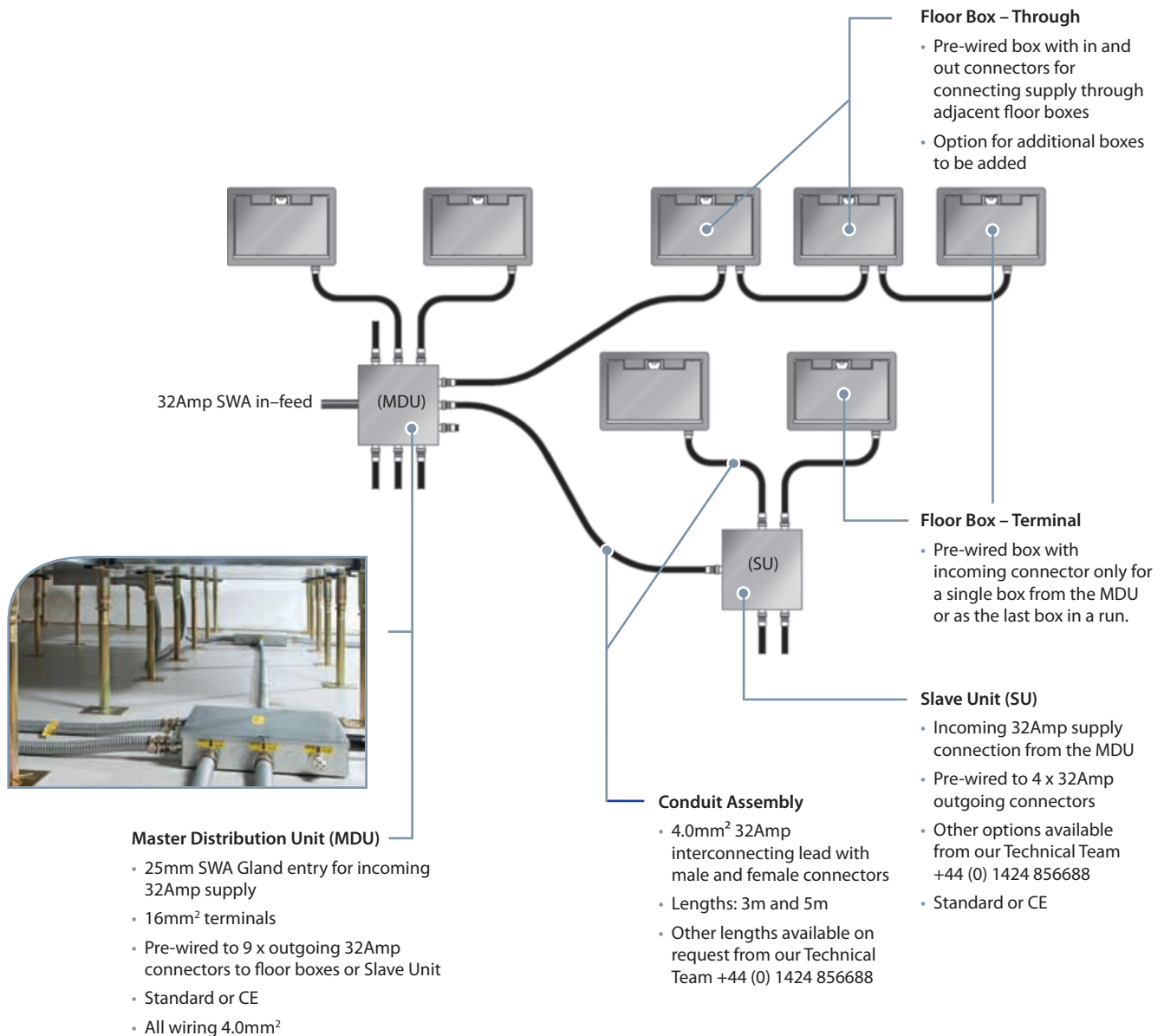
Data/voice plate 4 x RJ45

code	description	pack
UP310	3 comp	1
UP410	4 comp	1

Distribution from a 32Amp direct supply

Product information

- Both terminal and through boxes are available with this system
- Through boxes with in/out connectors allow for an interlinked (daisy-chained) layout
- MT32 can be used in conjunction with underfloor powertrack or with a direct SWA feed from the main distribution board
- Future growth and re-configuration can easily be fulfilled, either by adding additional boxes or by disassembling and re-configuring as required.
- It is possible to achieve a greater coverage area using MT32 through floor boxes with in and out connectors, thereby offering a more versatile alternative to powertrack systems.
- All wiring in single core is 4.0mm²



32Amp power distribution with RCD, RCBO, MCB protection up to 100Amp incoming supply

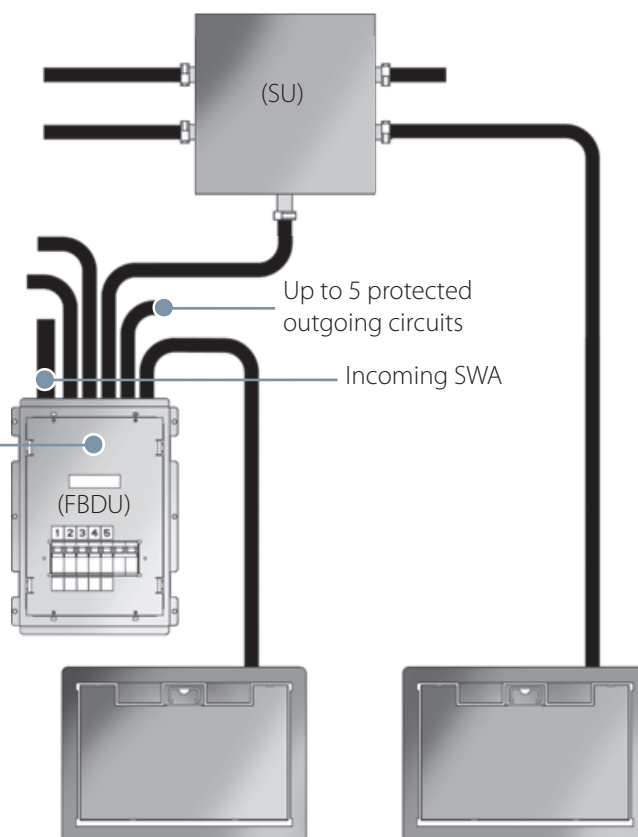
Product information

- Up to 100Amps input and total FBDU load possible
- Up to 5 independent RCBO protected zones each of which can be isolated for maintenance or reconfiguration
- No more need to have fused tap-offs inaccessible below finished floor
- More floor boxes can be supplied by one SWA cable compared with standard powertrack
- Floor boxes can be fitted with 2 x 2 gang 13Amp sockets for circuit supplies above 13Amps without the need to fuse tap-offs

Floor box distribution unit (FBDU)

- FBDU is installed flush in raised floor to provide convenient access
- 25mm SWA gland entry
- Up to 100Amp incoming capacity
- Complete with main switch and RCD
- Other MCB, RCD and RCBO types and ratings on request
- 5 x outgoing 32Amp protected circuits
- Lockable lid on request
- Same dimensions and trims as floor outlet boxes

A typical single 32Amp powertrack run supplies 12 to 16 floor boxes. A single MT32 floor mounted FBDU is able to supply up to 4 times as many floor boxes i.e. up to 50, spread between 5 separate MCB protected circuits. (Calculations based on a load of 2Amps per box).



32Amp distribution supplied by Series 507 powertrack

Product information

- Should Series 507 powertrack be the preferred method of underfloor power supply, then combining powertrack with MT32's interlinked through floor boxes and/or slave units will provide a far greater reach of floor area than can be achieved using powertrack alone

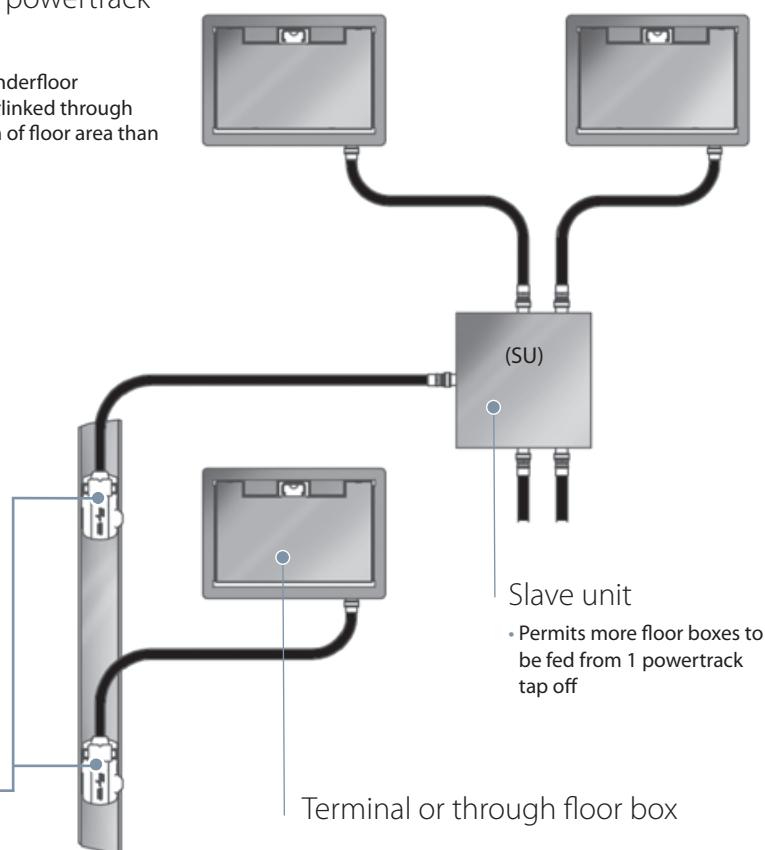
Adaptors

- Male and female can adapt existing or new boxes to MT32



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



Slave unit

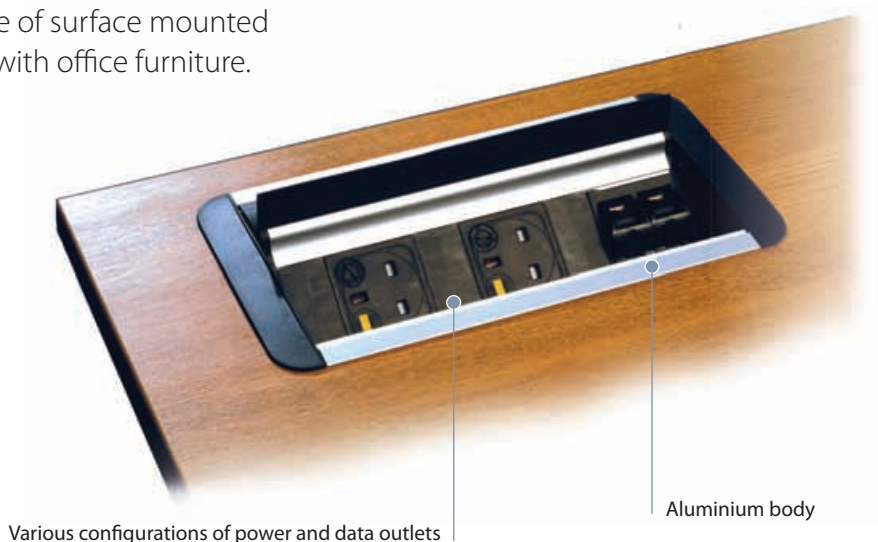
- Permits more floor boxes to be fed from 1 powertrack tap off

Terminal or through floor box

Desk surface units provide a range of surface mounted power and data modules for use with office furniture.

Product information

- Flip up units - flush finish when in use
- Pull up units - fits flush to desk with plugs inserted when not in use
- Surface units - desk mounted
- Desk grommets
- Fed from wall trunking or floor boxes
- Various switching and fusing options available
- Individual 5Amp fuses
- Master switch option
- RCD and MCB protection available



Various configurations of power and data outlets

Surface units



Flip-up unit with master switch and individually fused sockets

code	description	pack
FDMF002	2 gang	1
FDMF007	4 gang	1
FDMF008	5 gang	1



Flip-up unit with master switch, data outlets and individually fused sockets

code	description	pack
FDMF013	2 gang + 1 Cat 6	1
FDMF014	3 gang + 2 Cat 6	1
FDMF015	4 gang + 2 Cat 6	1



Power pull-up unit with master switch and individually fused sockets

code	description	pack
FDMP003	2 gang	1
FDMP005	3 gang	1
FDMP014	2 gang + 2 Cat 6	1



Curved surface unit with master switch and individually fused sockets

code	description	pack
FDMC003	2 gang	1
FDMC005	3 gang	1
FDMC009	4 gang	1
FDMC011	6 gang	1



Curved surface unit with master switch, data outlets and individually fused sockets

code	description	pack
FDMC012	2 gang + 1 Cat 6	1
FDMC013	3 gang + 2 Cat 6	1
FDMC014	4 gang + 3 Cat 6	1
FDMC015	4 gang + 4 Cat 6	1
FDMC016	6 gang + 4 Cat 6	1



Angled surface unit with master switch and individually fused sockets
(Supplied with adhesive pads)

code	description	pack
FDMB003	2 gang	1
FDMB005	3 gang	1
FDMB009	4 gang	1
FDMB010	6 gang	1



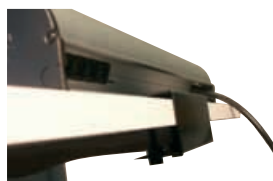
Angled surface unit with master switch, data outlets and individually fused sockets
(Supplied with adhesive pads)

code	description	pack
FDMB012	2 gang + 1 Cat 6	1
FDMB013	3 gang + 2 Cat 6	1
FDMB014	4 gang + 2 Cat 6	1
FDMB015	4 gang + 4 Cat 6	1
FDMB016	6 gang + 4 Cat 6	1



Desk grommet

code	diameter	pack
DG1	92mm	1



Desk clamp
(For use with curved units only)

code	size	pack
DCL1	15-30mm	1
DCL2	25-30mm	1



16Amp interconnecting power cable

*Wieland male/female connectors

code	length	pack
FIL100BK	1m	1
FIL200BK	2m	1
FIL300BK	3m	1



13Amp in-feed power cable

*Wieland connector

code	length	pack
FIC100UBK	1m	1
FIC200UBK	2m	1
FIC300UBK	3m	1

*Only for use with FDM modules

Desk units comprise a range of plug and play power and data modules suitable for use under the desktop.

Product information

- ABS Moulded or aluminium bodies
- Fed from wall trunking, powertrack, floor boxes, grommets or powerpoles
- For single use or interlinked
- In-feed supply either by MT32 or Wieland connection
- Individual 5Amp or 3.15Amp fuses
- 2, 3 and 4 gang options
- Desk units comply with BS 6396 for Electrical Systems in Office Furniture and with BS 1362-2 (where applicable)

Standard colour
BK
BK: Black



Moulded



- Moulded through unit with master switch and individually fused sockets
- MT32 in/out connector
 - Use with MT32 flex system

code	size	rating	pack
DM2201	2-gang	3.15Amp	1
DM2301	3-gang	3.15Amp	1
DM2401	4-gang	3.15Amp	1
DM2221	2-gang	5Amp	1
DM2321	3-gang	5Amp	1
DM2421	4-gang	5Amp	1



- Moulded terminal unit with master switch and individually fused sockets
- MT32 in-feed connector
 - Use with MT32 flex system

code	size	rating	pack
DM1201	2-gang	3.15Amp	1
DM1301	3-gang	3.15Amp	1
DM1401	4-gang	3.15Amp	1
DM1221	2-gang	5Amp	1
DM1321	3-gang	5Amp	1
DM1421	4-gang	5Amp	1



- Moulded through unit with master switch and individually fused sockets
- Wieland in/out connector

code	size	rating	pack
DM2202	2-gang	3.15Amp	1
DM2302	3-gang	3.15Amp	1
DM2402	4-gang	3.15Amp	1
DM2222	2-gang	5Amp	1
DM2322	3-gang	5Amp	1
DM2422	4-gang	5Amp	1



- Moulded terminal unit with master switch and individually fused sockets
- Wieland in-feed connector

code	size	rating	pack
DM1202	2-gang	3.15Amp	1
DM1302	3-gang	3.15Amp	1
DM1402	4-gang	3.15Amp	1
DM1222	2-gang	5Amp	1
DM1322	3-gang	5Amp	1
DM1422	4-gang	5Amp	1

Aluminium



- Aluminium through unit with master switch and individually fused sockets
- MT32 in connector
 - Use with MT32 flex system

code	size	rating	pack
DM4201	2-gang	3.15Amp	1
DM4301	3-gang	3.15Amp	1
DM4401	4-gang	3.15Amp	1
DM4221	2-gang	5Amp	1
DM4321	3-gang	5Amp	1
DM4421	4-gang	5Amp	1



- Aluminium terminal unit with master switch and individually fused sockets
- MT32 in-feed connector
 - Use with MT32 flex system

code	size	rating	pack
DM3201	2-gang	3.15Amp	1
DM3301	3-gang	3.15Amp	1
DM3401	4-gang	3.15Amp	1
DM3221	2-gang	5Amp	1
DM3321	3-gang	5Amp	1
DM3421	4-gang	5Amp	1



- Aluminium through unit with master switch and individually fused sockets
- MT32 in connector
 - Use with MT32 underfloor system
 - For linking modules use MT32 flex connectors

code	size	rating	pack
DM4202	2-gang	3.15Amp	1
DM4302	3-gang	3.15Amp	1
DM4402	4-gang	3.15Amp	1
DM4222	2-gang	5Amp	1
DM4322	3-gang	5Amp	1
DM4422	4-gang	5Amp	1



- Aluminium terminal unit with master switch and individually fused sockets
- MT32 in-feed connector
 - Use with MT32 underfloor system

code	size	rating	pack
DM3202	2-gang	3.15Amp	1
DM3302	3-gang	3.15Amp	1
DM3402	4-gang	3.15Amp	1
DM3222	2-gang	5Amp	1
DM3322	3-gang	5Amp	1
DM3422	4-gang	5Amp	1

Product information

- CE (Clean Earth) systems
- Units with data modules

For more information about either of the above, please contact the Technical Team on 01424 856688.

Underfloor to desk solutions
MT32 power cables

16Amp interconnecting power cable

- MT32 male/female connectors
- Use with MT32 flex system

code	length	pack
AA3330	0.5m	1
AA3331	1m	1
AA3332	1.5m	1
AA3333	3m	1
AA3335	5m	1



13Amp in-feed power cable

- MT32 connector
- Use with MT32 flex system

code	length	pack
DM8101	1m	1
DM8102	2m	1
DM8103	3m	1

Underfloor to desk solutions
Wieland power cables

16Amp interconnecting power cable

- Wieland male/female connectors

code	length	pack
DM8501	0.5m	1
DM8502	1m	1
DM8503	1.5m	1
DM8504	3m	1
DM8505	3.5m	1

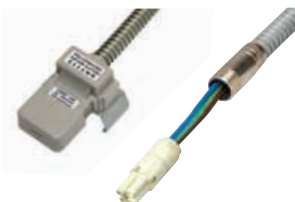


13Amp in-feed power cable

- Wieland connector

code	length	pack
DM8301	1m	1
DM8302	2m	1
DM8303	3m	1

*Only for use with DM modules

Underfloor to desk solutions
Series 507 tap-off

Series 507 tap-off

- To MT32 connector

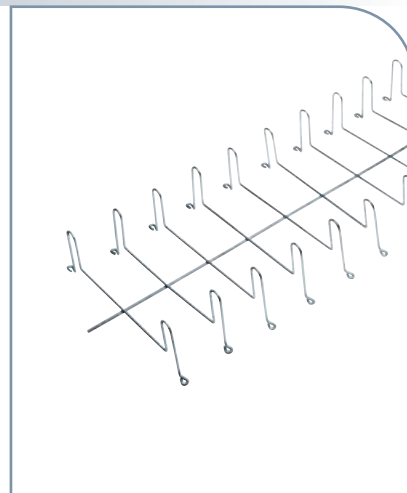
code	length	rating	pack
UN8123	3m	13Amp fused	1
UN8125	5m	13Amp fused	1



Other products are available as part of the Underfloor to Desk range of systems

SnakeWay

The SnakeWay wire support system can be hand-formed on site and is ideal for carrying large quantities of data cable beneath the raised floor. For further information on SnakeWay please refer to section: Ladder, Tray and SnakeWay on page 199 of this catalogue.



PowerPoles and PowerPosts

PowerPoles and Power Posts are a practical and efficient way of managing services to island workstations. For further information on PowerPoles and PowerPosts, please refer to that section on page 45 of this catalogue.



Other pre-wired units

A variety of different pre-wired power and data modules can be made to your specification. For further information please contact the Technical Team on 01424 856688.

- Aluminium or PVC-U
- Wall mounting
- Desk mounting
- Free standing
- Tailor-made specification of power and data outlets

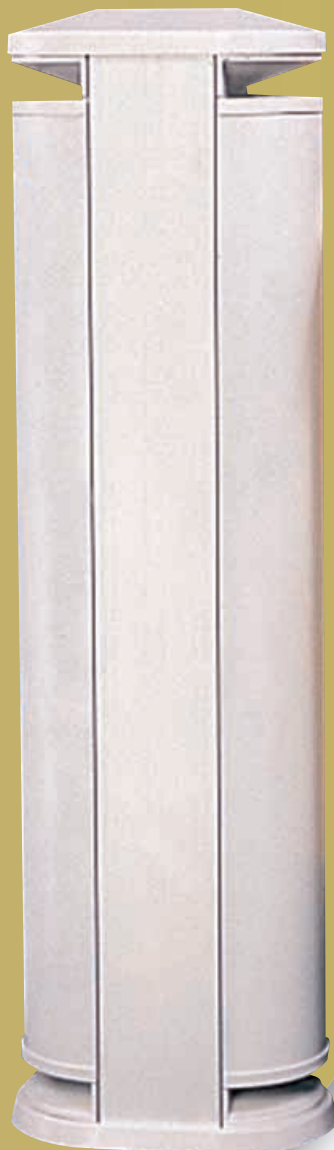




PowerPoles and PowerPosts

www.marshall-tufflex.com

PowerPoles and PowerPosts are a practical and elegant solution for the management of power, data and communication services to island workstations.



PowerPoles are a practical and elegant solution for the management of power, data and communication services to island work stations.

Product information

- Aluminium body for strength and rigidity
- PowerPoles are suitable for suspended and solid ceiling applications
- Cabling to PowerPoles can be fed from the ceiling, from the floor or both.
- Single and double sided options
- Doors available with Series 2
- Series 2 PowerPoles provide option of key operated locks fitted to hinged covers
- Standard 3.6m pole includes ceiling fixing bracket
- 1m fixing bracket available for installations above 3.6m
- Pole extension kit available to extend up to 5m
- Can be sub-divided and screened between services
- Flush accessories
- Can be supplied pre-wired

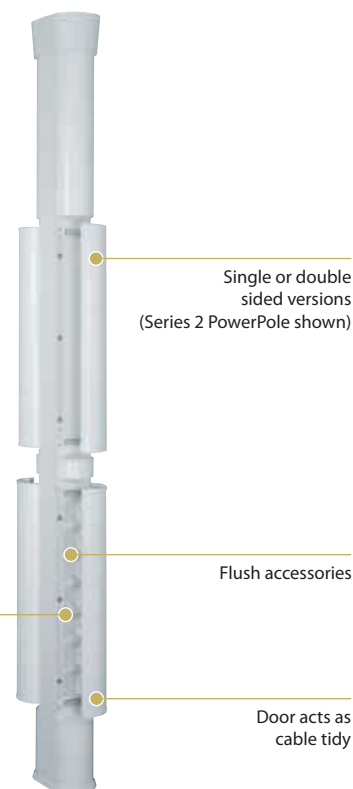
Standard finish Series 1	
ANWH	WHWH
ANWH: • Anodised body • White fittings	WHWH: • White body • White fittings

Standard finish Series 2	
ANWH	WHWH
ANWH: • Anodised body • Anodised doors • White fittings	WHWH: • White body • White doors • White fittings

Series 1 PowerPoles are supplied with 6 accessory boxes

Single-sided Series 2 PowerPoles are supplied with 7 accessory boxes and pre-installed dividing fillets

Double-sided Series 2 PowerPoles are supplied with 14 accessory boxes and pre-installed dividing fillets



PowerPoles Series 1

PowerPole – Series 1 Square Single-sided

code	pack
PPS36001ANWH	1
with 250mm adjustable slide	
PPS36002ANWH	1
with 1150mm adjustable slide	
PPS36001WHWH	1
with 250mm adjustable slide	
PPS36002WHWH	1
with 1150mm adjustable slide	

Note: Series 1 single-sided PowerPoles come complete with 6 accessory boxes

Material: Aluminium body with PVC-U covers

Finish: White powder coat or natural anodised finish



Dividing fillet Single sided

code	pack
ELDF200	8 x 3m

For Series 1 single sided pole



*RCD/MCB housing

code	Pack
EAHC4WH	1

*Up to 4 modules can be housed.

Note: RCD not supplied by Marshall-Tufflex



PowerPole – Series 1 Square Double-sided

code	pack
PP36001ANWH	1
with 250mm adjustable slide	
PP36002ANWH	1
with 1150mm adjustable slide	
PP36001WHWH	1
with 250mm adjustable slide	
PP36002WHWH	1
with 1150mm adjustable slide	

Note: Series 1 double-sided PowerPoles come complete with 6 accessory boxes

Material: Aluminium body with PVC-U covers

Finish: White powder coat or natural anodised finish

Dividing fillet Double sided

code	pack
EDF1	8 x 3m

For Series 1 double sided pole



*RCD/MCB housing

code	Pack
EAHC2WH	1

*Up to 4 modules can be housed.

Note: RCD not supplied by Marshall-Tufflex

Fixing system

An adjustable slide fixing system to the ceiling is included with the PowerPole. Please order 250mm or 1150mm as required (see left).



Extension Kit Double-sided(1400mm) For Series 1 PowerPoles

code	Anodised	White	Pack
PP1400EAN			1
PP1400EWH			1



PowerPoles Series 2

PowerPole – Series 2
Circular
Single-sided

code	pack
NPPC3600721ANWH	1
NPPC3600721VHWH	1

Height: Maximum height of Series 2 PowerPoles is 3686mm. For additional heights within ceiling voids, a 1m adjusting slide is available (PHAS2)

Note: Series 2 single-sided PowerPoles come complete with 7 accessory boxes and a further 7 boxes can be accommodated

Material: Aluminium body and doors

Finish: White powder coat or natural anodised finish

Dividing fillets: dividing fillets are pre-installed in Series 2 PowerPoles

PowerPole – Series 2
Elliptical
Double-sided

code	pack
NPPE36001441ANWH	1
NPPE36001441VHWH	1

Height: Maximum height of Series 2 PowerPoles is 3686mm. For additional heights within ceiling voids, a 1m adjusting slide is available (PHAS2)

Note: Series 2 double-sided PowerPoles come 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 in Series 2 PowerPoles

*Single-sided Extension Kit
For Series 2 circular
PowerPoles

code	Pack
NPPC1400EAN	1

*Extends pole up to 5m

*Double-sided Extension Kit
For Series 2 elliptical
PowerPoles

code	Pack
NPPE1400EAN	1

*Extends pole up to 5m

Components

*RCD/MCB housing
Series 2

code	Pack
EAHC2WH	1

*Up to 4 modules can be housed.

Note: RCD not supplied by Marshall-Tufflex

Door locking assembly
Series 2

code	Pack
NPPLA1ANWH	1
NPPLA1VHWH	1

Note: please contact Technical Team for details

Cover
Series 1 and 2

code	PowerPole	pack
PL1WH	8 x 3m	

Accessory box spacer
Series 1 and 2

code	pack
ES1WH	4

For use between accessory boxes

Boxes (Series 1 and 2)



1 gang accessory box

code	depth	pack
ESSB1WH	30mm	20



1 gang adjustable box

code	depth	pack
EAB1WH	32 – 40mm	10

Wired 13Amp 1 gang vertical
mount switched socket

code	depth	pack
ESS11WH	30mm	1

Vertical mounted flush
data module

code	size	pack
EM526WH	2 x RJ45	1

Screened boxes

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide 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.
BS 7671:2001. For data/voice use only.



1 gang screened accessory box

code	depth	pack
ESSB1SWH*	30mm	1

1 gang screened adjustable box

code	depth	pack
EAB1SWH*	32 – 40mm	1

*Supplied complete with earth terminal

PowerPosts are a practical and elegant solution for the management of power, data and communication services to island work stations.

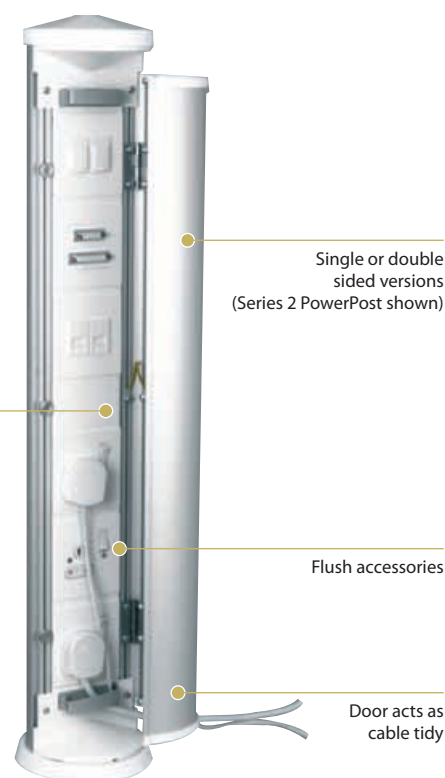
Product information

- PowerPosts are suitable for all floor applications
- Single and double sided options
- Doors available with Series 2
- Series 2 provides option of key operated locks fitted to hinged covers
- Series 1 Designed to fit below standard desk height
- Flush accessories
- Can be supplied pre-wired

Standard finish Series 1		Standard finish Series 2	
ANWH	WHWH	ANWH	WHWH
ANWH: • Anodised body • White fittings	WHWH: • White body • White fittings	ANWH: • Anodised body • Anodised doors • White fittings	WHWH: • White body • White doors • White fittings

Single-sided Series 2 PowerPosts are supplied with 7 accessory boxes and a pre-installed dividing fillet

Double-sided Series 2 PowerPosts are supplied with 14 accessory boxes and a pre-installed dividing fillet



PowerPosts Series 1



PowerPost – Series 1 Square Double-sided

code	pack
PP685ANWH	1
PP685VHWH	1

Height: Overall height of Series 1 PowerPoles is 692mm

Note: Series 1 double-sided PowerPoles come complete with 6 accessory boxes

Material: Aluminium body with PVC-U covers

Finish: White powder coat or natural anodised finish

Components



Dividing fillet Double sided

code	pack
EDF1	8 x 3m



*RCD/MCB housing

code	Pack
EAHC2WH	1

*Up to 4 modules can be housed

Note: RCD not supplied by Marshall-Tufflex

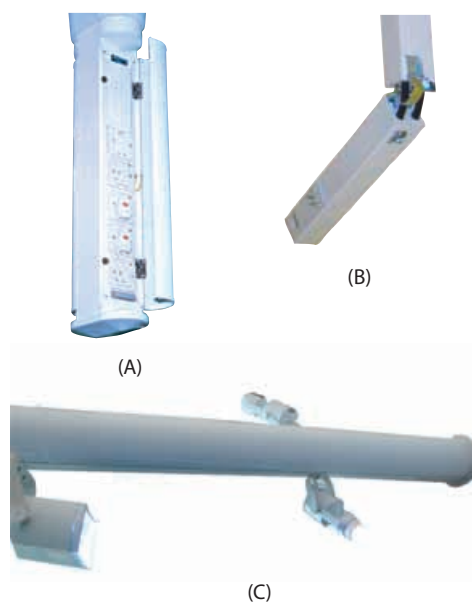
Special solutions

The Specialised Applications team provides tailor made solutions for individual applications.

A) Shows a fixed, ceiling-mounted PowerPost.

B) Shows a foldaway ceiling-mounted PowerPost.

C) Horizontally mounted PowerPole



For further information on special solutions please call our Technical Team on 01424 856688.

PowerPosts Series 2

PowerPost – Series 2
Circular Single-sided

code	pack
NPPC80761ANWH	1
NPPC80761WHWH	1

Height: Overall height of Series 2 PowerPosts is 838mm

Note: Series 1 single-sided PowerPosts come complete with 7 accessory boxes

Material: Aluminium body and doors

Finish: White powder coat or natural anodised finish

Dividing fillets: dividing fillets are pre-installed in Series 2 PowerPosts

PowerPost – Series 2
Elliptical Double-sided

code	pack
NPPE811142ANWH	1
NPPE811142WHWH	1

Height: Overall height of Series 2 PowerPosts is 838mm

Note: Series 2 double-sided PowerPosts come complete with 14 accessory boxes

Material: Aluminium body and doors

Finish: White powder coat or natural anodised finish

Dividing fillets: dividing fillets are pre-installed in Series 2 PowerPosts

Components

*RCD/MCB housing
Series 2

code	Pack
EAHC2WH	1

*Up to 4 modules can be housed

Note: RCD not supplied by Marshall-Tufflex

Door locking assembly
Series 2

code	Pack
NPPLA1ANWH	1
NPPLA1WHWH	1

Note: please contact Technical Team for details

Cover
Series 1 and 2

code	pack
PL2WH PowerPost 1 x 685mm	

Accessory box spacer
Series 1 and 2

code	pack
ES1WH	4

For use between accessory boxes

Boxes (Series 1 and 2)



1 gang accessory box

code	depth	pack
ESSB1WH	30mm	20



1 gang adjustable box

code	depth	pack
EAB1WH	32 – 40mm	10

Wired 13Amp 1 gang vertical
mount switched socket

code	depth	pack
ESS11WH	30mm	1

Vertical mounted flush
data module

code	size	pack
EM526WH	2 x RJ45	1

Screened boxes

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide 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.
BS 7671:2001. For data/voice use only.



1 gang screened accessory box

code	depth	pack
ESSB1SWH*	30mm	1

1 gang screened adjustable box

code	depth	pack
EAB1SWH*	32 – 40mm	1

*Supplied complete with earth terminal



PVC-U perimeter trunking systems

www.marshall-tufflex.com

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



PVC-U Perimeter trunking systems

POLYVINYLCHLORIDE UNPLASTICISED (PVC-U) is one of the most successful modern synthetic materials. It makes excellent use of scarce resources, is long-lasting and safe in production, use and disposal. PVC-U cable containment is easy to install, light to handle and very cost-effective. It is an excellent choice of material for the majority of commercial, education and healthcare environments and has been more thoroughly researched than almost any other synthetic material.



Environmental

- 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.
- Lowest oil content of a commodity plastic.



Recycling and sustainability

- PVC-U is a cost-effective, sustainable choice and comparable with other materials such as steel, aluminium, copper and wood.
- 100% recyclable material.
- Long life cycle.
- Excellent weather resistance.
- No painting or powder coating required.



EMC properties

- Conductive spray coating 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.
- 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.
- Chars and is self-extinguishing.
- Does not produce flaming droplets or burning debris.
- ABS fittings fire rated to UL94V0.

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

Standard colour

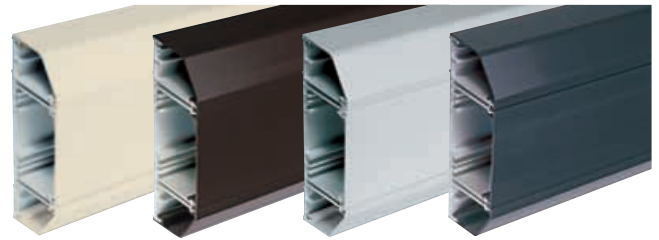
The standard colour for our PVC-U Perimeter trunking systems is white RAL 9003. All products that appear in this section of the catalogue will include the colour code WH after the product code, and a table reference underneath the product information:

Standard colour
WH
WH: White



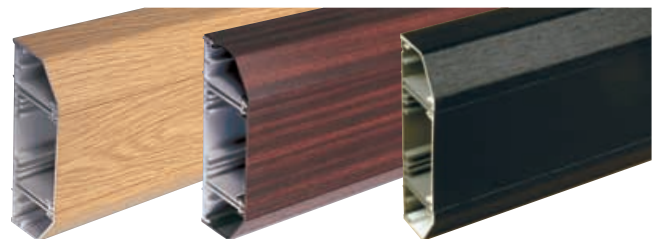
Solid colours

To help enhance the style of an installation, different variations of solid colour are available. The most popular of these are: Beige, Light Grey, Brown and Charcoal. These colours can be indicated by replacing the WH colour code with the specific colour code required.



Woodgrain finishes

For a truly authentic look, we can offer a range of woodgrain finishes for trunking and fittings in Light Oak, Mahogany and Ebony, to provide interior designers with the scope to offer a more traditional feel. Colours can be indicated by replacing the WH colour code with the specific woodgrain code required.



Colour coding

A variety of solid colours and finishes are available on request but these may be subject to minimum quantity orders and longer lead times. To order different colours or finishes it is always advisable to contact our Technical Team on 01424 856688 for further advice.

Solid colours			
BG	LG	BN	CH
BG: beige LG: light grey BN: brown CH: charcoal			

Woodgrain finish		
LO	MY	EY
LO: Light oak MY: Mahogany EY: Ebony		

Other colours and finishes

In addition we can also offer our clients a broad range of BS or RAL specified colours and foil finishes to our PVC-U product ranges. Again, it is important to remember that these may be subject to minimum quantity orders and increased lead times. For further information please call our Technical Team on 01424 856688.

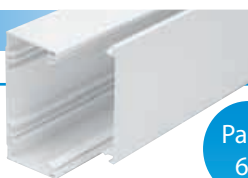


PVC-U multi-compartment perimeter trunking is available in different heights, designs, cable capacities and numbers of compartments to suit all installation requirements. Standard PVC-U products are supplied as white, however, other colours are available on request. For further information on colour options, please call our Technical Team on 01424 856688.

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

Mono 10**100 x 50mm**

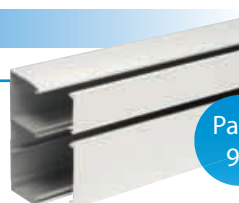
Small trunking with a single cover suitable for dado application and as a feeder trunking.



Page 60

Twin165**160 x 65mm**

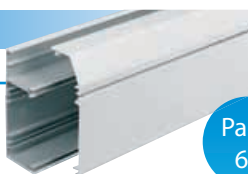
A mid-size dado trunking with one full size compartment and one two-thirds size compartment to accommodate Cat 6 and Cat 6a data cabling.



Page 98

Compact 1**130 x 50mm**

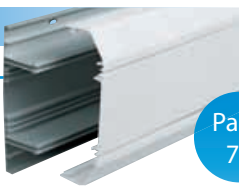
Dado and skirting trunking with one full and one half size compartment.



Page 66

Sterling Profile 1**167 x 50mm**

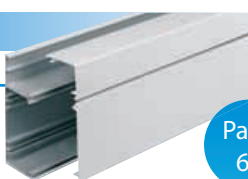
Dado trunking with three separate compartments and individual covers for each compartment.



Page 74

Compact 2**130 x 50mm**

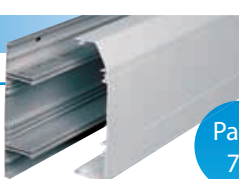
Dado and skirting trunking with one full and one half size compartment.



Page 68

Sterling Profile 2**167 x 50mm**

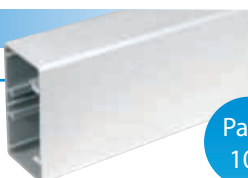
Skirting trunking with three separate compartments and individual covers for each compartment.



Page 74

Series R 130**130 x 65mm**

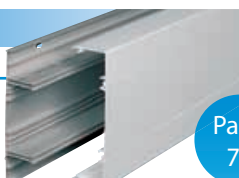
Extra deep compact trunking suitable for dado application and as a feeder trunking.



Page 104

Sterling Profile 3**167 x 50mm**

Dado and skirting trunking with three separate compartments and individual covers for each compartment.



Page 74

Mono Plus 20**140 x 50mm**

Dado trunking with three compartments and a single cover.



Page 62

Series R 170**170 x 65mm**

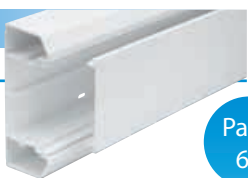
Extra deep, mid-size trunking suitable for dado application and as a feeder trunking.



Page 105

Mono Plus 30**155 x 55mm**

Trunking with one main compartment and two smaller outer compartments suitable for skirting or worktop application.



Page 64

Odyssey**180 x 57mm**

Curved profile trunking system with one main compartment and 2 smaller outer compartments suitable for dado application.



Page 56

Compact 3**181 x 50mm**

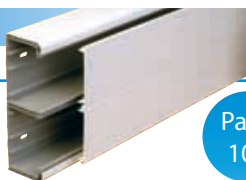
Dado and skirting trunking with two full size compartments.



Page 70

Twin Plus**210 x 57mm**

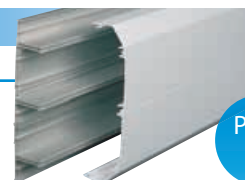
Large dado and skirting trunking with two deep compartments incorporating segregation of power and data.



Page
101

Sterling Profile 11**255 x 50mm**

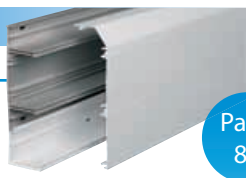
Dado trunking with four full size compartments and the option of extending the height.



Page
80

Sterling Profile 4**218 x 50mm**

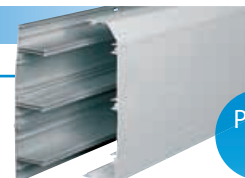
A larger dado and skirting trunking with one half size and two full compartments with the option of extending the height.



Page
80

Sterling Profile 12**255 x 50mm**

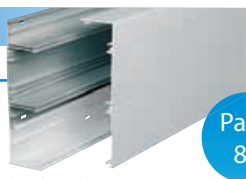
Skirting trunking with four full size compartments and the option of extending the height.



Page
80

Sterling Profile 5**218 x 50mm**

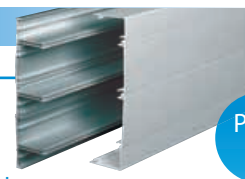
A larger dado and skirting trunking with one half size and two full compartments with the option of extending the height.



Page
80

Sterling Profile 13**255 x 50mm**

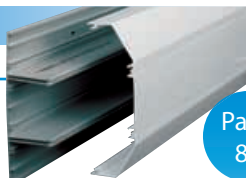
Dado and skirting trunking with four full size compartments and the option of extending the height.



Page
80

XL Trunking 201**220 x 65mm**

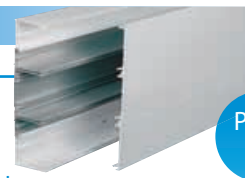
Dado trunking with three deep compartments.



Page
88

Sterling Profile 6**269 x 50mm**

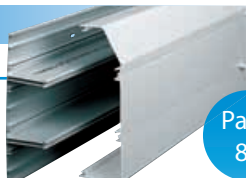
Dado and skirting trunking with three full size compartments and the option of extending the height.



Page
80

XL Trunking 202**220 x 65mm**

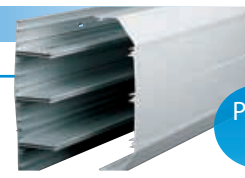
Skirting trunking with three deep compartments.



Page
88

XL Trunking 211**308 x 65mm**

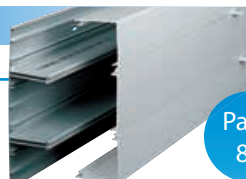
Dado trunking with four deep compartments.



Page
93

XL Trunking 203**220 x 65mm**

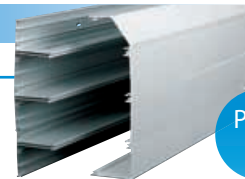
Dado and skirting trunking with three deep compartments.



Page
88

XL Trunking 212**308 x 65mm**

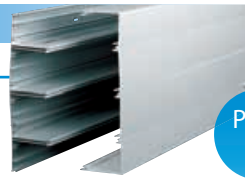
Skirting trunking with four deep compartments.



Page
93

XL Trunking 213**308 x 65mm**

Dado and skirting trunking with four deep compartments.



Page
93

Sterling Profile and XL Trunking

These trunking ranges can be extended easily by using additional compartments. For more information, contact the Technical Team on 01424 856688.

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

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.

DATA

**Product information**

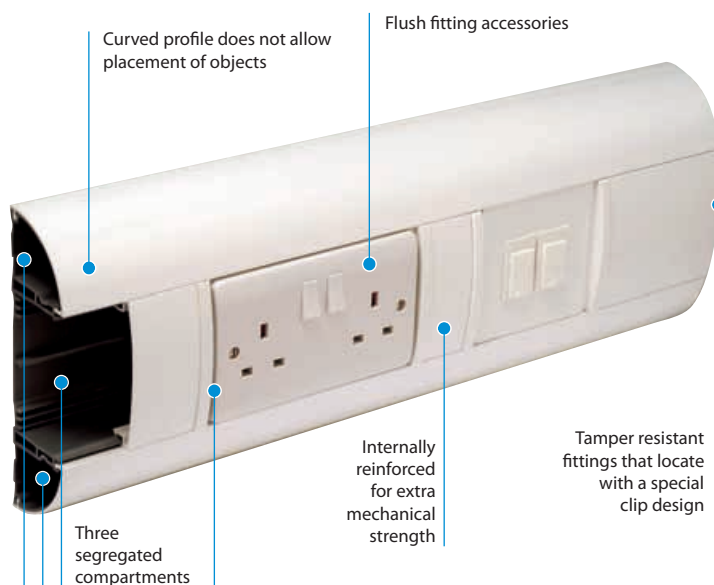
- 180 x 57mm
- 1 main compartment and 2 smaller outer compartments
- Can be sub-divided
- Suitable for dado application
- Available in antimicrobial Bio option (see page 203)
- Flush fitting accessories
- Tamper resistant covers and fittings

Data information

- Standard bend radius 25mm (Cat 6)
- Steel divider available to BS EN 50174-2
- Can be screened against EMI with no reduction in cable capacity
- Adjustable data box 32-40mm
- screened divider and data boxes

Standard colour
WH
WH: White

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 01424 856688.



Curved profile does not allow placement of objects

Flush fitting accessories

Three segregated compartments

Internally reinforced for extra mechanical strength

Tamper resistant fittings that locate with a special clip design



Trunking assembly
(base and 3 covers)

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

Part M

The Odyssey trunking range includes unique coloured accessory boxes that comply with the requirements of Part M (DDA). (See opposite page)



Trunking profile

Fittings

**Coupler**

code	pack
DD1210WH	1

**End cap**

code	pack
DD1230WH	2

**Internal bend**

code	pack
DD1310WH	1

**External bend**

code	pack
DD1350WH	1

**Internal bend adjustable**

code	adjustable	pack
DD1330WH	85-95°	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

Flat tee cover

An option is available to order a flat tee cover only. Please call the Technical Team on 01424 856688.

***RCD housing**

code	depth	pack
DD1580		1

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex

**Odyssey to MMT2 adaptor DD1740WH**

An Odyssey MMT2 adaptor – DD1740WH is now available as part of the Odyssey range. To order this product please contact the Technical Team on 01424 856688.

**1 gang accessory box**

code	depth	pack
DD1510WH	30mm	20

**2 gang accessory box**

code	depth	pack
DD1520WH	30mm	10

***1 gang adjustable depth box**

code	depth	pack
*DD1540WH	32 – 40mm	10

***2 gang adjustable depth box**

code	depth	pack
*DD1550WH	32 – 40mm	10

***Accessory box adaptor**

code	pack
DD1590WH	1

***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.

Odyssey Part M boxes

These unique contrasting coloured boxes form part of the Odyssey range and provide Part M compliance with DDA regulations for visual impairment.

For information and advice on other colours please call our Technical Team on 01424 856688.

**1 and 2 gang coloured accessory boxes**

code	description	pack
DD1510BG	1 gang – beige	20
DD1510BN	1 gang – brown	20
DD1510BU	1 gang – blue	20
DD1510CH	1 gang – charcoal	20
DD1510GN	1 gang – green	20
DD1510LG	1 gang – light grey	20
DD1510RD	1 gang – red	20
DD1520BG	2 gang – beige	10
DD1520BN	2 gang – brown	10
DD1520BU	2 gang – blue	10
DD1520CH	2 gang – charcoal	10
DD1520GN	2 gang – green	10
DD1520LG	2 gang – light grey	10
DD1520RD	2 gang – red	10

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide screening from electromagnetic interference to data and communications cabling with 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.
BS 7671:2001. For data/voice use only.

1 gang screened accessory box

---DATA---

code	depth	pack
ESSB1SWH*	30mm	1

2 gang screened accessory box

---DATA---

code	depth	pack
ESSB2SWH*	30mm	1

1 gang screened adjustable accessory box

---DATA---

code	depth	pack
EAB1SWH*	32 – 45mm	1

2 gang screened adjustable accessory box

---DATA---

code	depth	pack
EAB2SWH*	32 – 45mm	1

*Supplied complete with earth terminal

Steel screening divider

code	pack
ESF1	1

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

Bonding strap

code	pack
ESBS1	1

Steel screening divider bonding strap

code	pack
ESF2	1

Odyssey screened component chart

3 Compartment

Odyssey CS1

**Odyssey trunking assembly screened – 1 compartment only**

Pack 1 x 3m

**Odyssey trunking assembly screened – compartment 1 & 3**

Pack 1 x 3m

**Coupler (1 & 3)**

Pack 1

**End cap (1 & 3)**

Pack 2

**Internal bend (1 & 3)**

Pack 1

**Internal adjustable bend**

Please contact Technical Team

**External bend (1 & 3)**

Pack 1

**External adjustable bend**

Please contact Technical Team

**Flat angle (1 & 3)**

Pack 1

**Flat tee (1 & 3)**

Pack 1



For covers only, please contact the technical team

1 gang accessory box

Pack 1

**2 gang accessory box**

Pack 1



DD1001

DD1002

DD1212

DD1232

DD1312

–

DD1352

–

DD1412

DD1432

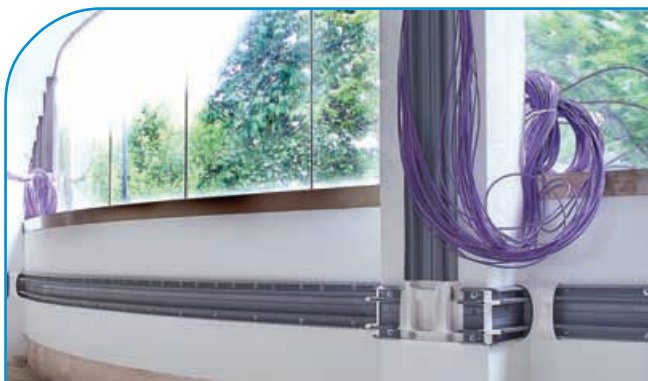
DD1511

DD1521

Case Study 1

For: Capgemini Office Building

Product: MT32 prefabricated wiring with Odyssey trunking



With an extremely tight timescale in place and the requirement for minimum disruption in completing the reconfiguration of services for Capgemini's South Bank offices, building services consultants Couch, Perry & Wilkes specified Marshall-Tufflex's all-curved Odyssey trunking along with their MT32 prefabricated wiring system.

MT32 is supplied pre-wired and tested for simple plug and play connection within trunking on site. For Capgemini, Odyssey trunking is also specified to carry Cat 6 cabling and its unique colour contrasting back boxes are installed to meet the requirements of Part M (DDA).

"Using MT32 significantly reduced time spent on the second fix installation, perhaps by as much as one week on each of the four floors being refurbished, helping the contractor to complete each section of the works within the constraints of a very tight programme.

"We like the versatility it offers and, being a modular system, it lends itself very favourably to the high density of outlets and simplifies the electrical wiring of the power distribution system. Odyssey's curved profile also reflects the curvature of the building itself."

Couch, Perry & Wilkes

Case Study 2

For: Old Swinford Hospital School, in Stourbridge

Product: Odyssey trunking with Part M boxes



At Old Swinford Hospital School in Stourbridge, blue accessory boxes are installed into Marshall-Tufflex's Odyssey trunking system as part of the refurbishment of student study and accommodation blocks, delivering both a smart look and satisfying requirements of Part M of the Building Regulations for assisting people with visual impairment.

"If we hadn't used Odyssey we would have been faced with the considerable extra cost of installing different coloured accessory plates.

"Odyssey's curved profile gives it a smart, contemporary appearance. From a practical perspective it is easy to clean, has in-built cable trays and is, above all, secure. The system has worked really well – in fact it is the best trunking I have ever worked with."

*Estates and Facilities
Old Swinford Hospital School*

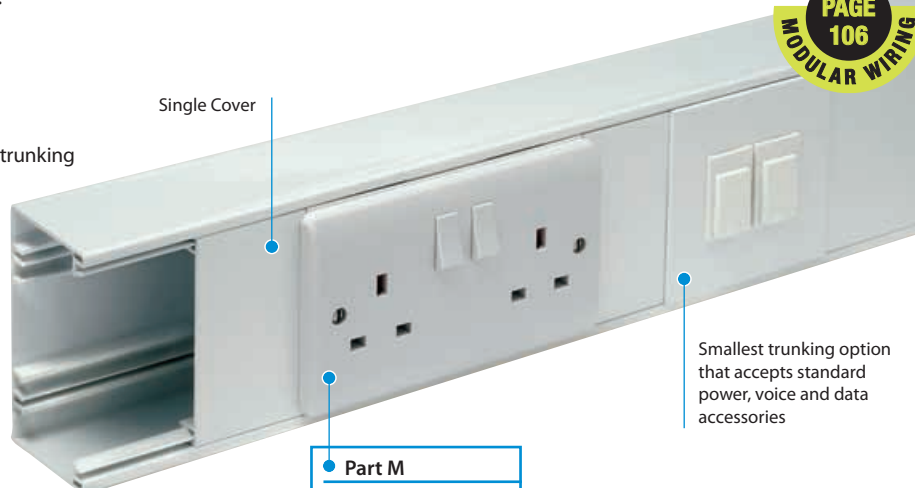
Mono 10 is a compact trunking that is perfectly suited for the smaller office or workshop area.

Product information

- 100 x 50mm
- 1 main compartment
- Can be sub-divided
- Suitable for dado application and as a feeder trunking

Data information

- adjustable data box 32-40mm
- screened divider and data boxes



Smallest trunking option that accepts standard power, voice and data accessories

Part M

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



Standard colour

WH

WH: White

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 01424 856688.

Basic components



Trunking base

code	pack
ETB10WH	4 x 3m



Main compartment cover

code	pack
ETL1WH	8 x 3m



Dividing tray

code	pack
EDF2	8 x 3m

Fittings



Coupler

code	pack
EC10WH	5



End cap

code	pack
EEC10WH	5



Internal bend

code	pack
EIB10WH	5



External bend

code	pack
EXB10WH	5



Flat angle cover

code	pack
EFA10WH	1



Flat tee – up/down

code	pack
EFT10WH	1
Fabricated	

Components



*RCD/MCB Housing		
code	depth	pack
EAH1WH	30mm	1



Cable retainer		
code	depth	pack
EMCR1	30mm	10



Screened dividing fillet		
code	depth	pack
EDF1CS	30mm	5

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex

Boxes and plates



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 – 40mm	10



2 gang adjustable depth box		
code	depth	pack
EAB2WH	32 – 40mm	5



1 gang accessory plate		
code	depth	pack
ESSP1WH	30mm	10



2 gang accessory plate		
code	depth	pack
ESSP2WH	30mm	5

Part M

1 and 2 gang box assemblies with contrasting coloured flush plates are available to comply with the requirements of Part M (DDA).



code	description	pack
ESPM1BU	1 gang - blue plate	1
ESPM1CH	1 gang - charcoal plate	1
ESPM1RD	1 gang - red plate	1
ESPM2BU	2 gang - blue plate	1
ESPM2CH	2 gang - charcoal plate	1
ESPM2RD	2 gang - red plate	1

Screened boxes

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide 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. BS 7671:2001. For data/voice use only.



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

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

1 gang screened adjustable box		
code	depth	pack
EAB1SWH*	32 – 40mm	10

2 gang screened adjustable box		
code	depth	pack
EAB2SWH*	32 – 40mm	10

*Supplied complete with earth terminal

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 sub-divided
- Suitable for dado application

Data information

- Standard bend radius 25mm (Cat 6)
- Adjustable data box 32-40mm
- screened divider and data boxes

Standard colour
WH
WH: White

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 01424 856688.

Dividing fillet option for centre compartment

Single Cover

Three segregated compartments

Part M

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



Smallest 3 compartment trunking option that accepts standard power, voice and data accessories



Basic components

**Trunking base**

code	pack
EMT20WH	4 x 3m

**Main compartment cover**

code	pack
ETL1WH	8 x 3m

**Dividing fillet**

code	pack
EDF1	8 x 3m

Fittings

**Coupler**

code	pack
EC20WH	5

**End cap**

code	pack
EEC20WH	5

**Internal bend**

code	pack
EIB20WH	5

**External bend**

code	pack
EXB20WH	5

**Flat angle - up/down**

code	pack
EFA20WH	1
Fabricated	

**Slow bend**

code	pack
EFA20SBWH	1
Fabricated	

**Flat tee - up/down**

code	pack
EFT20WH	1
Fabricated	

**Flat tee Gusseted**

code	pack
EFT20GTWH	1
Fabricated	

***RCD/MCB Housing**

code	pack
EABC5WH	1

**Main crossover bridge**

code	pack
EMCB1	5

**Main cable retainer**

code	pack
EMCR1	10

*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



---DATA---

1 gang adjustable depth box

code	depth	pack
EAB1WH	32 – 40mm	10



---DATA---

2 gang adjustable depth box

code	depth	pack
EAB2WH	32 – 40mm	5

**1 gang accessory plate**

code	pack
ESSP1WH	10

**2 gang accessory plate**

code	pack
ESSP2WH	5

Part M

1 and 2 gang box assemblies with contrasting coloured flush plates are available to comply with the requirements of Part M (DDA).



code	description	pack
ESPM1BU	1 gang - blue plate	1
ESPM1CH	1 gang - charcoal plate	1
ESPM1RD	1 gang - red plate	1
ESPM2BU	2 gang - blue plate	1
ESPM2CH	2 gang - charcoal plate	1
ESPM2RD	2 gang - red plate	1

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide 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. BS 7671:2001. For data/voice use only.

**1 gang screened box**

code	depth	pack
ESSB1SWH*	30mm	20

2 gang screened box

code	depth	pack
ESSB2SWH*	30mm	10

1 gang screened adjustable box

code	depth	pack
EAB1SWH*	32 – 40mm	10

2 gang screened adjustable box

code	depth	pack
EAB2SWH*	32 – 40mm	10

*Supplied complete with earth terminal

Mono Plus 30 is an economical and stylish three-compartment compact skirting system, particularly suitable for general office applications.

Product information

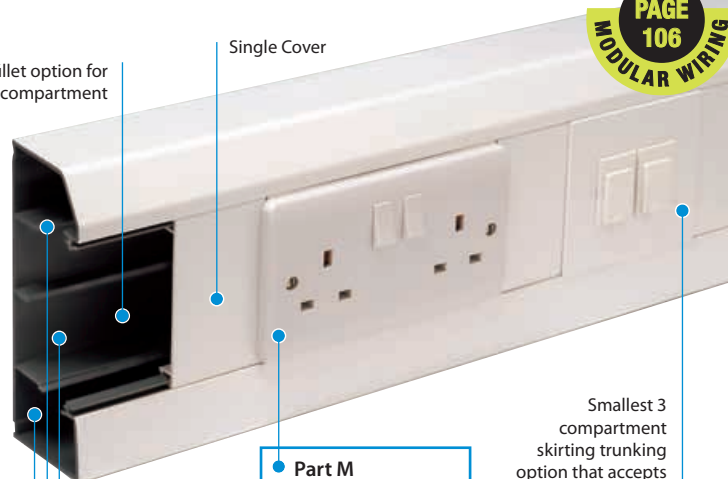
- 155 x 55mm
- 1 main compartment and 2 smaller outer compartments
- Can be sub-divided
- Suitable for skirting or worktop application

Data information

- Standard bend radius 25mm (Cat 6)
- Adjustable data box 32-40mm
- screened divider and data boxes

Dividing fillet option for centre compartment

Single Cover



Smallest 3 compartment skirting trunking option that accepts standard power, voice and data accessories

Part M

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

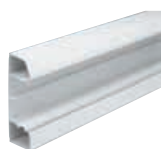
**Standard colour**

WH

WH: White

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 01424 856688.

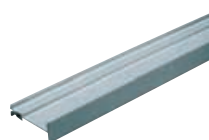
Basic components

**Trunking (including 2 segregators)**

code	pack
EMT30WH	4 x 3m

**Main compartment cover**

code	pack
ETL1WH	8 x 3m

**Dividing fillet**

code	pack
EDF30	8 x 3m

Fittings

**Coupler**

code	pack
EC30WH	5

**End cap**

code	pack
EEC30LHWH (left hand)	5
EEC30RHWH (right hand)	5

**Internal bend**

code	pack
EIB30WH	5

**External bend**

code	pack
EXB30WH	5

**Flat angle – upward Fabricated**

code	pack
EFA30UWH	1

**Flat angle – downward Fabricated**

code	pack
EFA30DWH	1

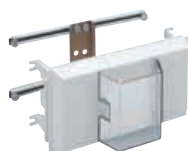
**Flat tee – upward Fabricated**

code	pack
EFT30ULWH	1

**Flat tee – downward Fabricated**

code	pack
EFT30DLWH	1

Components

***RCD/MCB Housing**

code	pack
EAHC6WH	1

**Main crossover bridge**

code	pack
EMCB1	5

**Main cable retainer**

code	pack
EMCR1	10

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex

Boxes and plates

**1 gang accessory box**

code	depth	pack
ESSB1WH	30mm	20

**2 gang accessory box**

code	depth	pack
ESSB2WH	30mm	10



---DATA---

1 gang adjustable depth box

code	depth	pack
EAB1WH	32 – 40mm	10



---DATA---

2 gang adjustable depth box

code	depth	pack
EAB2WH	32 – 40mm	5

**1 gang accessory plate**

code	pack
ESSP1WH	10

**2 gang accessory plate**

code	pack
ESSP2W11	5

Part M

1 and 2 gang box assemblies with contrasting coloured flush plates are available to comply with the requirements of Part M (DDA).



code	description	pack
ESPM1BU	1 gang - blue plate	1
ESPM1CH	1 gang - charcoal plate	1
ESPM1RD	1 gang - red plate	1
ESPM2BU	2 gang - blue plate	1
ESPM2CH	2 gang - charcoal plate	1
ESPM2RD	2 gang - red plate	1

Screened boxes

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide 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. BS 7671:2001. For data/voice use only.

**1 gang screened box**

code	depth	pack
ESSB1SWH*	30mm	20

2 gang screened box

code	depth	pack
ESSB2SWH*	30mm	10

1 gang screened adjustable box

code	depth	pack
EAB1SWH*	32 – 40mm	10

2 gang screened adjustable box

code	depth	pack
EAB2SWH*	32 – 40mm	10

*Supplied complete with earth terminal

Compact 1 is a smaller, 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.



Product information

- 130 x 50mm
- 1 full and 1 half size compartment
- For dado installation
- Can be sub-divided

Data information

- Standard bend radius 25mm (Cat 6)
- Data fittings available for bend radius up to 50mm
- Compact 1 and 2 small compartment can be screened against EMI with no reduction in cable capacity
- Adjustable data box 32-40mm
- Screened divider and data boxes
- Steel divider available

Dividing fillet option for large compartment

Angled cover

Separate access to each compartment

Part M

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



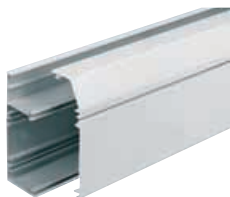
Standard colour

WH

WH: White

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 01424 856688.

Basic components



Compact 1

size
130 x 50mm



Base unit

code	pack
ETB2WH	4 x 3m



Main compartment cover

code	pack
ETL1WH	8 x 3m



Angled cover

code	pack
ETAC1WH	8 x 3m

Fittings



Compact 1 Couplers

code	description	pack
ECC1WH	2 piece	5
ECHC1WH	1 piece	5



Compact 1 End caps LH & RH

code	description	pack
EECC1LHWH	2 piece	5
EECC1RHWH	2 piece	5
EECHC1LHWH	1 piece	5
EECHC1RHWH	1 piece	5



Dividing fillet

code	pack
EDF1	8 x 3m



Compact 1 Flat angle upward

code	pack
EFAC1UWH	1



Compact 1 Flat angle downward

code	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

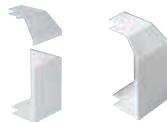
For further advice please call the Technical Team on 01424 856688.

Fittings



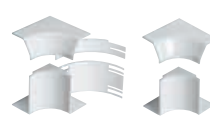
Compact 1
Internal bend

code	description	pack
EIBC1WH	2 piece	5
EIBHC1WH	1 piece	5



Compact 1
External bend

code	description	pack
EXBC1WH	2 piece	5
EXBHC1WH	1 piece	5



Compact 1
Internal bend assembly

code	description	pack
ELIBC1WH	assemblies	1
EIBC1WH	covers only	1



Compact 1
External bend assembly

code	description	pack
ELIBC1WH	assemblies	1

Components



*RCD/MCB housing

code	pack
EAHC1WH	1

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



Angled crossover bridge

code	size	pack
EACB1		5

Provides segregation of services crossing from one compartment to another



Main crossover bridge

code	size	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. For skirting application use cable tray



Main cable retainer

code	pack
EMCR1	10

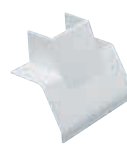
The recommended cable retainer for all compartments which use the ETL1WH lid



Angled mini-trunking
adapter

code	size	pack
EATA2WH	MMT2	5

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



Angled mini-trunking
adapter

code	size	pack
EATA4WH	MMT4	5

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

Boxes and plates



1 gang accessory box

code	depth	pack
ESSB1WH	30mm	20



2 gang accessory box

code	depth	pack
ESSB2WH	30mm	10

Part M

1 and 2 gang box assemblies with contrasting coloured flush plates are available to comply with the requirements of Part M (DDA).



code	description	pack
ESPM1BU	1 gang - blue plate	1
ESPM1CH	1 gang - charcoal plate	1
ESPM1RD	1 gang - red plate	1
ESPM2BU	2 gang - blue plate	1
ESPM2CH	2 gang - charcoal plate	1
ESPM2RD	2 gang - red plate	1



1 gang adjustable
depth box

code	depth	pack
EAB1WH	32 – 40mm	10



2 gang adjustable
depth box

code	size	pack
EAB2WH	32 – 40mm	5



1 gang accessory plate

code	pack
ESSP1WH	10



2 gang accessory plate

code	pack
ESSP2WH	5

Compact 2 is a smaller, 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

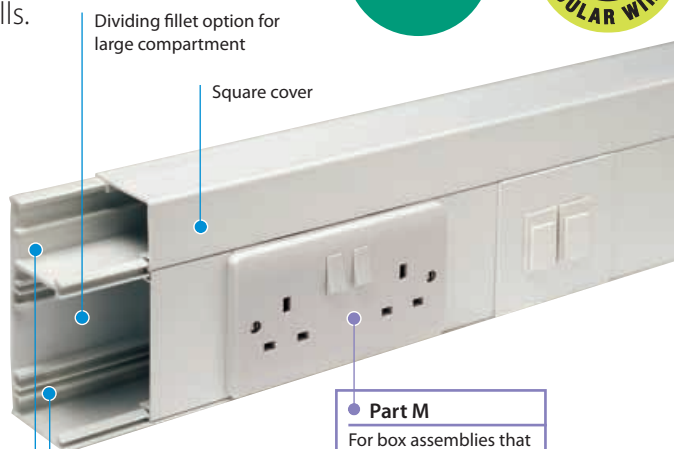
- 130 x 50mm
- 1 full and 1 half size compartment
- For dado and skirting installation
- Note: where Compact 2 is fitted at skirting level, it is recommended that the larger compartment is installed uppermost.
- Can be sub-divided

Data information

- Standard bend radius 25mm (Cat 6)
- Data fittings available for bend radius up to 50mm
- Compact 1 and 2 small compartment can be screened against EMI with no reduction in cable capacity
- Adjustable data box 32-40mm
- Screened divider and data boxes
- Steel divider available

Standard colour
WH
WH: White

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 01424 856688.



Dividing fillet option for large compartment

Square cover

Separate access to each compartment

Part M

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



Basic components

**Compact 2**

size
130 x 50mm

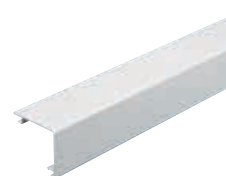
Note: invert for skirting application

**Base unit**

code	pack
ETB2WH	4 x 3m

**Main compartment cover**

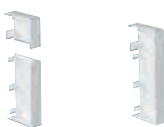
code	pack
ETL1WH	8 x 3m

**Square cover**

code	pack
ETSC1WH	8 x 3m

**Compact 2 Couplers**

code	description	pack
ECC2WH	2 piece	5
EHC2WH	1 piece	5

**Compact 2 End caps LH & RH**

code	description	pack
EECC2LHWH	2 piece	5
EECC2RHWH	2 piece	5
EEHC2LHWH	1 piece	5
EEHC2RHWH	1 piece	5

**Dividing fillet**

code	pack
EDF1	8 x 3m

Fittings

**Compact 2 Flat angle - upward**

code	pack
EFAC2UWH	1

**Compact 2 Flat angle - downward**

code	pack
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 01424 856688.

Fittings



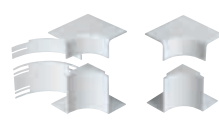
Compact 2
Internal bend

code	description	pack
EIBC2WH	2 piece	5
EIBHC2WH	1 piece	5



Compact 2
External bend

code	description	pack
EXBC2WH	2 piece	5
EXBHC2WH	1 piece	5



Compact 2
Internal bend assembly
and cover only

code	description	pack
ELIBC2WH	assemblies	1
EIBC2WH	covers only	1



Compact 2
External bend

code	description	pack
ELOBC2WH	assemblies	1

Components



*RCD/MCB Housing

code	pack
EAHC1WH	1

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex



Square crossover bridge

code	pack
ESCB1	5

Provides segregation of services crossing from one compartment to another



Main crossover bridge

code	pack
EMCB1	5

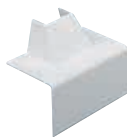
Provides segregation of services crossing from one compartment to another



Main cable retainer

code	pack
EMCR1	10

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



Square mini-trunking
adapter

code	size	pack
ESTA2WH	MMT2	5

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



Square mini-trunking
adapter

code	size	pack
ESTA4WH	MMT4	5

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

Boxes and plates



1 gang accessory box

code	depth	pack
ESSB1WH	30mm	20



2 gang accessory box

code	depth	pack
ESSB2WH	30mm	10

Part M

1 and 2 gang box assemblies with contrasting coloured flush plates are available to comply with the requirements of Part M (DDA).



code	description	pack
ESPM1BU	1 gang - blue plate	1
ESPM1CH	1 gang - charcoal plate	1
ESPM1RD	1 gang - red plate	1
ESPM2BU	2 gang - blue plate	1
ESPM2CH	2 gang - charcoal plate	1
ESPM2RD	2 gang - red plate	1



1 gang adjustable
depth box

code	depth	pack
EAB1WH	32 – 40mm	10



2 gang adjustable
depth box

code	size	pack
EAB2WH	32 – 40mm	5



1 gang accessory plate

code	pack
ESSP1WH	10



2 gang accessory plate

code	pack
ESSP2WH	5

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

Product information

- 181 x 50mm
- 1 full and 1 half size compartment
- For dado and skirting installation
- **Note:** where Compact 2 is fitted at skirting level, it is recommended that the larger compartment is installed uppermost.
- Can be sub-divided

Data information

- Standard bend radius 25mm (Cat 6)
- Data fittings available for bend radius up to 50mm
- Compact 1 and 2 small compartment can be screened against EMI with no reduction in cable capacity
- Adjustable data box 32-40mm
- Screened divider and data boxes
- Steel divider available

Standard colour
WH
WH: White

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 01424 856688.



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



Basic components



Compact 3

size
181 x 50mm



Base unit

code	pack
ETB2WH	4 x 3m



Main compartment cover

code	pack
ETL1WH	8 x 3m



Base extension

code	pack
EBE1	4 x 3m



Dividing fillet

code	pack
EDF1	8 x 3m

Fittings



Compact 3
Coupler

code	description	pack
ECC3WH	2 piece	5
ECHC3WH	1 piece	5



Compact 3
End caps LH & RH

code	description	pack
EECC3LHWH	2 piece	5
EECC3RHWH	2 piece	5
EECHC3LHWH	1 piece	5
EECHC3RHWH	1 piece	5



Compact 3
Flat angle – up/down

code	pack
EFAC3WH	1



Compact 3
Flat tee – up/down

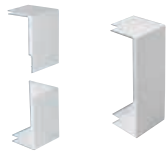
code	pack
EFTC3WH	1

Fittings



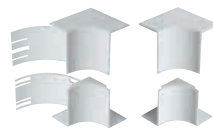
Compact 3
Internal bend

code	description	pack
EIBC3WH	2 piece	5
EIBHC3WH	1 piece	5



Compact 3
External bend

code	description	pack
EXBC3WH	2 piece	5
EXBHC3WH	1 piece	5



Compact 3
Internal bend assembly
and cover only

code	description	pack
ELIBCD3WH	assemblies	1
EIBCD3WH	covers only	1



Compact 3
External bend assembly

code	description	pack
EL0BCD3WH	assemblies	1

Components



*RCD/MCB Housing

code	pack
EAHC1WH	1

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



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



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 – 40mm	10



2 gang adjustable
depth box

code	size	pack
EAB2WH	32 – 40mm	5



1 gang accessory plate

code	pack
ESSP1WH	10



2 gang accessory plate

code	pack
ESSP2WH	5

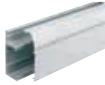


Part M

1 and 2 gang box assemblies with contrasting coloured flush plates are available to comply with the requirements of Part M (DDA).



code	description	pack
ESPM1BU	1 gang - blue plate	1
ESPM1CH	1 gang - charcoal plate	1
ESPM1RD	1 gang - red plate	1
ESPM2BU	2 gang - blue plate	1
ESPM2CH	2 gang - charcoal plate	1
ESPM2RD	2 gang - red plate	1

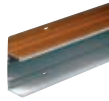
Compact trunking
component chart

		Trunking		
		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 1 or 2 piece fittings	ECC1WH or EHC1WH	ECC2WH or EHC2WH	ECC3WH or EHC3WH
End caps				
Pack	5 1 or 2 piece fittings	EECC1LWH EECC1RWH or EECHC1LWH EECHC1RWH	EECC2LWH EECC2RWH or EECHC2LWH EECHC2RWH	EECC3LWH EECC3RWH or EECHC3LWH EECHC3RWH
Internal bends				
Pack	5 1 or 2 piece fittings	EIBC1WH or EIBHC1WH	EIBC2WH or EIBHC2WH	EIBC3WH or EIBHC3WH
Internal bend assembly				
Pack	1 DATA	ELIBCD1WH	ELIBCD2WH	ELIBCD3WH
Internal bend – cover only				
Pack	1 DATA	EIBCD1WH	EIBCD2WH	EIBCD3WH
External bends				
Pack	5 1 or 2 piece fittings	EXBC1WH or EXBHC1WH	EXBC2WH or EXBHC2WH	EXBC3WH or EXBHC3WH
External bend assembly				
Pack	1 DATA	ELOBCD1WH	ELOBCD2WH	ELOBCD3WH
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

Compact trunking
screened component
chart

Base unit

Pack 1 x 3m



Base extension

Pack 1 x 3m



Main compartment cover

Pack 1 x 3m

**Unscreened



Angled cover

Pack 1 x 3m



Square cover

Pack 1 x 3m



Couplers

Pack 1



End caps

Pack 1

Left or right handed



Standard internal bends

Pack 1



Internal bend assembly

Pack 1

...DATA...



Internal bend cover only

Pack 1

...DATA...



Standard external bends

Pack 1



External bend assembly

Pack 1

...DATA...



Flat angles – up or down

Pack 1



Flat tees

Pack 1



Trunking

Compact 1CS1

130 x 50mm



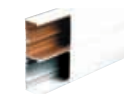
Compact 2CS1

130 x 50mm



Compact 3CS1

181 x 50mm



ETB2CS1WH

ETB2CS1WH

ETB2CS1WH

-

-

EBE1CSWH

ETL1WH**

ETL1WH**

ETL1CSWH

ETL1WH**

ETAC1CSWH

-

-

-

ETSC1CSWH

-

ECC1CS1WH

ECC2CS1WH

ECC3CS1WH

EECC1LHCS1WH

EECC1RHCS1WH

EECC2LHCS1WH

EECC2RHCS1WH

EECC3LHCS1WH

EECC3RHCS1WH

EIBC1CS1WH

EIBC2CS1WH

EIBC3CS1WH

ELIBCD1CS1WH

ELIBCD2CS1WH

ELIBCD3CS1WH

EIBC1CS1WH

EIBC2CS1WH

EIBC3CS1WH

EXBC1CS1WH

EXBC2CS1WH

EXBC3CS1WH

ELOBCD1CS1WH

ELOBCD2CS1WH

ELOBCD3CS1WH

EFAC1UCS1WH

EFAC1DCS1WH

EFAC2UCS1WH

EFAC2DCS1WH

EFAC3UCS1WH

EFAC3DCS1WH

For further advice on screening Compact Flat tees
please call our Technical Team on 01424 856688

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide 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.
BS 7671:2001. For data/voice use only.

1 gang screened accessory box

...DATA...

code	depth	pack
ESSB1SWH*	30mm	1

2 gang screened accessory box

...DATA...

code	depth	pack
ESSB2SWH*	30mm	1

1 gang screened adjustable accessory box

...DATA...

code	depth	pack
EAB1SWH*	32 – 40mm	1

2 gang screened adjustable accessory box

...DATA...

code	depth	pack
EAB2SWH*	32 – 40mm	1

*Supplied complete with earth terminal



Bonding strap

code	pack
ESBS1	1



Steel screening divider

code	pack
ESF1	1

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

Steel screening divider
bonding strap

code	pack
ESF2	1

Sterling Profile systems 1 to 3 are popular and stylish looking perimeter dado and skirting systems that are easy and cost effective to use. The range has been tried and tested within commercial areas over many years.

Product information

- 167 x 50mm
- 3 segregated compartments
- Can be sub-divided
- 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

Data information

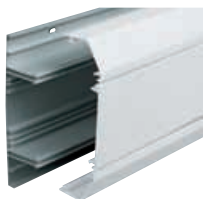
- Standard bend radius 25mm (Cat 6)
- Data fittings available for bend radius up to 50mm
- Compartment can be screened against EMI with no reduction in cable capacity
- Adjustable data box 32-40mm
- Screened data boxes
- Steel screening divider available

Standard colour
WH
WH: White

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 01424 856688.

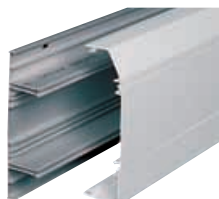


Trunking profiles



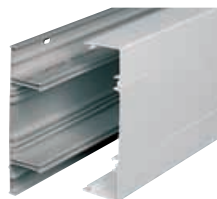
Sterling Profile 1

size
167 x 50mm



Sterling Profile 2

size
167 x 50mm



Sterling Profile 3

code
167 x 50mm

Basic components



Base unit

code	pack
ETB1	4 x 3m



Main compartment cover

code	pack
ETL1WH	8 x 3m



Angled cover

code	pack
ETAC1WH	8 x 3m



Square cover

code	pack
ETSC1WH	8 x 3m



Dividing fillet

code	pack
EDF1	8 x 3m



Cable tray

code	pack
ECT1	8 x 3m



Dividing tray

code	pack
EDF2	8 x 3m

Fittings



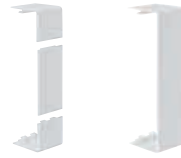
**Profile 1
Coupler**

code	description	pack
ECP1WH	3 piece	5
ECHP1WH	1 piece	5



**Profile 2
Coupler**

code	description	pack
ECP2WH	3 piece	5
ECHP2WH	1 piece	5



**Profile 3
Coupler**

code	description	pack
ECP3WH	3 piece	5
ECHP3WH	1 piece	5



**Profile 1
End cap**

code	description	pack
EECP1WH	3 piece	5
EECHP1WH	1 piece	5
Universal for both LH & RH		



**Profile 2
End cap**

code	description	pack
EECP2LHWH	(left) 3 piece	5
EECP2RHWH	(right) 3 piece	5
EECHP2LHWH	(left) 1 piece	5
EECHP2RHWH	(right) 1 piece	5



**Profile 3
End cap**

code	description	pack
EECP3WH	3 piece	5
EECHP3WH	1 piece	5
Universal for both LH & RH		



**Profile 1
Internal bend**

code	description	pack
EIBP1WH	3 piece	5
EIBHP1WH	1 piece	5



**Profile 2
Internal bend**

code	description	pack
EIBP2WH	3 piece	5
EIBHP2WH	1 piece	5



**Profile 3
Internal bend**

code	description	pack
EIBP3WH	3 piece	5
EIBHP3WH	1 piece	5



code	description	pack
EIBD1WH	1 piece	1



code	description	pack
EIBD2WH	1 piece	1



code	description	pack
EIBD3WH	1 piece	1



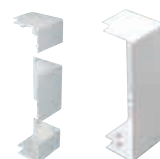
**Profile 1
External bend**

code	description	pack
EXBP1WH	3 piece	5
EXBHP1WH	1 piece	5



**Profile 2
External bend**

code	description	pack
EXBP2WH	3 piece	5
EXBHP2WH	1 piece	5



**Profile 3
External bend**

code	description	pack
EXBP3WH	3 piece	5
EXBHP3WH	1 piece	5



Profile 1 Internal bend assembly	
code	pack
ELIBD1WH	1



Profile 2 Internal bend assembly	
code	pack
ELIBD2WH	1



Profile 3 Internal bend assembly	
code	pack
ELIBD3WH	1



Profile 1 External bend assembly	
code	pack
ELOBD1WH	5



Profile 2 External bend assembly	
code	pack
ELOBD2WH	5



Profile 3 External bend assembly	
code	pack
ELOBD3WH	5



Profile 1 Flat angle – up/down	
code	pack
EFA1WH	5



Profile 2 Flat angle – upward	
code	pack
EFA2UWH	1



Profile 2 Flat angle – downward	
code	pack
EFA2DWH	1



Profile 3 Flat angle – up/down	
code	pack
EFA3WH	1



Profile 1 Flat tee	
code	pack
EFT1WH	1



Profile 3 Flat tee	
code	pack
EFT3WH	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.

Sterling Data Flat angle and tee

Sterling Profile 1 fabricated CAT 6 data Flat angle's and Flat tee's are available as follows:

Profile 1. Flat angle up/down Code: EFA1SBWH

Profile 1. Flat tee up/down Code: EFT1GTWH

For other Sterling profiles, please contact out Technical Team on 01424 856688.

Components

***RCD/MCB Housing**

code	pack
EAHC1WH	1

**Segregated flush back box
280 x 150mm****Steel**

code	depth	pack
ESFBB1	35mm	1

**Main crossover bridge**

code	pack
EMCB1	5

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex

**Angled crossover bridge**

code	pack
EACB1	5

**Square crossover bridge**

code	pack
ESCB1	5

**Angled cable retainer**

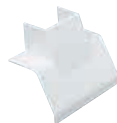
code	pack
EACR1	10

**Main cable retainer**

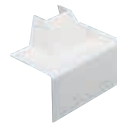
code	pack
EMCR1	10

**Angled mini trunking
adaptor MMT2**

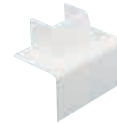
code	pack
EATA2	5

**Angled mini trunking
adaptor MMT4**

code	pack
EATA4	5

**Square mini trunking
adaptor MMT2**

code	pack
ESTA2	5

**Square mini trunking
adaptor MMT4**

code	pack
ESTA4	5

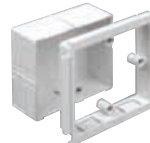
Boxes and plates

**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 – 40mm	10

**2 gang adjustable
depth box**

code	size	pack
EAB2WH	32 – 40mm	5

**1 gang accessory plate**

code	pack
ESSP1WH	10

**2 gang accessory plate**

code	pack
ESSP2WH	5

Part M

1 and 2 gang box assemblies with contrasting coloured flush plates are available to comply with the requirements of Part M (DDA).



code	description	pack
ESPM1BU	1 gang - blue plate	1
ESPM1CH	1 gang - charcoal plate	1
ESPM1RD	1 gang - red plate	1
ESPM2BU	2 gang - blue plate	1
ESPM2CH	2 gang - charcoal plate	1
ESPM2RD	2 gang - red plate	1

Sterling Profile 1, 2 and 3
component chart

Base unit

Pack 4 x 3m

Main compartment cover

Pack 8 x 3m

Angled cover

Pack 8 x 3m

Square cover

Pack 8 x 3m

Couplers

Pack 5
3 piece or 1

End caps

Pack 5
Left or right handed
3 piece or 1 piece

Internal bend

Pack 5
3 piece or 1 pieceInternal bend
assemblies

Pack 1

Internal bend
covers only

Pack 1

External bends

Pack 5
3 piece or 1 pieceExternal bend
assemblies

Pack 1

Flat angles up or down

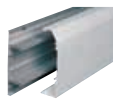
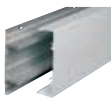
Pack 1

Flat tees up or down

Pack 1

Flat angles
up or downPack 1
gussetedFlat tees
up or downPack 1
gusseted

3 compartment

Profile 1
167 x 50mmProfile 2
167 x 50mmProfile 3
167 x 50mm

ETB1 ETB1 ETB1

ETL1WH ETL1WH ETL1WH

2 x ETAC1WH ETAC1WH –

– ETSC1WH 2 x ETSC1WH

ECP1WH or
ECHP1WH ECP2WH or
ECHP2WH ECP3WH or
ECHP3WHEECP1WH or
EECHP1WH EECP2LHWH
EECP2RHWH or
EECHP2LHWH
EECHP2RHWH EECP3WH or
EECHP3WHEIBP1WH or
EIBHP1WH EIBP2WH or
EIBHP2WH EIBP3WH or
EIBHP3WH

ELIBD1WH ELIBD2WH ELIBD3WH

EIBD1WH EIBD2WH EIBD3WH

EXBP1WH or
EXBHP1WH EXBP2WH or
EXBHP2WH EXBP3WH or
EXBHP3WH

ELOBD1WH ELOBD2WH ELOBD3WH

EFA1WH EFA2UWH
EFA2DWH EFA3WH

EFT1WH † EFT3WH

EFA1SBWH – –

EFT1GT – –

Sterling Profile 1, 2 and 3
screened component
chart

Screening - see next page for component chart

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide 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.
BS 7671:2001. For data/voice use only.

Screened compartments key to coding

CS1 = screening in compartment 1

CS3 = screening in compartment 3

CS13 = screening in compartments 1 and 3

1 gang screened accessory box

code	depth	pack
ESSB1SWH*	30mm	1

2 gang screened accessory box

code	depth	pack
ESSB2SWH*	30mm	1

1 gang screened adjustable accessory box

code	depth	pack
EAB1SWH*	32 – 40mm	1

2 gang screened adjustable accessory box

code	depth	pack
EAB2SWH*	32 – 40mm	1

*Supplied complete with earth terminal

Steel screening divider

code	pack
ESF1	1

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

Bonding strap

code	pack
ESBS1	1

Steel screening divider
bonding strap

code	pack
ESF2	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.

Sterling Profile 1, 2 and 3
screened component
chart**Base unit**

Pack 1 x 3m

Main compartment cover

Pack 1 x 3m

*unscreened 8 x 3m

Angled cover

Pack 1 x 3m

*unscreened 8 x 3m

Square cover

Pack 1 x 3m

*unscreened 8 x 3m

Couplers

Pack 1

End caps

Pack 1

left or right handed

Internal bends

Pack 1

**Internal bend
assemblies**

...DATA...

Pack 1

**Internal bend
covers only**

...DATA...

Pack 1

External bends

Pack 1

**Data external bend
assemblies**

...DATA...

Pack 1

Flat angles

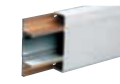
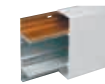
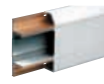
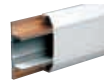
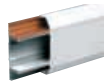
Pack 1

Upward or downward

Flat tees

Pack 1

† See Flat Tee panel

3 compartmentProfile 1 CS1 or
Profile 1 CS3
167 x 50mmProfile 1 CS13
167 x 50mmProfile 2 CS1
167 x 50mmProfile 2 CS3
167 x 50mmProfile 2 CS13
167 x 50mmProfile 3 CS1 or
Profile 3 CS3
167 x 50mmProfile 3 CS13
167 x 50mm

ETB1CS1	ETB1CS13	ETB1CS1	ETB1CS1	ETB1CS13	ETB1CS1	ETB1CS13
–	–	–	–	–	–	–
*ETL1WH	*ETL1WH	*ETL1WH	*ETL1WH	*ETL1WH	*ETL1WH	*ETL1WH
ETAC1CSWH	2 x ETAC1CSWH	ETAC1CSWH	–	ETAC1CSWH	–	–
*ETAC1WH	–	–	*ETAC1WH	–	–	–
–	–	–	ETSC1CSWH	ETSC1CSWH	ETSC1CSWH	2x ETSC1CSWH
–	–	*ETSC1WH	–	–	*ETSC1WH	–
ECP1CS1WH	ECP1CS13WH	ECP2CS1WH	ECP2CS3WH	ECP2CS13WH	ECP3CS1WH	2x ECP3CS13WH
EECP1LHCS1WH	EECP1CS13WH	EECP2LHCS1WH	EECP2LHCS3WH	EECP2LHCS13WH	EECP3LHCS1WH	EECP3CS13WH
EECP1RHCS1WH		EECP2RHCS1WH	EECP2RHCS3WH	EECP2RHCS13WH	EECP3RHCS1WH	
EIBP1CS1WH	EIBP1CS13WH	EIBP2CS1WH	EIBP2CS3WH	EIBP2CS13WH	EIBP3CS1WH	EIBP3CS13WH
ELIBD1CS1WH	ELIBD1CS13WH	ELIBD2CS1WH	ELIBD2CS3WH	ELIBD2CS13WH	ELIBD3CS1WH	ELIBDF3CS13WH
EIBD1CS1WH	EIBD1CS13WH	EIBDCS1WH	EIBD2CS3WH	EIBD2CS13WH	EIBD3CS1WH	EIBD3CS13WH
EXBP1CS1WH	EXBP1CS13WH	EXBP2CS1WH	EXBP2CS3WH	EXBP2CS13WH	EXBP3CS1WH	EXBP3CS13WH
ELOBD1CS1WH	ELOBD1CS13WH	ELOBD2CS1WH	ELOBD2CS3WH	ELOBD2CS13WH	ELOBD3CS1WH	ELOBD3CS13WH
EFA1UCS1WH or EFA1DCS1WH	EFA1CS13WH	EFA2UCS1WH or EFA2DCS1WH	EFA2UCS3WH or EFA2DCS3WH	EFA2CUS13WH or EFA2DCS13WH	EFA3CUS1WH or EFA3DCS1WH	EFA3CS13WH
†	EFT1CS13WH	†	†	†	†	EFT3CS13WH

† Flat tees

Except where Profile 1 and Profile 3 are screened in both compartments, (1 and 3) we would advise you to contact our Technical Team to ascertain the correct specification for screened flat tees.

Sterling Profile systems 4 to 13 are perimeter dado and skirting trunking systems that provide increased cable capacity with large multi compartments that can be subdivided to carry a greater range of services.



Product information

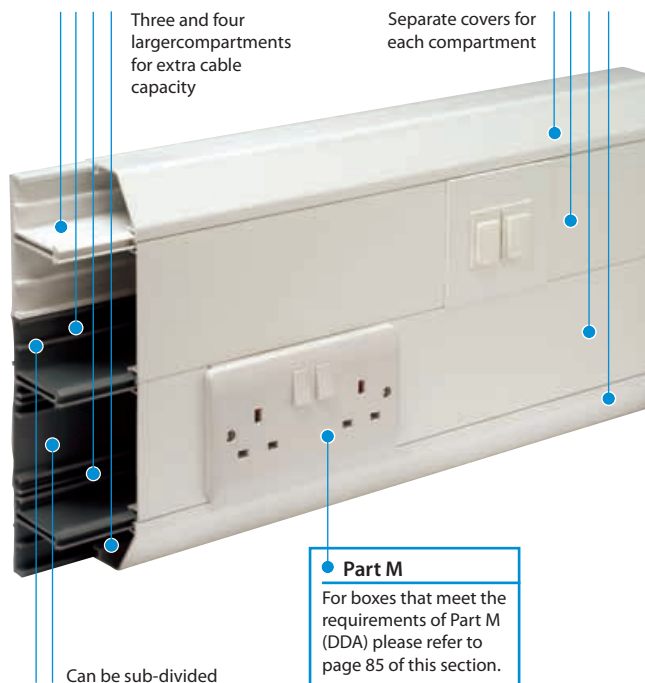
- Profile 4 and 5 = 218 x 50mm
- Profile 11, 12 and 13 = 255 x 50mm
- Profile 6 = 269 x 50mm
- 3 and 4 large, segregated compartments
- Can be sub-divided
- Suitable for dado and skirting application
- Can be fed from larger trunking systems for increased cable distribution
- Boxes available to comply with Part M (DDA)
- Comprehensive range of flush power and data accessories

Data information

- Standard bend radius 25mm (Cat 6)
- Data fittings available for bend radius up to 50mm
- Compartment can be screened against EMI with no reduction in cable capacity
- Adjustable data box 32-40mm
- Screened data boxes
- Steel screening divider available

Standard colour
WH
WH: White

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 01424 856688.

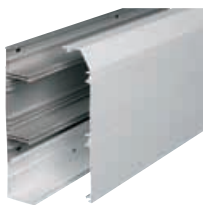


Part M

For boxes that meet the requirements of Part M (DDA) please refer to page 85 of this section.



Trunking profiles



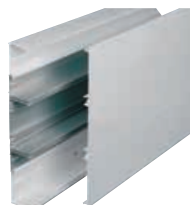
Sterling Profile 4

size
218 x 50mm



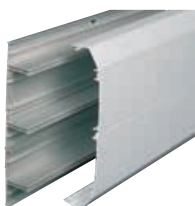
Sterling Profile 5

size
218 x 50mm



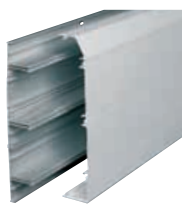
Sterling Profile 6

size
269 x 50mm



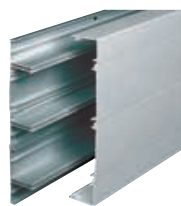
Sterling Profile 11

size
255 x 50mm



Sterling Profile 12

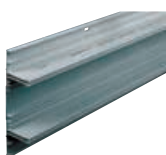
size
255 x 50mm



Sterling Profile 13

size
255 x 50mm

Basic components



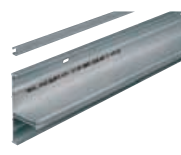
Base unit

code	pack
ETB1	4 x 3m



Base extension

code	pack
EBE1WH	4 x 3m



Extendable base

code	pack
EEB1	4 x 3m

Basic components



Main compartment cover
code pack
ETL1WH 8 x 3m



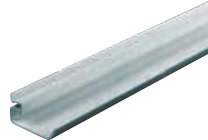
Angled cover
code pack
ETAC1WH 8 x 3m



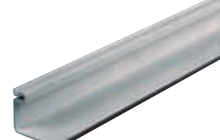
Square cover
code pack
ETSC1WH 8 x 3m



Dividing fillet
code pack
EDF1 8 x 3m



Cable tray
code pack
ECT1 8 x 3m



Dividing tray
code pack
EDF2 8 x 3m

Fittings



Profile 4 Coupler
code pack
ECP4WH 1



Profile 5 Coupler
code pack
ECP5WH 1



Profile 6 Coupler
code pack
ECP6WH 1



Profile 11 Coupler
code pack
*ECP1WH plus *ELC1WH 1



Profile 12 Coupler
code pack
*ECP2WH plus *ELC1WH 1



Profile 13 Coupler
code pack
*ECP3WH plus *ELC1WH 1

***4 Compartment fittings**

When ordering couplers, end caps or bends for 4-compartment systems, you must request both component parts i.e. Sterling Profile Coupler = ECP1WH PLUS ELC1WH.



Profile 4 End cap
code pack
EECP4LHWH 1
EECP4RHWH 1



Profile 5 End cap
code pack
EECP5LHWH 1
EECP5RHWH 1



Profile 6 End cap
code pack
EECP6WH 1
Universal for both LH & RH



Profile 11 End cap
code pack
*EECP1WH plus *ELEC1WH 1
Universal for both LH & RH



Profile 12 End cap
code pack
*EECP2LHWH plus *ELEC3WH 1
*EECP2RHWH plus *ELEC3WH 1



Profile 13 End cap
code pack
*EECP3WH plus *ELEC3WH 1
Universal for both LH & RH

LH = Left hand
RH = Right hand



Profile 4
Internal bend

code	pack
EIBP4WH	1



Profile 5
Internal bend

code	pack
EIBP5WH	1



Profile 6
Internal bend

code	pack
EIBP6WH	1



Profile 11
Internal bend

code	pack
*EIBP1WH plus *ELIB1WH	1



Profile 12
Internal bend

code	pack
*EIBP2WH plus *ELIB1WH	1



Profile 13
Internal bend

code	pack
*EIBP3WH plus *ELIB1WH	1

*4 Compartment fittings

When ordering couplers, end caps or bends for 4-compartment systems, you must request both component parts i.e. Sterling Profile Coupler = ECP1WH PLUS ELC1WH.



Profile 4
Internal bend assemblies

code	pack
ELIBD4WH	1



Profile 5
Internal bend assemblies

code	pack
ELIBD5WH	1



Profile 6
Internal bend assemblies

code	pack
ELIBD6WH	1



Profile 11
Internal bend assemblies

code	pack
*ELIBD1WH plus *ELIBD10WH	1



Profile 12
Internal bend assemblies

code	pack
*ELIBD2WH plus *ELIBD10WH	1



Profile 13
Internal bend assemblies

code	pack
*ELIBD3WH plus *ELIBD10WH	1



Profile 4
Internal bend cover

code	pack
EIBD4WH	1



Profile 5
Internal bend cover

code	pack
EIBD5WH	1



Profile 6
Internal bend cover

code	pack
EIBD6WH	1



Profile 11
Internal bend cover

code	pack
*ELIBD1WH plus *EIBD10WH	1



Profile 12
Internal bend cover

code	pack
*ELIBD2WH plus *EIBD10WH	1



Profile 13
Internal bend cover

code	pack
*ELIBD3WH plus *EIBD10WH	1



Profile 4
External bend

code	pack
EXBP4WH	1



Profile 5
External bend

code	pack
EXBP5WH	1



Profile 6
External bend

code	pack
EXBP6WH	1



Profile 11
External bend

code	pack
*EXBP1WH plus *ELOB1WH	1



Profile 12
External bend

code	pack
*EXBP2WH plus *ELOB1WH	1



Profile 13
External bend

code	pack
*EXBP3WH plus *ELOB1WH	1

*4 Compartment fittings

When ordering couplers, end caps or bends for 4-compartment systems, you must request both component parts i.e. Sterling Profile Coupler = ECP1WH PLUS ELC1WH.



Profile 4
External bend assemblies

code	pack
ELOBD4WH	1



Profile 5
External bend assemblies

code	pack
ELOBD5WH	1



Profile 6
External bend assemblies

code	pack
ELOBD6WH	1



Profile 11
External bend assemblies

code	pack
*ELOBD1WH plus *ELOBD10WH	1



Profile 12
External bend assemblies

code	pack
*ELOBD2WH plus *ELOBD10WH	1



Profile 13
External bend assemblies

code	pack
*ELOBD3WH plus *ELOBD10WH	1



Profile 4
Flat angle – up

code	pack
EFA4UWH	1



Profile 4
Flat angle – down

code	pack
EFA4DWH	1



Profile 5
Flat angle – up

code	pack
EFA5UWH	1



Profile 5
Flat angle – down

code	pack
EFA5DWH	1



Profile 6
Flat angle – up/down

code	pack
EFA6WH	1



Profile 11
Flat angle – up/down

code	pack
EFA11UWH	1



Profile 12
Flat angle – up

code	pack
EFA12UWH	1



Profile 12
Flat angle – down

code	pack
EFA12DWH	1



Profile 13
Flat angle – up/down

code	pack
EFA13WH	1



Profile 6
Flat tee – up/down

code	pack
EFT6WH	1



Profile 11
Flat tee – up/down

code	pack
EFT11WH	1



Profile 13
Flat tee – up/down

code	pack
EFT13WH	1

Sterling Profiles 4, 5 and 12 flat tees

Flat tees for Sterling Profiles 4, 5 and 12 are not evenly handed and Marshall-Tufflex recommends that ordering of flat tees for these profiles is done with the advice of the Technical Team on 01424 856688.

Components

***RCD/MCB Housing**

code	pack
EABC1WH	1

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex

**Angled crossover bridge**

code	pack
EACB1	5

**Square crossover bridge**

code	pack
ESCB1	5

**Main crossover bridge**

code	pack
EMCB1	5

**Angled cable retainer**

code	pack
EACR1	10

**Main cable retainer**

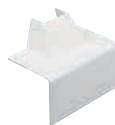
code	pack
EMCR1	10

**Angled mini trunking adaptor MMT2**

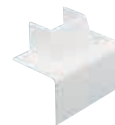
code	pack
EATA2	5

**Angled mini trunking adaptor MMT4**

code	pack
EATA4	5

**Square mini trunking adaptor MMT2**

code	pack
ESTA2	5

**Square mini trunking adaptor MMT4**

code	pack
ESTA4	5

Boxes and plates

**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 – 40mm	10

**2 gang adjustable depth box**

code	size	pack
EAB2WH	32 – 40mm	5

**1 gang accessory plate**

code	pack
ESSP1WH	10

**2 gang accessory plate**

code	pack
ESSP2WH	5

Part M

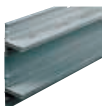
1 and 2 gang box assemblies with contrasting coloured flush plates are available to comply with the requirements of Part M (DDA).



code	description	pack
ESPM1BU	1 gang - blue plate	1
ESPM1CH	1 gang - charcoal plate	1
ESPM1RD	1 gang - red plate	1
ESPM2BU	2 gang - blue plate	1
ESPM2CH	2 gang - charcoal plate	1
ESPM2RD	2 gang - red plate	1

Sterling Profile 4 to 13
component chart**Base unit**

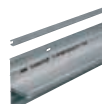
Pack 4 x 3m

**Base extension**

Pack 8 x 3m

**Extendable base**

Pack 4 x 3m

**Main compartment cover**

Pack 8 x 3m

**Angled cover**

Pack 8 x 3m

**Square cover**

Pack 1 x 3m

**Couplers**

Pack 5

**End caps**

Pack 5

Left or right handed

**Internal bend**

Pack 5

**Internal bend assemblies**

...DATA...

Pack 1

**Internal bend covers only**

...DATA...

Pack 1

**External bends**

Pack 5

**External bend assemblies**

...DATA...

Pack 1

**Flat angles up or down**

Pack 1

**Flat tees up or down**

Pack 1

† Please refer to Flat Tee information on opposite page

**3 compartment****Profile 4**
218 x 50mm**Profile 5**
218 x 50mm**Profile 6**
269 x 50mm**Profile 11**
255 x 50mm**Profile 12**
255 x 50mm**Profile 13**
255 x 50mm

Profile 4	Profile 5	Profile 6	Profile 11	Profile 12	Profile 13
ETB1	ETB1	ETB1	ETB1	ETB1	ETB1
EBE1WH	EBE1WH	2 x EBE1WH	–	–	–
–	–	–	EEB1	EEB1	EEB1
2 x ETL1WH	2 x ETL1WH	3 x ETL1WH	2 x ETL1WH	2 x ETL1WH	2 x ETL1WH
ETAC1WH	–	–	2 x ETAC1WH	ETAC1WH	–
–	ETSC1WH	–	–	ETSC1WH	2 x ETSC1WH
ECP4WH	ECP5WH	ECP6WH	ECP1WH+ ELC1WH	ECP2WH+ ELC1WH	ECP3WH+ ELC1WH
EECP4LHWH EECP4RHWH	EECP5LHWH EECP5RHWH	EECP6WH	EECP1WH+ ELEC3WH	EECP2LHWH+ ELEC3WH or EECP2RHWH+ ELEC3WH	EECP3WH+ ELEC3WH
EIBP4WH	EIBP5WH	EIBP6WH	EIBP1WH+ ELIB1WH	EIBP2WH+ ELIB1WH	EIBP3WH+ ELIB1WH
ELIBD4WH	ELIBD5WH	ELIBD6WH	ELIBD1WH+ ELIBD10WH	ELIBD2WH+ ELIBD10WH	ELIBD3WH+ ELIBD10WH
EIBD4WH	EIBD5WH	EIBD6WH	EIBD1WH+ EIBD10WH	EIBD2WH+ EIBD10WH	EIBD3WH+ EIBD10WH
EXBP4WH	EXBP5WH	EXBP6WH	EXBP1WH+ ELOB1WH	EXBP2WH+ ELOB1WH	EXBP3WH+ ELOB1WH
ELOBD4WH	ELOBD5WH	ELOBD6WH	ELOBD1WH+ ELOBD10WH	ELOBD2WH+ ELOBD10WH	ELOBD3WH+ ELOBD10WH
EFA4UWH EFA4DWH	EFA5UWH EFA5DWH	EFA6WH	EFA11WH	EFA12UWH EFA12DWH	EFA13WH
†	†	EFT6WH	EFT11WH	†	EFT13WH

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide 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.
BS 7671:2001. For data/voice use only.

1 gang screened accessory box

DATA

code	depth	pack
ESSB1SWH*	30mm	1

2 gang screened accessory box

DATA

code	depth	pack
ESSB2SWH*	30mm	1

1 gang screened adjustable accessory box

DATA

code	depth	pack
EAB1SWH*	32 – 40mm	1

2 gang screened adjustable accessory box

DATA

code	depth	pack
EAB2SWH*	32 – 40mm	1

*Supplied complete with earth terminal

**Steel screening divider**

code	pack
ESF1	1

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

**Bonding strap**

code	pack
ESBS1	1

**Steel screening divider bonding strap**

code	pack
ESF2	1

Screened compartments key to coding

CS1 = screening in compartment 1
CS3 = screening in compartment 3
CS13 = screening in compartments 1 and 3

Sterling Profile 4 to 13 screened component chart**Base unit**

Pack	1 x 3m
------	--------

Base extension

Pack	1 x 3m
**unscreened	4 x 3m

Main compartment cover

Pack	1 x 3m
**unscreened	8 x 3m

Angled cover

Pack	1 x 3m
**unscreened	8 x 3m

Square cover

Pack	1 x 3m
**unscreened	8 x 3m

Couplers

Pack	1
------	---

End caps

Pack	1
left and right handed	

Internal bend

Pack	1
------	---

Internal bend assemblies

DATA

Pack	1
------	---

Internal bend covers only

DATA

Pack	4 x 3m
------	--------

External bends

Pack	1
------	---

External bend assemblies

DATA

Pack	1
------	---

Flat angles

Pack	1
Upward and downward	

Flat tees

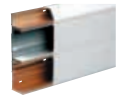
Pack	1
† See flat tee panel	

3 compartment

Profile 4 CS1
218 x 50mm

Profile 4 CS3
218 x 50mm

Profile 4 CS13
218 x 50mm



ETB1CS1

ETB1CS1

ETB1CS1

–

EBE1CSWH

EBE1CSWH

EBE1WH**

–

–

–

ETL1CSWH

ETL1CSWH

2 x ETL1WH**

ETL1WH**

ETL1WH**

ETAC1CSWH

–

ETAC1CSWH

–

ETAC1WH**

–

–

–

–

–

–

–

ECP4CS1WH

ECP4CS3WH

ECP4CS13WH

EECP4LHCS1WH

EECP4LHCS3WH

EECP4LHCS13WH

EECP4RHCS1WH

EECP4RHCS3WH

EECP4RHCS13WH

EIBP4CS1WH

EIBP4CS3WH

EIBP4CS13WH

ELIBD4CS1WH

ELIBD4CS3WH

ELIBD4CS13WH

EIBD4CS1WH

EIBD4CS3WH

EIBD4CS13WH

EXBP4CS1WH

EXBP4CS3WH

EXBP4CS13WH

ELOBD4CS1WH

ELOBD4CS3WH

ELOBD4CS13WH

EFA4UCS1WH

EFA4UCS3WH

EFA4UCS13WH

or EFA4DCS1WH

or EFA4DCS3WH

or EFA4DCS13WH

†

†

†

† Flat tees

For more information on the specification and screening of these Flat Tees, we would advise you to contact our Technical Team on 01424 856688.

XL Trunking sizes 201 to 203 comprise a range of deep, large capacity 3 compartment, segregated containment systems. These systems can accommodate integral lighting units.

Product information

- 220 x 65mm
- 1 full and 2 half size compartments
- XL 201 for dado installation only
- 3 deep segregated compartments
- Can be sub-divided
- 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

Data information

- Can accommodate Cat 6 data cables*
- Compartments can be screened against EMI with no reduction in cable capacity
- Adjustable data box 32-50mm
- Screened data boxes
- Steel screening divider available

Standard colour
WH
WH: White

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 01424 856688.

Dividing fillet option for centre compartment

Three deep compartments for extra cable capacity

Three separate covers

Part M

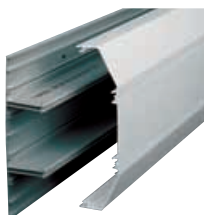
For boxes that meet the requirements of Part M (DDA) please refer to page 90 of this section.



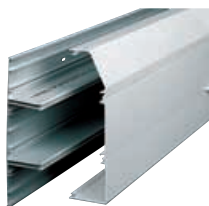
*Data fittings

For Cat 6 and 6a fittings please contact the Technical Team on 01424 856688.

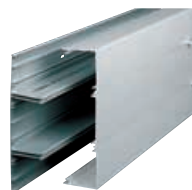
Trunking profiles



XL 201
size
220 x 65mm



XL 202
size
220 x 65mm

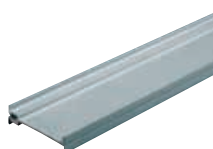


XL 203
size
220 x 65mm

Basic components



Base unit
code pack
ELTB200 4 x 3m



Dividing fillet
code pack
ELDF200 8 x 3m



Main compartment cover
code pack
ETL1WH 8 x 3m



Angled cover
code pack
ELAC200WH 8 x 3m



Square cover
code pack
ELSC200WH 8 x 3m



Fittings



**XL 201
Coupler**

code	pack
EC201WH	5



**XL 202
Coupler**

code	pack
EC202WH	5



**XL 203
Coupler**

code	pack
EC203WH	5



**XL 201
End cap**

code	pack
EEC201WH	5
Universal for both LH & RH	



**XL 202
End cap**

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



**XL 203
End cap**

code	pack
EEC203WH	5
Universal for both LH & RH	



**XL 201
Internal bend**

code	pack
EIB201WH	5



**XL 202
Internal bend**

code	pack
EIB202WH	5



**XL 203
Internal bend**

code	pack
EIB203WH	5



**XL 201
External bend**

code	pack
EXB201WH	5



**XL 202
External bend**

code	pack
EXB202WH	5



**XL 203
External bend**

code	pack
EXB203WH	5



**XL 201
Flat angle – up/down**

code	pack
EFA201WH	1



**XL 202
Flat angle – upward**

code	pack
EFA202UWH	1



**XL 202
Flat angle – downward**

code	pack
EFA202DWH	1



**XL 203
Flat angle – up/down**

code	pack
EFA203WH	1

Use with ETAC1WH cover only to avoid reduction of internal capacity

Fittings



XL 201

Flat tee - up/down

code	pack
EFT201WH	1



XL 203

Flat tee - up/down

code	pack
EFT203	1

Note: For information on XL trunking flat tees see opposite page

Components



*RCD/MCB Housing

code	pack
EAHC3WH	1

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex

Boxes and plates



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 – 50mm	10



2 gang adjustable depth box

code	size	pack
EAB2WH	32 – 50mm	5



1 gang accessory plate

code	pack
ESSP1WH	10



2 gang accessory plate

code	pack
ESSP2WH	5




Part M

1 and 2 gang box assemblies with contrasting coloured flush plates are available to comply with the requirements of Part M (DDA).



code	description	pack
ESPM1BU	1 gang - blue plate	1
ESPM1CH	1 gang - charcoal plate	1
ESPM1RD	1 gang - red plate	1
ESPM2BU	2 gang - blue plate	1
ESPM2CH	2 gang - charcoal plate	1
ESPM2RD	2 gang - red plate	1

XL Trunking 201 to 203
component chart

		3 Compartment		
		XL 201 220 x 65mm	XL 202 220 x 65mm	XL 203 220 x 65mm
				
Base unit				
Pack	4 x 3m	ELTB200	ELTB200	ELTB200
Main compartment cover				
Pack	8 x 3m	ETL1WH	ETL1WH	ETL1WH
Angled cover				
Pack	8 x 3m	2 x ELAC200WH	ELAC200WH	—
Square cover				
Pack	8 x 3m	—	ELSC200WH	2 x ELSC200WH
Couplers				
Pack	5	E201WH	E202WH	E203WH
End caps				
Pack	5 left or right hand	EEC201WH	EEC202LHWH EEC202RHWH	EEC203WH
Internal bends				
Pack	5	EIB201SG	EIB202SG	EIB203SG
External bends				
Pack	5	EXB201WH	EXB202WH	EXB203WH
Flat angles				
Pack	1 upward or downward	EFA201WH	EFA202UWH EFA202DWH	EFA203WH
Flat tees				
Pack	1	EFT 201WH	†	EFT203WH
† please refer to Flat Tee information				

† XL 202 trunking flat tees

Where profiles have one angled cover and one square cover, as with XL 202, 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 XL 201 tee remove the angled bottom cover and replace with square cover.
- Downward tee – select XL 203 tee remove the square top cover and replace with angled cover.

XL Trunking 201 to 203 screened component chart

Base unit

Pack	1 x 3m
------	--------

Main compartment cover

Pack	1 x 3m
**unscreened	8 x 3m

Angled cover

Pack	1 x 3m
**unscreened	8 x 3m

Square cover

Pack	1 x 3m
**unscreened	8 x 3m

Couplers

Pack	1
------	---

End caps

Pack	1
Left or right hand	

Internal bends

Pack	1
------	---

External bends


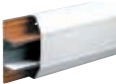
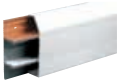
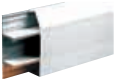
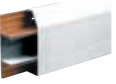
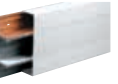

Pack	1
------	---

Flat angles

Pack	1
Upward or downward	
† Please refer to Flat Angle and Flat Tee information	

Flat tees

Pack	1
† Please refer to Flat Angle and Flat Tee information	

3 Compartment						
XL 201 CS1 or CS3 220 x 65mm	XL 201 CS13 220 x 65mm	XL 202 CS1 220 x 65mm	XL 202 CS3 220 x 65mm	XL 202 CS13 220 x 65mm	XL 203 CS1 or CS3 220 x 65mm	XL 203 CS13 220 x 65mm
						
ELTB200CS1	ELTB200CS13	ELTB200CS1	ELTB200CS1	ELTB200CS13	ELTB200CS1	ELTB200CS13
—	—	—	—	—	—	—
ETL1WH**	ETL1WH**	ETL1WH**	ETL1WH**	ETL1WH**	ETL1WH**	ETL1WH**
ELAC200CSWH	2 x ELAC200CSWH	ELAC200CSWH	—	ELAC200CSWH	—	—
ELAC200WH**	—	—	ELAC200WH**	—	—	—
—	—	—	ELSC200CSWH	ELSC200CSWH	ELSC200CSWH	2 x ELSC200CSWH
—	—	ELSC200WH**	—	—	ELSC200WH**	—
EC201CS1WH	EC201CS13WH	EC202CS1WH	EC202CS3WH	EC202CS13WH	EC203CS1WH	EC203CS13WH
EEC201LHCS1WH	EEC201CS13WH	EEC202LHCS1WH	EEC202LHCS3WH	EEC202LHCS13WH	EEC203LHCS1WH	EEC203CS13WH
EEC201RHCS1WH	—	EEC202RHCS1WH	EEC202RHCS3WH	EEC202RHCS13WH	EEC203RHCS1WH	—
EIB201CS1WH	EIB201CS13WH	EIB202CS1WH	EIB202CS3WH	EIB202CS13WH	EIB203CS1WH	EIB203CS13WH
EXB201CS1WH	EXB201CS13WH	EXB202CS1WH	EXB202CS3WH	EXB202CS13WH	EXB203CS1WH	EXB203CS13WH
†	EFA201CS13WH	†	†	EFA202UCS13WH EFA202DCS13WH	†	EFA203CS13WH
†	EFT201CS13WH	†	†	†	†	EFT203CS13WH

† Flat angles and flat tees

For more information on the specification and screening of flat angles and flat tees, we would advise you to contact our Technical Team on 01424 856688.

Screened compartments key to coding

CS1 = screening in compartment 1
CS3 = screening in compartment 3
CS13 = screening in compartments 1 and 3

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide 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.
BS 7671:2001. For data/voice use only.

1 gang screened accessory box

code	depth	pack
ESSB1SWH*	30mm	1

2 gang screened accessory box

code	depth	pack
ESSB2SWH*	30mm	1

1 gang screened adjustable depth box

code	depth	pack
EAB1SWH*	32 – 50mm	1

2 gang screened adjustable depth box

code	depth	pack
EAB2SWH*	32 – 50mm	1

*Supplied complete with earth terminal



Steel screening divider

code	pack
ESF1	1

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



Bonding strap

code	pack
ESBS1	1



Steel screening divider bonding strap

code	pack
ESF2	1

XL Trunking sizes 211 to 213 comprises a range of deep, large capacity, 4-compartment, segregated containment systems with facilities for adding further full-size segregated compartments. This system can accommodate integral lighting units.

Product information

- 308 x 65mm
- 2 full and 2 half size compartments
- 4 deep segregated compartments
- Can be sub-divided
- 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

Data information

- Can accommodate Cat 6 data cables*
- Compartments can be screened against EMI with no reduction in cable capacity
- Adjustable data box 32-50mm
- Screened data boxes
- Steel screening divider available

Standard colour
WH
WH: White

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 01424 856688.



Dividing fillet option for centre compartments

Four deep compartments for extra cable capacity

Four separate covers

Part M

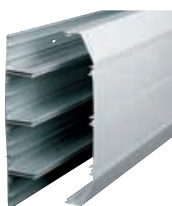
For boxes that meet the requirements of Part M (DDA) please refer to page 95 of this section.



*Data fittings

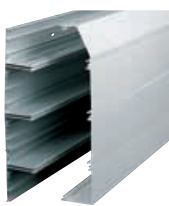
For Cat 6 and 6a fittings please contact the Technical Team on 01424 856688.

Trunking profiles



XL 211

size
308 x 65mm



XL 212

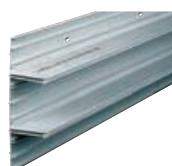
size
308 x 65mm



XL 213

size
308 x 65mm

Basic components



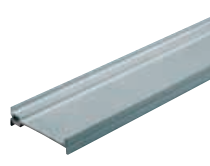
Base unit

code	pack
ELTB200	4 x 3m



Extendable base

code	pack
ELEB200	4 x 3m



Dividing fillet

code	pack
ELDF200	8 x 3m



Main compartment cover

code	pack
ETL1WH	8 x 3m



Angled cover

code	pack
ELAC200WH	8 x 3m



Square cover

code	pack
ELSC200WH	8 x 3m



XL 211 – Coupler

code	pack
EC201WH plus ELLCC200WH	5



XL 212 – Coupler

code	pack
EC202WH plus ELLCC200WH	5



XL 213 – Coupler

code	pack
EC203WH plus ELLCC200WH	5

4-compartment fittings

When ordering couplers, end caps or bends for 4-compartment systems, you must request both component parts i.e. XL211 Coupler = EC201WH PLUS ELLCC200WH.



XL 211 – End cap

code	pack
EEC201WH plus ELLEC200WH	5
Universal for both LH & RH	



XL 212 – End cap

code	pack
EEC202LHWH (Left hand)	5
EEC202RHWH (Right hand)	5
plus ELLEC200WH	



XL 213 – End cap

code	pack
EEC203WH plus ELLEC200WH	5
Universal for both LH & RH	



XL 211 – Internal bend

code	pack
EIB201WH plus ELLIB200WH	5



XL 212 – Internal bend

code	pack
EIB202WH plus ELLIB200WH	5



XL 213 – Internal bend

code	pack
EIB203WH plus ELLIB200WH	5



XL 211 – External bend

code	pack
EXB201WH plus ESLEB200WH	5



XL 212 – External bend

code	pack
EXB202WH plus ESLEB200WH	5



XL 213 – External bend

code	pack
EXB203WH plus ESLEB200WH	5



XL 211 Flat angle – up/down

code	pack
EFA211WH	1



XL 212 Flat angle – upward

code	pack
EFA212UWH	1



XL 212 Flat angle – downward

code	pack
EFA212DWH	1



XL 213 Flat angle – up/down

code	pack
EFA213WH	1

Fittings



Flat tee XL 211 – up/down

code	pack
EFT211WH	1



Flat tee XL 213 – up/down

code	pack
EFT213WH	1

Components



*RCD/MCB Housing

code	pack
EAHC3WH	1

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex

Boxes and plates



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 – 50mm	10



2 gang adjustable depth box

code	depth	pack
EAB2WH	32 – 50mm	5



1 gang accessory plate

code	pack
ESSP1WH	10



2 gang accessory plate

code	pack
ESSP2WH	5

Part M

1 and 2 gang box assemblies with contrasting coloured flush plates are available to comply with the requirements of Part M (DDA).



code	description	pack
ESPM1BU	1 gang - blue plate	1
ESPM1CH	1 gang - charcoal plate	1
ESPM1RD	1 gang - red plate	1
ESPM2BU	2 gang - blue plate	1
ESPM2CH	2 gang - charcoal plate	1
ESPM2RD	2 gang - red plate	1

XL 211 to 213
component chart**Base unit**

Pack 4 x 3m

Extendable base

Pack 4 x 3m

Main compartment cover

Pack 8 x 3m

Angled cover

Pack 8 x 3m

Square cover

Pack 8 x 3m

Couplers

Pack 5

End capsPack 5
left or right hand**Internal bends**

Pack 5

External bends

Pack 5

Flat anglesPack 1
upward or downward**Flat tees**

Pack 1

† Please refer to Flat Angle and Flat Tee information

4 CompartmentXL 211
308 x 65mmXL 212
308 x 65mmXL 213
308 x 65mm

ELTB200

ELTB200

ELTB200

ELEB200

ELEB200

ELEB200

2 x ETL1WH

2 x ETL1WH

2 x ETL1WH

2 x ELAC200WH

ELAC200WH

—

—

ELSC200WH

2 x ELSC200WH

EC201WH &
ELLCC200WHEC201WH &
ELLCC200WHEC201WH &
ELLCC200WHEEC201WH &
ELLECC200WHEEC202WH &
ELLECC200WH
EEC202WH &
ELLECC200WHEEC203WH &
ELLECC200WHEIB201WH &
ELLIB200WHEIB202WH &
ELLIB200WHEIB203WH &
ELLIB200WHEXB201WH &
ESLEB200WHEXB202WH &
ESLEB200WHEXB203WH &
ESLEB200WH

EFA211WH

EFA212UWH
EFA212DWH

EFA213WH

EFT211WH

†

EFT213WH

Larger systems

Additional 88mm compartments can be added for larger capacity installations. For further information about larger systems please call our Technical Team on 01424 856688.

4 Compartment fittings

When ordering couplers, end caps or bends for 4-compartment systems, you must request both component parts i.e. XL 211 Coupler = EC201WH PLUS ELLCC200WH.

† XL 212 trunking flat tees

Where profiles have one angled cover and one square cover, as with XL 212, 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 XL 211 tee remove the angled bottom cover and replace with square cover.
- Downward tee – select XL 213 tee remove the square top cover and replace with angled cover.

XL 211 to 213 screened component chart

Base unit

Pack 1 x 3m

Extendable base (outer)

Pack 1 x 3m

Main compartment cover

Pack 1 x 3m

**unscreened 8 x 3m

Angled cover

Pack 1 x 3m

Square cover

Pack 1 x 3m

Couplers

Pack 1

End caps

Pack 1

Internal bend

Pack 1

External bend

Pack 1

Flat angles

Pack 1

Flat tees

Pack 1

† please refer to Coding information top right of this page

4 CompartmentXL211CS14
220 x 65mmXL212CS14
220 x 65mmXL213CS14
220 x 65mm

ELTB200CS1

ELTB200CS1

ELTB200CS1

ELEB200CS2

ELEB200CS2

ELEB200CS2

2 x ETL1WH**

2 x ETL1WH**

2 x ETL1WH**

2 x ELAC200CS1

ELAC200CS1WH

-

-

ELSC200CS1

2 x ELSC200CS1

EC201CS13WH
& ELLCC200WHEC202CS13WH
& ELLCC200WHEC203CS13WH
& ELLCC200WHEEC201CS13WH
& ELLEC200WHEEC202CS13WH
& ELLEC200WHEEC203CS13WH
& ELLEC200WHEIB201CS13WH
& ELLIB200WHEIB202CS13WH
& ELLIB200WHEIB203CS13WH
& ELLIB200WHEXB201CS13WH
& ESLEB200WHEXB202CS13WH
& ESLEB200WHEXB203CS13WH
& ESLEB200WH

†

†

†

†

†

†

† Flat angles and flat tees

Before ordering 4 compartment systems that require copper sprayed compartments, Marshall-Tufflex advise that you contact the Technical Team on 01424 856688.

Coding for 4 compartment screening

The examples shown in the component chart left, are for screening in compartments 1 and 4. For other screening variations of XL trunking, flat angles and tees, we recommend that you contact the Technical Team for advice on 01424 856688.

CS1 = screening in compartment 1
CS3 = screening in compartment 3
CS4 = screening in compartment 4
CS13 = screening in compartments 1 and 3
CS14 = screening in compartments 1 and 4

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide 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.
BS 7671:2001. For data/voice use only.

1 gang screened accessory box

code	depth	pack
ESSB1SWH*	30mm	1

2 gang screened accessory box

code	depth	pack
ESSB2SWH*	30mm	1

1 gang screened adjustable accessory box

code	depth	pack
EAB1SWH*	32 – 50mm	1

2 gang screened adjustable accessory box

code	depth	pack
EAB2SWH*	32 – 50mm	1

*Supplied complete with earth terminal

Steel screening divider

code	pack
ESF1	1

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

Bonding strap

code	pack
ESBS1	1

Steel screening divider bonding strap

code	pack
ESF2	1

Larger systems

Additional 88mm compartments can be added for larger capacity installations. For further information about larger systems please call our Technical Team on 01424 856688.

Twin165 trunking is a mid-size, two-compartment system, designed as a compact variation of Twin Plus.

Twin165 offers high capacity for Cat 6 and Cat 6a 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

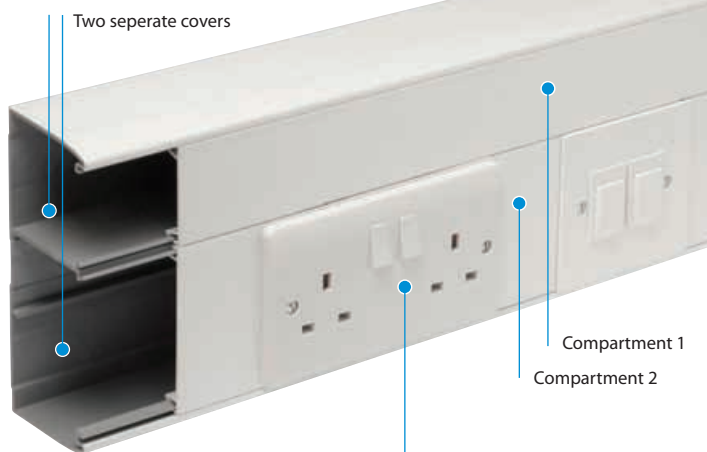
Data information

- 50mm bend radius fittings
- Can be screened against EMI with no reduction in cable capacity
- Adjustable data box 32-50mm
- Steel screening divider

Standard colour
WH
WH: White

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 01424 856688.

...DATA...



Compartment 1
Compartment 2

Part M

For boxes that meet the requirements of Part M (DDA) please refer to page 99 of this section.



Basic components



Base Unit

code	depth	pack
AY1120WH	65mm	4 x 3m



Cover small (Comp 1)

code	depth	pack
AY1130WH	65mm	8 x 3m



Cover large (Comp 2)

code	depth	pack
ETL1WH	65mm	8 x 3m

Fittings



Coupler

code	depth	pack
AY1210WH	65mm	1



End cap LH (Comp 1 top) End Cap RH (Comp 2 top)

code	depth	pack
AY1220WH	65mm	1



End cap RH (Comp 1 top) End Cap LH (Comp 2 top)

code	depth	pack
AY1230WH	65mm	1



External bend adjustable

code	depth	pack
AY1250WH	65mm	1



Internal bend adjustable

code	depth	pack
AY1240WH	65mm	1

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



Flat angle up (comp 1 top)
Flat angle down (comp 2 top)

code	depth	pack
AY1310WH	65mm	1



Flat angle down (comp 1 top)
Flat angle up (comp 2 top)

code	depth	pack
AY1320WH	65mm	1



Flat tee up (comp 1 top)
Flat tee down (comp 2 top)

code	depth	pack
AY1330WH	65mm	1



Flat tee down (comp 1 top)
Flat tee up (comp 2 top)

code	depth	pack
AY1350WH	65mm	1

Components



*RCD/MCB Housing

code	pack
EAHC3WH	1

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex



Segregated flush back box
280 x 150mm
Steel

code	depth	pack
ESFBB1	35mm	1

Boxes and plates



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 – 50mm	10



2 gang adjustable depth box

code	depth	pack
EAB2WH	32 – 50mm	5



1 gang accessory plate

code	pack
ESSP1WH	10



2 gang accessory plate

code	pack
ESSP2WH	5

Part M

1 and 2 gang box assemblies with contrasting coloured flush plates are available to comply with the requirements of Part M (DDA).



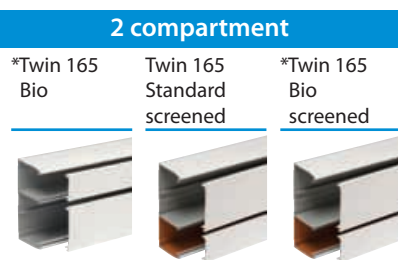
Part M box assembly

code	description	pack
ESPM1BU	1 gang - blue plate	1
ESPM1CH	1 gang - charcoal plate	1
ESPM1RD	1 gang - red plate	1
ESPM2BU	2 gang - blue plate	1
ESPM2CH	2 gang - charcoal plate	1
ESPM2RD	2 gang - red plate	1

Twin165 screened and Bio component chart

Base unit

Pack 1



*Twin 165
Bio

Twin 165
Standard
screened

*Twin 165
Bio
screened

AY1124BIOWH AY1121CSWH AY1125CSBIOWH

Cover small

Pack 1

AY1134BIOWH AY1131CSWH AY1135CSBIOWH

Cover large

Pack 1

ETL1BIOWH ETL1WH or
ETL1CSWH ETL1WH or
ETL1CSBIOWH

Coupler

Pack 1

AY1214BIOWH AY1211CSWH AY1215CSBIOWH

End cap LH (comp 1 top)

Pack 1

AY1224BIOWH AY1221CSWH AY1225CSBIOWH

End cap RH (comp 1 top)

Pack 1

AY1234BIOWH AY1231CSWH AY1235CSBIOWH

Internal bend adjustable

Pack 1

AY1244BIOWH AY1251CSWH AY1255CSBIOWH

External bend adjustable

Pack 1

AY1254BIOWH AY1241CSWH AY1245CSBIOWH

Flat angle up (comp 1 top)

Pack 1

AY1314BIOWH AY1311CSWH AY1315CSBIOWH

Flat angle down (comp 1 top)

Pack 5

AY1324BIOWH AY1321CSWH AY1325CSBIOWH

Flat tee up (comp 1 top)

Pack 1

AY1334BIOWH AY1331CSWH AY1335CSBIOWH

Flat tee down (comp 1 top)

Pack 1

AY1354BIOWH AY1351CSWH AY1355CSBIOWH

*Bio trunking solutions

Twin165 trunking is available with an antimicrobial finish incorporated into the PVC-U material during manufacture. Bio trunking delivers ongoing antimicrobial protection that prevents 99.9% of harmful bacteria growth and is designed to stop the spread of infection via trunking surfaces. For more information, please refer to our Laboratory and Healthcare section on page 203.

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide 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.
BS 7671:2001. For data/voice use only.

1 gang screened accessory box

code	depth	pack
ESSB1SWH*	30mm	1

2 gang screened accessory box

code	depth	pack
ESSB2SWH*	30mm	1

1 gang screened adjustable accessory box

code	depth	pack
EAB1SWH*	32 – 50mm	1

2 gang screened adjustable accessory box

code	depth	pack
EAB2SWH*	32 – 50mm	1

*Supplied complete with earth terminal

Steel screening divider

code	pack
ESF200	1

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

Bonding strap

code	pack
ESBS1	1

Steel screening divider bonding strap

code	pack
ESF2	1

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.

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

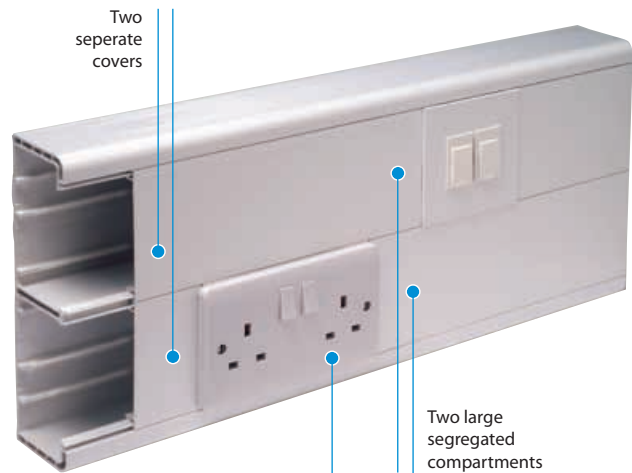
...DATA...

**Product information**

- 210 x 57mm
- 2 large segregated compartments
- Can be sub-divided
- Separate cover access to each compartment
- Suitable for skirting and dado application

Data information

- 50mm bend radius fittings
- Can be screened against EMI with no reduction in cable capacity
- Adjustable data box 32-50mm
- Screened divider and data boxes



Two separate covers

Two large segregated compartments

Standard colour
WH
WH: White

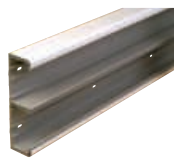
Options: Optional colours and finishes are available but these may be subject to minimum quantity orders and longer lead times. For more information contact the Technical Team on 01424 856688.

Part M

For boxes that meet the requirements of Part M (DDA) please refer to page 102 of this section.



Basic components

**Base unit**

code	pack
EMT60WH	2 x 3m

Cover

code	pack
ETL1WH	8 x 3m

Dividing fillet – PVC-U

code	pack
LDF1	8 x 3m

Fittings

**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**

code	pack
ESXB60WH	1

Capacity reduced by 50%

**External bend assembly – data**

code	pack
EXB60WH	1



Note: 135° versions are also available. For more information call the Technical Team on 01424 856688

Fittings



Internal bend cover

code	pack
EIBC60WH	1



External bend cover

code	pack
ESXBC60WH	1



Flat angle assembly

code	pack
EFA60WH	1



Flat tee assembly

code	pack
EFT60WH	1

Components



*RCD/MCD housing

code	pack
EAHC60WH	1

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex

MMT2
Mini trunking adaptor

code	description	pack
EATA62WH	MMT2	1

MMT4
Mini trunking adaptor

code	description	pack
EATA64WH	MMT4	1

Boxes and plates



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 plate

code	pack
ESSP1WH	10



2 gang accessory plate

code	pack
ESSP2WH	5

Part M

1 and 2 gang box assemblies with contrasting coloured flush plates are available to comply with the requirements of Part M (DDA).



code	description	pack
ESPM1BU	1 gang - blue plate	1
ESPM1CH	1 gang - charcoal plate	1
ESPM1RD	1 gang - red plate	1
ESPM2BU	2 gang - blue plate	1
ESPM2CH	2 gang - charcoal plate	1
ESPM2RD	2 gang - red plate	1

Twin Plus screened component chart

2 compartment

Twin Plus screening in compartment 1
210 x 57mmTwin Plus screening in compartment 2
210 x 57mm

Base unit	EMT60CS1WH	EMT60CS1WH
Cover - screened pack 1 x 3m	ETL1CSWH	ETL1CSWH
Cover - unscreened pack 8 x 3m	ETL1WH	ETL1WH
Coupler	EC60CS1WH	EC60CS1WH
Internal bend assembly	EIB60CS1WH	EIB60CS1WH
Internal bend cover	EIBC60CS1WH	EIBC60CS1WH
External bend assembly standard	ESXB60CS1WH	ESXB60CS1WH
External bend assembly Large	EXBC60CS1	EXBC60CS1
External bend cover standard	ESXB60CS1WH	ESXB60CS1WH
End cap - LH - comp 1 screened	EEC60LHCS1	—
End cap - RH - comp 2 screened	—	EEC60RHCS1
End cap - RH - comp 1 screened	EEC60RHCS1	—
End cap - LH - comp 2 screened	—	EEC60LHCS1
Flat angle up - comp 1 screened	EFA60UCS1WH	—
Flat angle down - comp 2 screened	—	EFA60UCS1WH
Flat angle down - comp 1 screened	EFA60DCS1WH	—
Flat angle up - comp 2 screened	—	EFA60DCS1WH
Flat tee up - comp 1 screened	EFT60UCS1	—
Flat tee down - comp 2 screened	—	EFT60UCS1
Flat tee down - comp 1 screened	EFT60DCS1	—
Flat tee up - comp 2 screened	—	EFT60DCS1

Note:

Twin Plus can be installed with either compartment to the top. When ordering trunking, couplers and bends order as CS1 and invert where required.

Note:

Twin Plus end caps, flat angles and tees are differently handed. *Please identify positioning of the screened compartment before ordering these fittings.*

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide 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.
BS 7671:2001. For data/voice use only.

1 gang screened accessory box

code	depth	pack
ESSB1SWH*	30mm	1

2 gang screened accessory box

code	depth	pack
ESSB2SWH*	30mm	1

1 gang screened adjustable depth box

code	depth	pack
EAB1SWH*	32 – 47mm	1

2 gang screened adjustable depth box

code	depth	pack
EAB2SWH*	32 – 47mm	1

*Supplied complete with earth terminal

Steel screening divider

code	pack
ESF1	1

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

Bonding strap

code	pack
ESBS1	1

Steel screening divider bonding strap

code	pack
ESF2	1

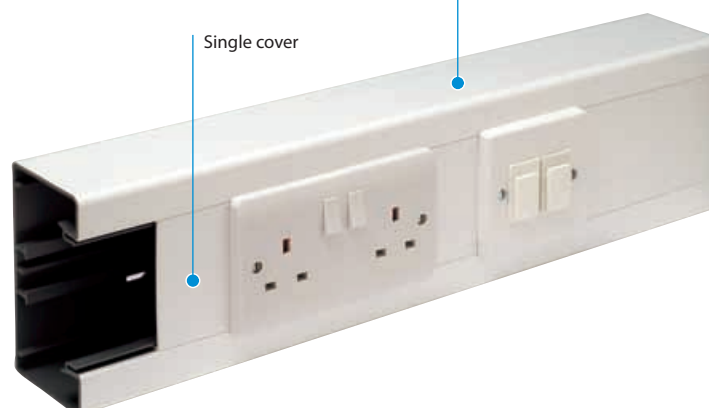
Series R 130 is an extra deep compact trunking that is economical for installation in the smaller office or workshop.

Product information

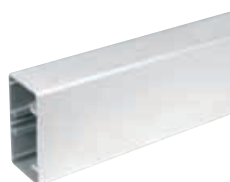
- 130 x 65mm
- 1 main compartment
- Can be sub-divided into 2 or 3 compartments
- Single cover
- Suitable for dado application and as a feeder trunking
- Extra deep 40mm deep boxes

Standard colour
WH
WH: White

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 01424 856688.



Basic components



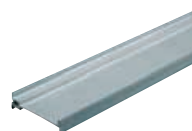
**Trunking assembly
(base and cover)**

code	size	pack
RTBD130WH	130 x 65	4 x 3m



**Segregator
For top and bottom
compartments**

code	pack
RDF1	10 x 3m



**Dividing fillet
For centre compartment**

code	pack
ELDF200	8 x 3m

Fittings

**Coupler**

code	pack
RCP130WH	5

**End cap**

code	pack
RECPD130WH	12

**Internal bend**

code	pack
RIB130WH	1

**External bend**

code	pack
REB130WH	1



**Flat angle
Fabricated - up/down**

code	pack
RFAD130WH	1



**Flat tee
Fabricated - up/down**

code	pack
RFTD130WH	1

Boxes

**1 gang accessory box**

code	depth	pack
RSSB10WH	40mm	12

**2 gang accessory box**

code	depth	pack
RSSB20WH	40mm	6

**1 gang schuko
accessory box**

code	depth	pack
RSSBU10WH	40mm	12

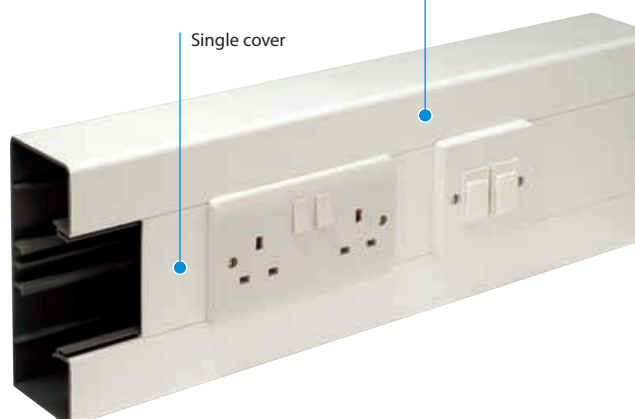
Series R 170 is a mid-sized, economical, deep trunking systems, very suitable where the priority is focused on high cable capacity at low cost

Product information

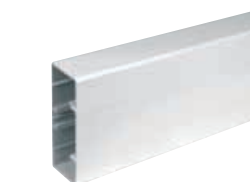
- 170 x 65mm
- 1 main compartment
- Can be sub-divided into 2 or 3 compartments
- Single cover
- Suitable for dado and skirting application and as a feeder trunking
- Extra deep 40mm deep boxes

Standard colour
WH
WH: White

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 01424 856688.



Basic components



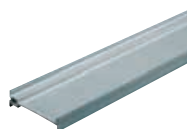
Trunking assembly
(base and cover)

code	size	pack
RTBD170WH	170 x 65	4 x 3m



Segregator
For top and bottom
compartments

code	pack
RDF1	10 x 3m



Dividing fillet
For centre compartment

code	pack
ELDF200	8 x 3m

Fittings



Coupler

code	pack
RCP170WH	5



End cap

code	pack
RECPD170WH	10



Internal bend
Fabricated

code	pack
RIBD170WH	4 x 3m



External bend
Fabricated

code	pack
REBD170WH	1



Flat angle
Fabricated – up/down

code	pack
RFAD170WH	1



Flat tee
Fabricated – up/down

code	pack
RFTD170WH	1

Boxes



1 gang accessory box

code	depth	pack
RSSB10WH	40mm	12



2 gang accessory box

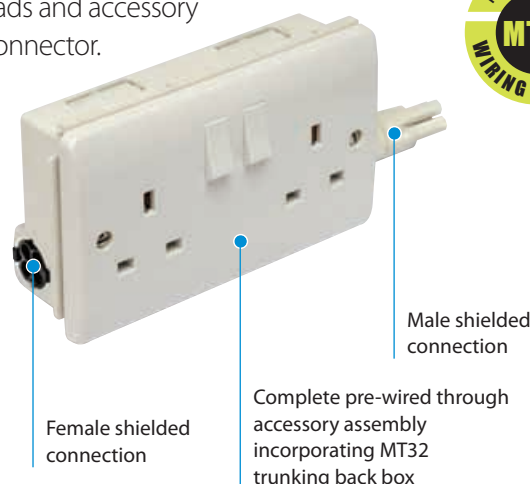
code	depth	pack
RSSB20WH	40mm	6

MT32 modular system for the installation of power within perimeter trunking. A range of pre-wired, tested and assembled interconnecting leads and accessory modules incorporating the Marshall-Tufflex compact 32Amp connector.

Product information

- 32Amp rated system
- Available as LSOH 3 core 2.5mm² flex system or as 4.0mm² singles system specification that meets the requirement for high integrity earthing
- Suitable for ring and radial circuits
- Circuit testing only required on completion of final layout
- Zero harm – no cutting required on site
- Reduced health & safety risk
- Zero waste on site

Standard colour
WH
WH: White



Pre-wired accessories

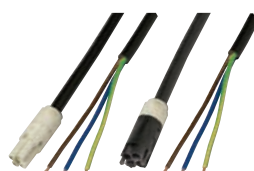


Extension cable 2.5mm²

code	length	pack
AA3330	0.5m	1
AA3331	1.0m	1
AA3332	1.5m	1
AA3333	3.0m	1
AA3335	5.0m	1

Extension cable 4.0mm²

code	length	pack
AA3350	0.5m	1
AA3351	1.0m	1
AA3352	1.5m	1
AA3353	3.0m	1
AA3355	5.0m	1

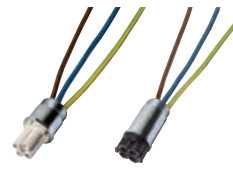


Connection cable free end 2.5mm²

code	length	pack
AA3732 (male)	1.5m	1
AA3532 (female)	1.5m	1

Connection cable free end 4.0mm²

code	length	pack
AA3752 (male)	1.5m	1
AA3552 (female)	1.5m	1



*Male and female adaptors 2.5mm²

code	length	pack
AA7211 (male)	220mm	1
AA7212 (female)	220mm	1

*Male & female adaptors 4.0mm²

code	length	pack
AA7251 (male)	220mm	1
AA7252 (female)	220mm	1

For adapting distribution board to modular system
Note: to fit 20mm knockout

*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 01424 856688.



*Adaptor cables 2.5mm²

code	length	pack
AA8901 (male/male)	0.5m	1
AA8902 (female/female)	0.5m	1

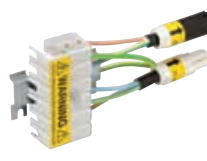
Required for ring circuit



*Adaptor cables 4.0mm²

code	length	pack
AA8951 (male/male)	0.5m	1
AA8952 (female/female)	0.5m	1

Required for ring circuit



*Terminal block

code	size	pack
AA6510 (female/male)	2.5mm ²	1
AA6520 (female/male)	4.0mm ²	1



Tee/Splitter – F/MM 2.5mm²

code	pack
AA7112	1

Tee/Splitter – F/MM 4.0mm²

code	pack
AA7115	1

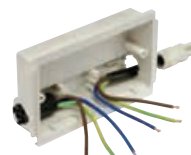


Pre-wired accessory 2.5mm²

code	size	pack
AA6121	1 gang	1
AA6221	2 gang	1

Pre-wired accessory 4.0mm²

code	size	pack
AA6151	1 gang	1
AA6251	2 gang	1



Pre-assembled outlet box 2.5mm²

code	size	pack
AA6321	1 gang	1
AA6421	2 gang	1

Pre-assembled outlet box 4.0mm²

code	size	pack
AA6351	1 gang	1
AA6451	2 gang	1

Aluminium perimeter trunking systems

www.marshall-tufflex.com

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 perimeter trunking systems

The physical properties of Aluminium offer the building industry a high quality material that is very suitable for internal cable management distribution. 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. 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.



Environmental

- 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.



Recycling and sustainability

- 100% recyclable material.
- Can be recycled many times without loss of quality.
- Recycling facilities are well established.



EMC properties

- First class EMC/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 660.32 °C (1220.58 °F).
- Polycarbonate fittings are fire rated to UL94V0.
- ABS fittings are fire rated to UL94V0.

All 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 01424 856688.

Sovereign Plus**70 x 20mm**

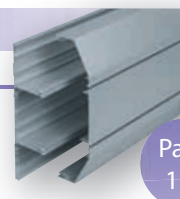
Skirting trunking with a one piece cover.



Page 127

XL Trunking 301**220 x 65mm**

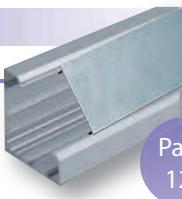
Dado trunking with three, deep compartments.



Page 116

Bench trunking**105 x 105mm**

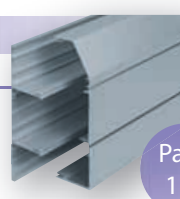
Desk and laboratory trunking.



Page 128

XL Trunking 302**220 x 65mm**

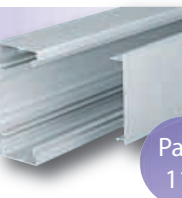
Skirting trunking with three deep compartments



Page 116

Elegance**110 x 55mm**

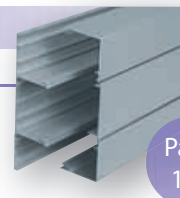
Dado trunking with a single cover.



Page 110

XL Trunking 303**220 x 65mm**

Dado and skirting trunking with three deep compartments



Page 116

Sterling Profile 3001**167 x 50mm**

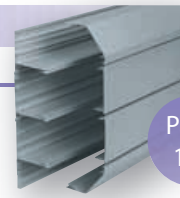
Dado trunking with three separate compartments and individual covers for each compartment.



Page 112

XL Trunking 311**308 x 65mm**

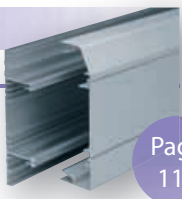
Dado trunking with four deep compartments.



Page 120

Sterling Profile 3002**167 x 50mm**

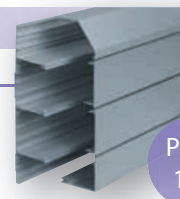
Skirting trunking with three separate compartments and individual covers for each compartment.



Page 112

XL Trunking 312**308 x 65mm**

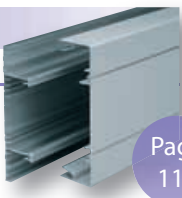
Skirting trunking with four deep compartments.



Page 120

Sterling Profile 3003**167 x 50mm**

Dado and skirting trunking with three separate compartments and individual covers for each compartment.



Page 112

XL Trunking 313**308 x 65mm**

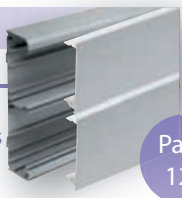
Dado and skirting trunking with four deep compartments.



Page 120

Twin Plus**210 x 57mm**

Large capacity dado and skirting trunking with two deep compartments with in-built segregation of power and data.



Page 124

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

Elegance 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.

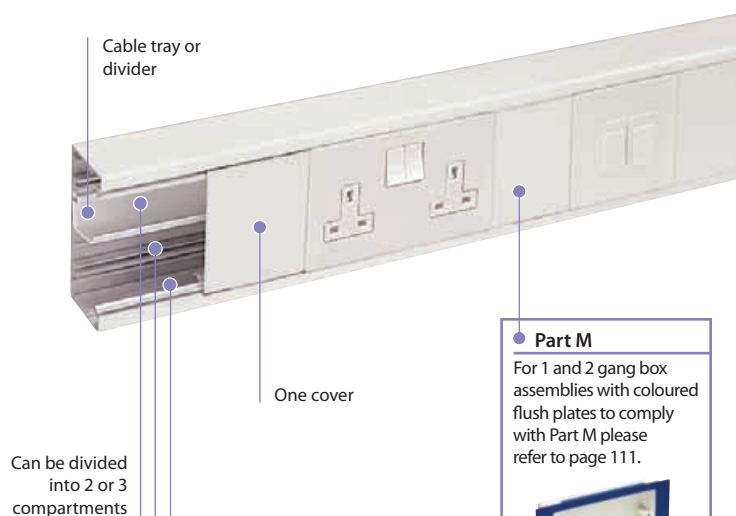
Product information

- 110 x 55mm
- Can be sub-divided into 2 or 3 compartments
- Suitable for dado applications
- A range of polycarbonate clip-on fittings with built-in overlaps
- Fully compatible with Marshall-Tufflex flush power and data accessories and standard UK wiring power and accessories

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.

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 01424 856688.

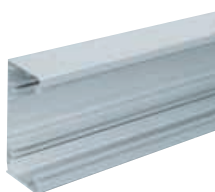


Part M

For 1 and 2 gang box assemblies with coloured flush plates to comply with Part M please refer to page 111.

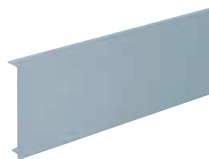


Basic components



Base unit

code	pack
LTB2SG	1



Main compartment cover

code	pack
LTL1SG	1

Fittings



End Caps (Screws included)

code	pack
LECPSSG	1



Internal bend

code	pack
LIBPSSG	1



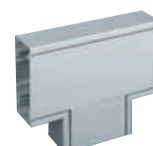
External bend

code	pack
LXPSSG	1



Flat angle

code	pack
LFASSG	1



Flat tee

code	pack
LFTSSG	1

Components

**RCD/MCB Housing**

code	description	pack
EAC1SG		1

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex

**Dividing fillet**

code	description	pack
LDF1	unscreened	8 x 3m
LDFS1	screened	1 x 3m

Bonding assemblies

**Bonding terminal assembly**

code	description	pack
LBT1	incoming 16mm ²	5

**Bonding strap**

code	description	pack
LBS1	base to base 32Amp	5

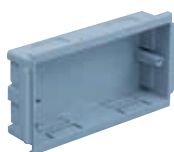
**Bonding strap**

code	description	pack
LBS2	cover to base	5

Boxes and plates

**1 gang accessory box 30mm deep**

code	description	pack
ESSB1SG	PVC-U	1
ESSB401WH	polycarbonate	1

**2 gang accessory box 30mm deep**

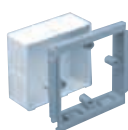
code	description	pack
ESSB2SG	PVC-U	1
ESSB402WH	polycarbonate	1

Part M

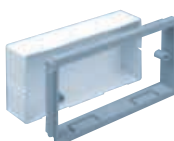
1 and 2 gang box assemblies are available to comply with the requirements of Part M (DDA).

**Part M box assembly**

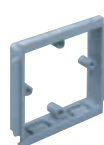
code	description	pack
ESPM1BU	1 gang - blue plate	1
ESPM1CH	1 gang - charcoal plate	1
ESPM1RD	1 gang - red plate	1
ESPM2BU	2 gang - blue plate	1
ESPM2CH	2 gang - charcoal plate	1
ESPM2RD	2 gang - red plate	1

**1 gang adjustable depth box**

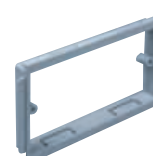
code	depth	pack
EAB1SG	32 – 40mm	10

**2 gang adjustable depth box**

code	depth	pack
EAB2SG	32 – 40mm	5

**1 gang accessory plate**

code	pack
ESSP1SG	10

**2 gang accessory plate**

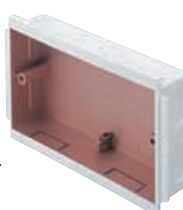
code	pack
ESSP2SG	5

Screened boxes

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide 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.

**1 gang screened accessory box**

code	depth	pack
ESSB1SWH*	30mm	20

2 gang screened accessory box

code	depth	pack
ESSB2SWH*	30mm	10

1 gang screened adjustable box

code	depth	pack
EAB1SWH*	32 – 40mm	10

2 gang screened adjustable box

code	depth	pack
EAB2SWH*	32 – 40mm	10

*Supplied complete with earth terminal

Sterling Profile Aluminium 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 sub-divided
- Suitable for dado and skirting applications
- A range of polycarbonate clip-on fittings with built-in overlaps
- Fully compatible with Sterling flush power and data accessories

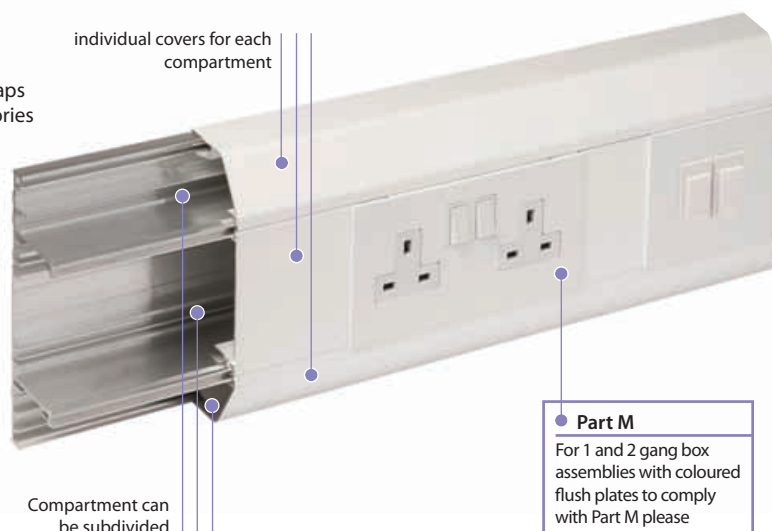
Data information

- Standard bend radius of 25mm (Cat 6)
- Data fittings available for bend radius up to 50mm
- Adjustable data box 32-40mm
- Screened divider and data boxes

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.

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 01424 856688.



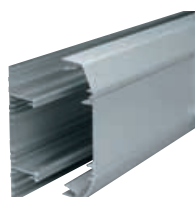
Compartment can be subdivided

Part M

For 1 and 2 gang box assemblies with coloured flush plates to comply with Part M please refer to page 114.

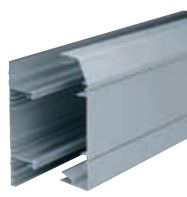


Sterling Profiles



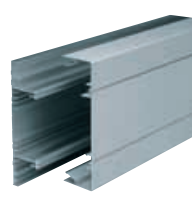
Profile 3001

size: 167 x 50mm



Profile 3002

size: 167 x 50mm



Profile 3003

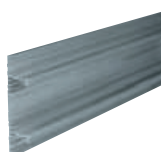
size: 167 x 50mm

Basic components



Dividing fillet (PVC-U)

code	pack
EDF1	outer 8 x 3m



Base unit

code	pack
ETB300MF*	1 x 3m

*MF=Mill finish



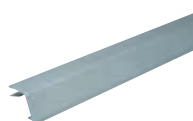
Cable tray (PVC-U)

code	pack
ECT1	8 x 3m



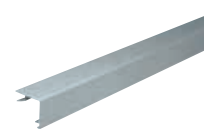
Main compartment cover

code	pack
LTL1SG	1 x 3m



Angled cover

code	pack
ETAC300SG	1 x 3m



Square cover

code	pack
ETSC300SG	1 x 3m

Fittings (Polycarbonate)



Profile 3001
Coupler

code	pack
EC401SG	5



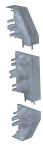
Profile 3002
Coupler

code	pack
EC402SG	5



Profile 3003
Coupler

code	pack
EC403SG	5



Profile 3001
End cap

code	pack
EEC401SG	5



Profile 3002
End cap

code	pack
EEC402LHSG (Left hand)	5
EEC402RHSG (Right hand)	5



Profile 3003
End cap

code	pack
EEC403SG	5



Profile 3001
Internal bend

code	pack
EIBP401SG	5



Profile 3002
Internal bend

code	pack
EIBP402SG	5



Profile 3003
Internal bend

code	pack
EIBP403SG	5



Profile 3001
External bend

code	pack
EXBP401SG	5



Profile 3002
External bend

code	pack
EXBP402SG	5



Profile 3003
External bend

code	pack
EXBP403SG	5

Fittings (Aluminium)



Profile 3001
Flat angle – up/down

code	pack
EFAP3001SG	1



Profile 3002
Flat angle – upward

code	pack
EFAP3002USG	1



Profile 3002
Flat angle – downward

code	pack
EFAP3002DSG	1



Profile 3003
Flat angle – up/down

code	pack
EFAP3003SG	1



Profile 3001
Flat tee – up/down

code	pack
EFTP3001SG	1



Profile 3003
Flat tee – up/down

code	pack
EFTP3003SG	1

Sterling Profile 3002 flat tees

Where profiles have one angled cover and one square cover, as with Sterling Profile 3002, 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 3001 tee remove the angled bottom cover and replace with square cover.
- Downward tee – select Profile 3003 tee remove the square top cover and replace with angled cover.

Components

***RCD/MCB Housing**

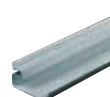
code	pack
EAHC1SG	1

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex

**Dividing fillet (PVC-U) ---DATA---**

code	pack
EDF1CS1	8 x 3m

**Cable tray (PVC-U)**

code	pack
ECT1	8 x 3m

**Angled crossover bridge (PVC-U)**

code	pack
EACB1	5

**Square crossover bridge (PVC-U)**

code	pack
ESCB1	5

**Main crossover bridge (PVC-U)**

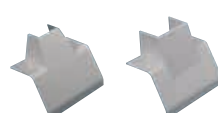
code	pack
EMCB1	5

**Angled cable retainer (PVC-U)**

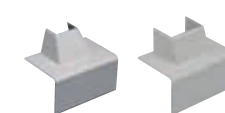
code	pack
EACR1	10

**Main cable retainer (PVC-U)**

code	pack
EMCR1	10

**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

Bonding assemblies

**Bonding terminal assembly**

code	description	pack
LBT1	incoming 16mm ²	5

**Bonding strap**

code	description	pack
LBS1	base to base 32Amp	5

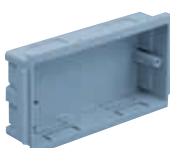
**Bonding strap**

code	description	pack
LBS2	cover to base	5

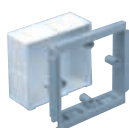
Boxes and plates

**1 gang accessory box 30mm deep**

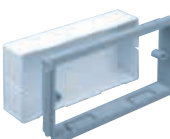
code	description	pack
ESSB1SG	PVC-U	1
ESSB401WH	polycarbonate	1

**2 gang accessory box 30mm deep**

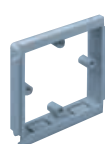
code	description	pack
ESSB2SG	PVC-U	1
ESSB402WH	polycarbonate	1

**1 gang adjustable depth box ---DATA---**

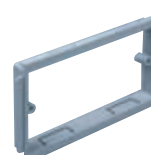
code	depth	pack
EAB1SG	32 - 40mm	10

**2 gang adjustable depth box ---DATA---**

code	depth	pack
EAB2SG	32 - 40mm	5

**1 gang accessory plate**

code	pack
ESSP1SG	10

**2 gang accessory plate**

code	pack
ESSP2SG	5














Part M

1 and 2 gang box assemblies with contrasting coloured flush plates are available to comply with the requirements of Part M (DDA).

**Part M box assembly**

code	description	pack
ESPM1BU	1 gang - blue plate	1
ESPM1CH	1 gang - charcoal plate	1
ESPM1RD	1 gang - red plate	1
ESPM2BU	2 gang - blue plate	1
ESPM2CH	2 gang - charcoal plate	1
ESPM2RD	2 gang - red plate	1

Sterling Profile aluminium component chart

		3 compartment		
		Profile 3001 167 x 50mm	Profile 3002 167 x 50mm	Profile 3003 167 x 50mm
				
Base unit		ETB300	ETB300	ETB300
Pack	1 x 3m			
				
Main compartment cover		LTL1SG	LTL1SG	LTL1SG
Pack	1 x 3m			
				
Angled cover		2 x ETAC300SG	1 x ETAC300SG	—
Pack	1 x 3m			
				
Square cover		—	1x ETSC300SG	2 x ETSC300SG
Pack	1 x 3m			
				
Couplers		ECP401SG	ECP402SG	ECP403SG
Pack	5			
				
End caps		EECP401SG	EEP402LHSG EEP402RHSG	EECP403SG
Pack	5			
				
Internal bends		EIBP401SG	EIB402SG	EIBP403SG
Pack	5			
				
External bends		EXBP401SG	EXBP402SG	EXBP403SG
Pack	5			
				
Flat angles		EFAP3001SG	EFAP3002USG EFAP3002DSG	EFAP3003SG
Pack	1			
				
† Flat tees		EFTP3001SG	†	EFTP3003SG
Pack	1			
		† See Flat Tee information below		

† Sterling Profile 3002 flat tees

Where profiles have one angled cover and one square cover, as with Sterling Profile 3002, 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 3001 tee remove the angled bottom cover and replace with square cover.
- Downward tee – select Profile 3003 tee remove the square top cover and replace with angled cover.

Screened boxes

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide protection 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.



1 gang screened box

code	depth	pack
ESSB1SWH*	30mm	20

2 gang screened box

code	depth	pack
ESSB2SWH*	30mm	10

1 gang screened adjustable box

code	depth	pack
EAB1SWH*	32 – 40mm	10

2 gang screened adjustable box

code	depth	pack
EAB2SWH*	32 – 40mm	10

*Supplied complete with earth terminal

XL Aluminium Trunking 301 to 303 comprises a range of 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 sub-divided
- Suitable for dado and skirting applications (XL301 are 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

Data information

- For bend radius information contact the Technical Team
- External bends feature internal segregators
- Adjustable data box 32-50mm
- Screened divider and data boxes

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.

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 01424 856688.

individual covers for each compartment

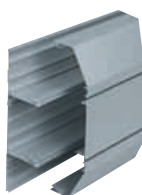


Part M

For 1 and 2 gang box assemblies with coloured flush plates to comply with Part M please refer to page 118.



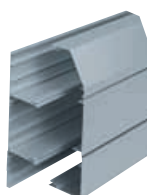
XL profiles



***XL 301**

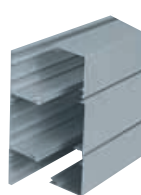
size 220 x 65mm

*For dado installation only



XL 302

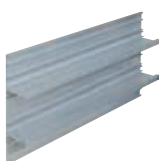
size 220 x 65mm



XL 303

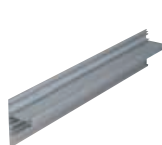
size 220 x 65mm

Basic components



Base unit

code	pack
ELTB300	1 x 3m



Extendable base*

code	pack
ELEB300	1 x 3m

*To increase number of compartments



Main compartment cover

code	pack
LTL1SG	1



Angled cover

code	pack
ELAC300SG	1 x 3m



Square cover

code	pack
ELSC300SG	1 x 3m



Dividing fillet

code	pack
ELDF200SG	8 x 3m

Fittings (Polycarbonate)



**XL 301
Coupler**

code	pack
EC401SG	5



**XL 302
Coupler**

code	pack
EC402SG	5



**XL 303
Coupler**

code	pack
EC403SG	5



**XL 301
End cap**

code	pack
EEC401SG	5



**XL 302
End cap**

code	pack
EEC402LHSG (Left hand)	5
EEC402RHSG (Right hand)	5



**XL 303
End cap**

code	pack
EEC403SG	5



**XL 301
Internal bend**

code	pack
EIB401SG	5



**XL 302
Internal bend**

code	pack
EIB402SG	5



**XL 303
Internal bend**

code	pack
EIB403SG	5



**XL 301
External bend**

code	pack
EXB401SG	5



**XL 302
External bend**

code	pack
EXB402SG	5



**XL 303
External bend**

code	pack
EXB403SG	5



**XL 301
Flat angle – up/down**

code	pack
EFA301SG	1



**XL 302
Flat angle – upward**

code	pack
EFA302USG	1



**XL 303
Flat angle – downward**

code	pack
EFA302DSG	1



**Flat angle – up/down
XL 303**

code	pack
EFA303SG	1



**XL 301
Flat tee – up/down**

code	pack
EFT301SG	1



**XL 303
Flat tee – up/down**

code	pack
EFT303SG	1

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:

- Upward tee – select XL 301 tee remove the angled bottom cover and replace with square cover.
- Downward tee – select XL 303 tee remove the square top cover and replace with angled cover.

Fittings (Aluminium)

Components

***RCD/MCB Housing**

code	description	pack
EAHC3		1

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex

**Screened dividing fillet (PVC-U)**

code	description	pack
ELDF200CS1		4 x 3m

Bonding assemblies

**Bonding terminal assembly**

code	description	pack
LBT1	incoming 16mm ²	5

**Bonding strap**

code	description	pack
LBS1	base to base 32Amp	5

**Bonding strap**

code	description	pack
LBS2	cover to base	5

Boxes and plates

**1 gang accessory box 30mm deep**

code	description	pack
ESSB1SG	PVC-U	1
ESSB401WH	polycarbonate	1

**2 gang accessory box 30mm deep**

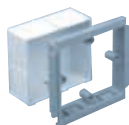
code	description	pack
ESSB2SG	PVC-U	1
ESSB402WH	polycarbonate	1

Part M

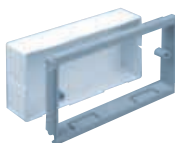
1 and 2 gang box assemblies with contrasting coloured flush plates are available to comply with the requirements of Part M (DDA).

**Part M box assembly**

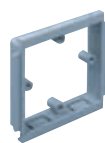
code	description	pack
ESPM1BU	1 gang - blue plate	1
ESPM1CH	1 gang - charcoal plate	1
ESPM1RD	1 gang - red plate	1
ESPM2BU	2 gang - blue plate	1
ESPM2CH	2 gang - charcoal plate	1
ESPM2RD	2 gang - red plate	1

**1 gang adjustable depth box**

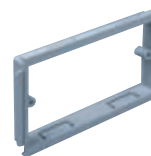
code	depth	pack
EAB1SG	32 – 40mm	10

**2 gang adjustable depth box**

code	depth	pack
EAB2SG	32 – 40mm	5

**1 gang accessory plate**

code	pack
ESSP1SG	10

**2 gang accessory plate**

code	pack
ESSP2SG	5

Screened boxes

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide 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.

**1 gang screened accessory box**

code	depth	pack
ESSB1SWH*	30mm	20

2 gang screened accessory box

code	depth	pack
ESSB2SWH*	30mm	10

1 gang screened adjustable box

code	depth	pack
EAB1SWH*	32 – 40mm	10

2 gang screened adjustable box

code	depth	pack
EAB2SWH*	32 – 40mm	10

*Supplied complete with earth terminal

XL Aluminium 301 to 303
component chart**Base unit**

Pack 1 x 3m

Features earth bonding rail and screw ports to aid the fastening of pipe clips and gas valves etc

Extendable base

Pack 1 x 3m

Additional 88mm compartment

Main compartment cover

Pack 1 x 3m

Angled cover

Pack 1 x 3m

Square cover

Pack 1 x 3m

Couplers

Pack 5

End caps

Pack 5

left or right hand

Internal bends

Pack 5

External bends

Pack 5

Flat angles

Pack 1

upward or downward

† Flat tees

Pack 1

† See Flat Tee information below

3 Compartment**XL 301**

220 x 65mm

XL 302

220 x 65mm

XL 303

220 x 65mm



ELTB300

ELTB300

ELTB300

-

-

-

LTL1SG

LTL1SG

LTL1SG

2 x ELAC300SG

1 x ELAC300SG

-

-

1 x ELSC300SG

2 x ELSC300SG

EC401SG

EC402SG

EC403SG

EEC401SG

EEC402LHSG
EEC402RHSG

EEC403SG

EIB401SG

EIB402SG

EIB403SG

EXB401SG

EXB402SG

EXB403SG

EFA301SG

EFA302USG
EFA302DSG

EFA303SG

EFT 301SG

†

EFT303SG

† XL Trunking 302 flat tees

Where profiles have one angled cover and one square cover, as with XL 302 trunking, 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 XL 301 tee remove the angled bottom cover and replace with square cover.
- Downward tee – select XL 303 tee remove the square top cover and replace with angled cover.

XL Aluminium Trunking 311 to 313 comprises a range of deep, multi-compartment systems that provide extra capacity and screening performance levels for data cabling. XL 311, 312 and 313 offer the facility to extend height for higher density cabling.

Product information

- 308 x 65mm
- 4 or more deep segregated compartments
- Compartments can be sub-divided
- Suitable for dado and skirting applications (XL 311 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

Data information

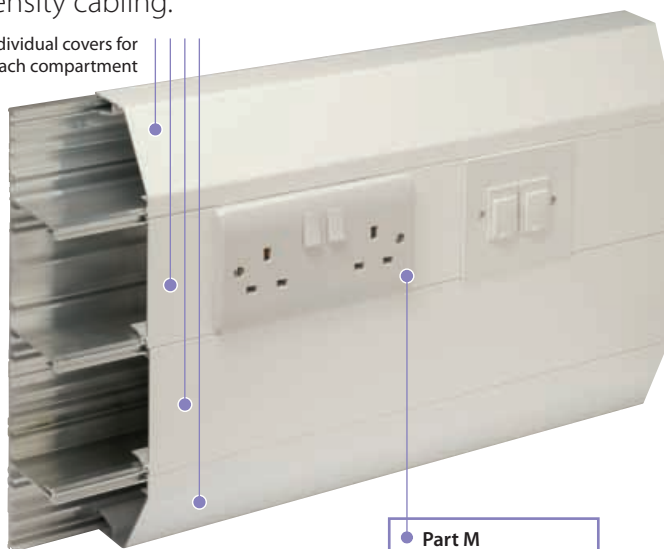
- For bend radius information contact the Technical Team
- External bends feature internal segregators
- Adjustable data box 32-50mm
- Screened divider and data boxes

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.

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 01424 856688.

individual covers for each compartment

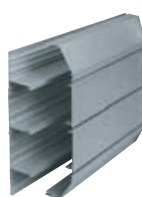


Part M

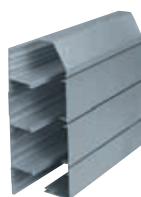
For 1 and 2 gang box assemblies with coloured flush plates to comply with Part M please refer to page 122.



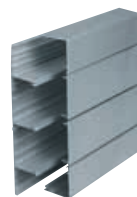
XL profiles



***XL 311**
size 308 x 65mm
*For dado installation only

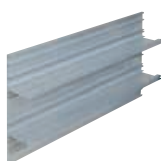


XL 312
size 308 x 65mm

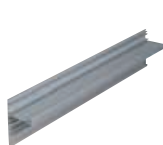


XL 313
size 308 x 65mm

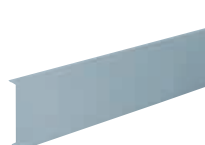
Basic components



Base unit
code ELTB300 pack 1 x 3m



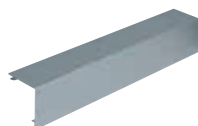
Extendable base*
code ELEB300 pack 1 x 3m
*To increase number of compartments



Main compartment cover
code LTL1SG pack 1



Angled cover
code ELAC300SG pack 1 x 3m



Square cover
code ELSC300SG pack 1 x 3m



Dividing fillet
code ELDF200SG pack 8 x 3m



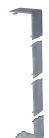
**XL 311
Coupler**

code	pack
EC401SG plus ELLCC400SG	5



**XL 312
Coupler**

code	pack
EC402SG plus ELLCC400SG	5



**XL 313
Coupler**

code	pack
EC403SG plus ELLCC400SG	5



**XL 311
End cap**

code	pack
EEC401SG plus ELLEC400SG	5
Universal for RH and LH	



**XL 312
End cap**

code	pack
EEC402LHSG plus ELLEC400SG	5
EEC402RHSG plus ELLEC400SG	5



**XL 313
End cap**

code	pack
EEC403SG plus ELLEC400SG	5
Universal for RH and LH	

End cap retaining screws

When installing end caps, additional retention can be achieved by using end cap retaining screws G1310 (pack 40).



**XL 311
Internal bend**

code	pack
EIB401SG plus ELLIB400SG	5



**XL 312
Internal bend**

code	pack
EIB402SG plus ELLIB400SG	5



**XL 313
Internal bend**

code	pack
EIB403SG plus ELLIB400SG	5



**XL 311
External bend**

code	pack
EXB401SG plus ESLEB400SG	5



**XL 312
External bend**

code	pack
EXB402SG plus ESLEB400SG	5



**XL 313
External bend**

code	pack
EXB403SG plus ESLEB400SG	5



**XL 311
Flat angle – up/down**

code	pack
EFA311SG	1



**XL 312
Flat angle – upward**

code	pack
EFA312USG	1



**XL 312
Flat angle – downward**

code	pack
EFA312DSG	1



**XL 313
Flat angle – up/down**

code	pack
EFA313SG	1



**XL 311
Flat tee – up/down**

code	pack
EFT311SG	1



**XL 313
Flat tee – up/down**

code	pack
EFT313SG	1

XL Trunking 312 flat tees

Where profiles have one angled cover and one square cover, as with XL 312, 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 XL 311 tee remove the angled bottom cover and replace with square cover.
- Downward tee – select XL 313 tee remove the square top cover and replace with angled cover.

Components

***RCD/MCB Housing**

code	description	pack
EAHC3		1

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex

**Screened dividing fillet (PVC-U)**

code	description	pack
ELDF200CS1		4 x 3m

Bonding assemblies

**Bonding terminal assembly**

code	description	pack
LBT1	incoming 16mm ²	5

**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

**1 gang accessory box 30mm deep**

code	description	pack
ESSB1SG	PVC-U	1
ESSB401WH	polycarbonate	1

**2 gang accessory box 30mm deep**

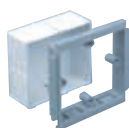
code	description	pack
ESSB2SG	PVC-U	1
ESSB402WH	polycarbonate	1

Part M

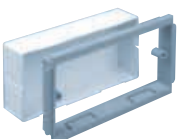
1 and 2 gang box assemblies with contrasting coloured flush plates are available to comply with the requirements of Part M (DDA).

**Part M box assembly**

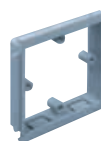
code	description	pack
ESPM1BU	1 gang - blue plate	1
ESPM1CH	1 gang - charcoal plate	1
ESPM1RD	1 gang - red plate	1
ESPM2BU	2 gang - blue plate	1
ESPM2CH	2 gang - charcoal plate	1
ESPM2RD	2 gang - red plate	1

**1 gang adjustable depth box**

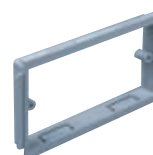
code	depth	pack
EAB1SG	32 – 50mm	10

**2 gang adjustable depth box**

code	depth	pack
EAB2SG	32 – 50mm	5

**1 gang accessory plate**

code	description	pack
ESSP1SG		10

**2 gang accessory plate**

code	description	pack
ESSP2SG		5

Screened boxes

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide 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.

**1 gang screened accessory box**

code	depth	pack
ESSB1SWH*	30mm	20

2 gang screened accessory box

code	depth	pack
ESSB2SWH*	30mm	10

1 gang screened adjustable box

code	depth	pack
EAB1SWH*	32 – 40mm	10

2 gang screened adjustable box

code	depth	pack
EAB2SWH*	32 – 40mm	10

XL Aluminium 311 to 313
component chart**Base unit**

Pack 1 x 3m

Features earth bonding rail and screw ports to aid the fastening of pipe clips and gas valves etc

Extendable base

Pack 1 x 3m

Additional 88mm compartment

Main compartment cover

Pack 1 x 3m

Angled cover

Pack 1 x 3m

Square cover

Pack 1 x 3m

Couplers

Pack 5

End capsPack 5
left or right hand**Internal bends**

Pack 5

External bends

Pack 5

Flat anglesPack 1
upward or downward**† Flat tees**

Pack 1

† See Flat Tee information below

4 Compartment**XL 311**

308 x 65mm

XL 312

308 x 65mm

XL 313

308 x 65mm



ELTB300

ELTB300

ELTB300

ELEB300

ELEB300

ELEB300

2 x LTL1SG

2 x LTL1SG

2 x LTL1SG

2 x ELAC300SG

1 x ELAC300SG

—

—

1 x ELSC300SG

2 x ELSC300SG

EC401SG &
ELLCC400SGEC402SG &
ELLCC400SGEC403SG &
ELLCC400SGEEC401SG &
ELLCC400SGEEC402LHSG &
ELLECC400SG
EEC402RHSG &
ELLECC400SGEEC403SG &
ELLECC400SGEIB401SG &
ELLIB400SGEIB402SG &
ELLIB400SGEIB403SG &
ELLIB400SGEXB401SG &
ESLEB400SGEXB402SG &
ESLEB400SGEXB403SG &
ESLEB400SG

EFA311SG

EFA312USG &
EFA312DSG

EFA313SG

EFT311SG

†

EFT313SG

† XL Trunking 312 flat tees

Where profiles have one angled cover and one square cover, as with XL Trunking 312, 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 XL 311 tee remove the angled bottom cover and replace with square cover.
- Downward tee – select XL 313 tee remove the square top cover and replace with angled cover.

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 6 data cabling.

Product information

- 210 x 57mm
- 2 large permanent segregated compartments
- Each compartment can be sub divided
- 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

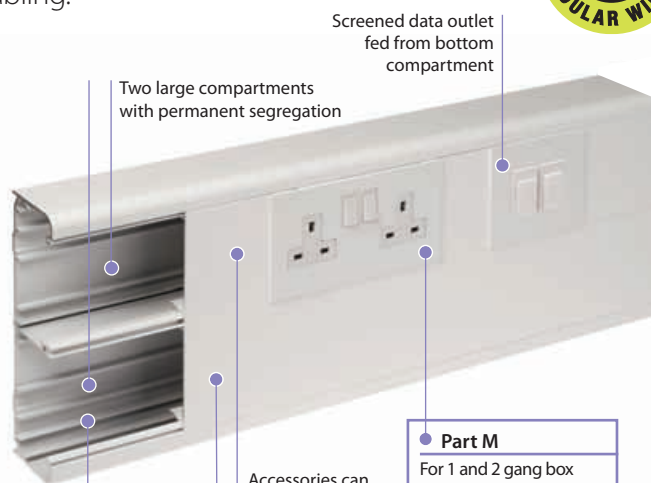
Data information

- 50mm bend radius fittings
- Adjustable data box 32-47mm
- Screened divider and data boxes

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.
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 01424 856688.

DATA



Two large compartments with permanent segregation

Screened data outlet fed from bottom compartment

Accessories can be fitted in either compartment

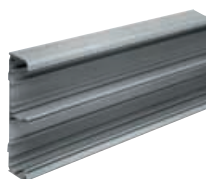
Compartment without accessories offers extra large data cable capacity

Part M

For 1 and 2 gang box assemblies with coloured flush plates to comply with Part M please refer to page 126.



Basic components



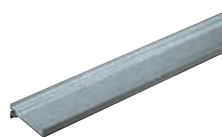
Base unit

code	pack
EMTA60SG	1 x 3m



Main compartment cover (aluminium)

code	pack
LTL1SG	1 x 3m



Dividing fillet (PVC-U)

code	pack
LDF1	8 x 3m

Fittings (ABS)



Coupler

code	pack
EC60SG	1



End cap

code	pack
EEC60SG	1

End cap retaining screws

When installing end caps, additional retention can be achieved by using end cap retaining screws G1310 (pack 40).



Internal bend cover

code	pack
EIBC60	1



Standard external bend cover

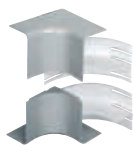
code	pack
ESXBC60SG	1



Flat angle cover

code	pack
EFAC60SG	1

Fittings (ABS)



---DATA---

Internal bend assembly

code	pack
EIB60SG	1



---DATA---

External bend assembly
Standard

code	pack
ESXB60SG	1

Capacity reduced by 50%



---DATA---

External bend assembly
Large

code	pack
EXB60SG	1



---DATA---

Flat angle assembly

code	pack
EFA60SG	1

Covers only in ABS



---DATA---

Flat tee assembly

code	pack
EFTA60SG	1

Flat Tees include covers, cable inserts in ABS with base in aluminium

Components



*RCD/MCB Housing

code	pack
EAHC60	1

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-TufflexDividing fillet
(PVC-U)

code	pack
LDFS1	8 x 3m

Mini trunking adaptor
(polycarbonate)

code	description	pack
EATA62	MMT2	1

Mini trunking adaptor
(polycarbonate)

code	description	pack
EATA64	MMT4	1

Bonding assemblies



Bonding terminal assembly

code	description	pack
LBT1	incoming 16mm ²	5



Bonding strap

code	description	pack
LBS1	base to base 32 amp	5



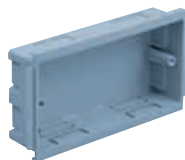
Bonding strap

code	description	pack
LBS2	cover to base	5

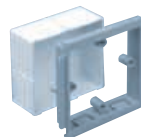
Boxes and plates

1 gang accessory box
30mm deep

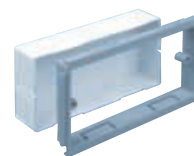
code	description	pack
ESSB1SG	PVC-U	1
ESSB401WH	polycarbonate	1

2 gang accessory box
30mm deep

code	description	pack
ESSB2SG	PVC-U	1
ESSB402WH	polycarbonate	1

1 gang adjustable
depth box

code	depth	pack
EAB1SG	32 – 50mm	10

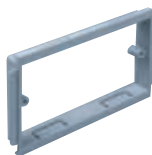
2 gang adjustable
depth box

code	depth	pack
EAB2SG	32 – 50mm	5



1 gang accessory plate

code	pack
ESSP1SG	5



2 gang accessory plate

code	pack
ESSP2SG	5

Part M

1 and 2 gang box assemblies with contrasting coloured flush plates are available to comply with the requirements of Part M (DDA).



Part M box assembly

code	description	pack
ESPM1BU	1 gang - blue plate	1
ESPM1CH	1 gang - charcoal plate	1
ESPM1RD	1 gang - red plate	1
ESPM2BU	2 gang - blue plate	1
ESPM2CH	2 gang - charcoal plate	1
ESPM2RD	2 gang - red plate	1

Screened boxes

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide 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.



1 gang screened accessory box

code	depth	pack
ESSB1SWH*	30mm	20

2 gang screened accessory box

code	depth	pack
ESSB2SWH*	30mm	10

1 gang screened adjustable box

code	depth	pack
EAB1SWH*	32 – 50mm	10

2 gang screened adjustable box

code	depth	pack
EAB2SWH*	32 – 50mm	10

*Supplied complete with earth terminal

Sovereign Plus Aluminium is a small skirting trunking suitable for installation into hotels, small offices and houses.

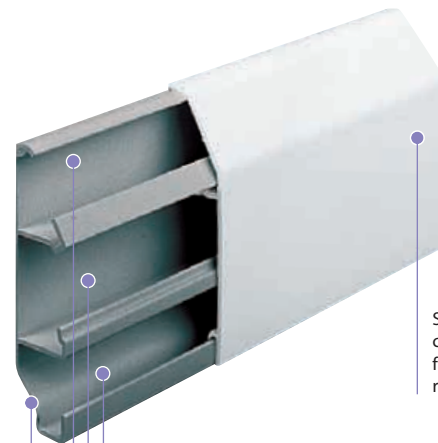
Product information

- 75 x 20mm
- 3 compartments
- Suitable for skirting application
- Architrave option available
- Overlapping fittings
- External accessory boxes designed to accept square and radiused corner accessories
- Trunking supplied as complete assembly

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.

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 01424 856688.



Smooth one-piece cover can be removed to facilitate redecoration or refurbishment

Compartments cater for mixed services

Base profile designed to fit tightly into corners

Trunking and fittings



Skirting trunking

code	size	pack
JEA03SG	75 x 20mm	1 x 3m



Coupler

code	pack
JM422SG	10



End cap

code	pack
JM421SG (Left hand)	2
JM420SG (Right hand)	2



Internal corner

code	pack
JM423SG	5



External corner

code	pack
JM424SG	5



Cable retainer

code	pack
JM28	100



Mini trunking adaptor (in line)

code	description	pack
JM425SG	MMT2	2



Mini adaptor stop end

code	description	pack
JM426SG (Right Hand) MMT3		2
JM427SG (Left Hand) MMT3		2
(shown)		

Boxes



1 gang accessory box External mounting

code	depth	pack
JM441SG	32mm	5



2 gang accessory box External mounting

code	depth	pack
JM442SG	32mm	3



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

Data information

- Adjustable data box 32-40mm
- Screened divider and data boxes

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.
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 01424 856688.

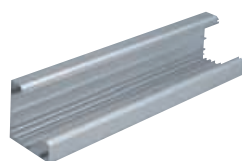


Part M

For 1 and 2 gang box assemblies with coloured flush plates to comply with Part M please refer to page 129.



Basic components



Trunking base

code	size	pack
MBTAB105SG	105 x 105mm	1 x 3m



Cover

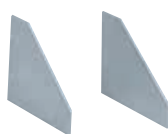
code	pack
MBTAL105SG	1 x 3m



Dividing fillet (PVC-U)

code	pack
BDF105SG	4 x 3m

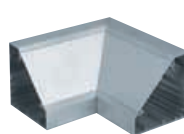
Fittings



End caps (steel)

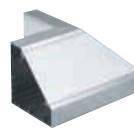
code	pack
BECA105SG	1

with fixing screws



Internal angle (aluminium)

code	pack
BIAA105SG	1



External angle (aluminium)

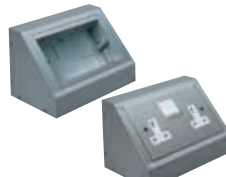
code	pack
BEAA105SG	1

Bench units



1 gang bench unit

code	description	pack
MBUA1SG	no socket	1
MBA1SG	ESS1G socket	1



2 gang bench unit

code	description	pack
MBUA2SG	no socket	1
MBSA2SG	ESS2G socket	1



1 & 2 gang bench unit

code	description	pack
MBUA3SG	no sockets	1

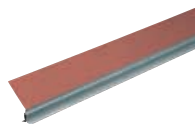
Components

***RCD/MCB Housing**

code	description	pack
EABC60		2

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex

**Dividing fillet (PVC-U)****Screened**

code	description	pack
BDF105CS1		1 x 3m

Bonding assemblies

**Bonding terminal assembly**

code	description	pack
LBT1	incoming 16mm ²	5

**Bonding strap**

code	description	pack
LBS1	base to base 32 amp	5

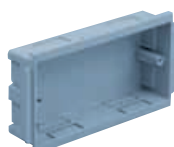
**Bonding strap**

code	description	pack
LBS2	cover to base	5

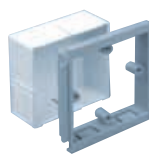
Boxes and plates

**1 gang accessory box 30mm deep**

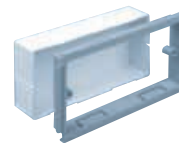
code	description	pack
ESSB1SG	PVC-U	1
ESSB401WH	polycarbonate	1

**2 gang accessory box 30mm deep**

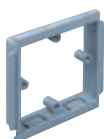
code	description	pack
ESSB2SG	PVC-U	1
ESSB402WH	polycarbonate	1

**1 gang adjustable depth box**

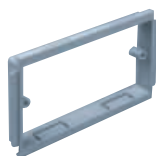
code	depth	pack
EAB1SG	32 – 40mm	10

**2 gang adjustable depth box**

code	depth	pack
EAB2SG	32 – 40mm	5

**1 gang accessory plate**

code	description	pack
ESSP1SG		10

**2 gang accessory plate**

code	description	pack
ESSP2SG		5

Part M

1 and 2 gang box assemblies with contrasting coloured flush plates are available to comply with the requirements of Part M (DDA).

**Part M box assembly**

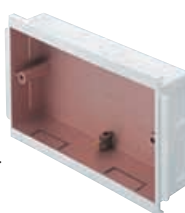
code	description	pack
ESPM1BU	1 gang - blue plate	1
ESPM1CH	1 gang - charcoal plate	1
ESPM1RD	1 gang - red plate	1
ESPM2BU	2 gang - blue plate	1
ESPM2CH	2 gang - charcoal plate	1
ESPM2RD	2 gang - red plate	1

Screened boxes

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide 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.

**1 gang screened accessory box**

code	depth	pack
ESSB1SWH*	30mm	20

2 gang screened accessory box

code	depth	pack
ESSB2SWH*	30mm	10

1 gang screened adjustable box

code	depth	pack
EAB1SWH*	32 – 40mm	10

2 gang screened adjustable box

code	depth	pack
EAB2SWH*	32 – 40mm	10

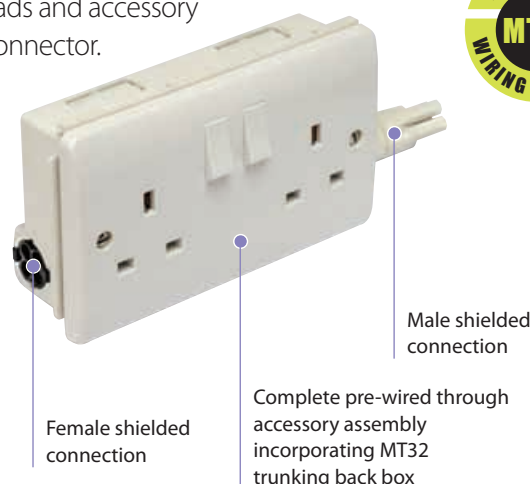
*Supplied complete with earth terminal

MT32 modular system for the installation of power within perimeter trunking. A range of pre-wired, tested and assembled interconnecting leads and accessory modules incorporating the Marshall-Tufflex compact 32Amp connector.

Product information

- 32Amp rated system
- Available as LSOH 3 core 2.5mm² flex system or as 4.0mm² singles system specification that meets the requirement for high integrity earthing
- Suitable for ring and radial circuits
- Circuit testing only required on completion of final layout
- Zero harm – no cutting required on site
- Reduced health & safety risk
- Zero waste on site

Standard colour
WH
WH: White



Pre-wired accessories

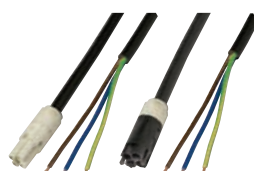


Extension cable 2.5mm²

code	length	pack
AA3330	0.5m	1
AA3331	1.0m	1
AA3332	1.5m	1
AA3333	3.0m	1
AA3335	5.0m	1

Extension cable 4.0mm²

code	length	pack
AA3350	0.5m	1
AA3351	1.0m	1
AA3352	1.5m	1
AA3353	3.0m	1
AA3355	5.0m	1

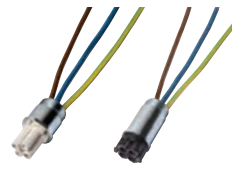


Connection cable free end 2.5mm²

code	length	pack
AA3732 (male)	1.5m	1
AA3532 (female)	1.5m	1

Connection cable free end 4.0mm²

code	length	pack
AA3752 (male)	1.5m	1
AA3552 (female)	1.5m	1



*Male and female adaptors 2.5mm²

code	length	pack
AA7211 (male)	220mm	1
AA7212 (female)	220mm	1

*Male & female adaptors 4.0mm²

code	length	pack
AA7251 (male)	220mm	1
AA7252 (female)	220mm	1

For adapting distribution board to modular system
Note: to fit 20mm knockout

*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 01424 856688.



*Adaptor cables 2.5mm²

code	length	pack
AA8901 (male/male)	0.5m	1
AA8902 (female/female)	0.5m	1

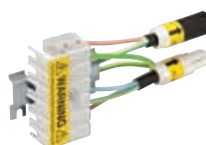
Required for ring circuit



*Adaptor cables 4.0mm²

code	length	pack
AA8951 (male/male)	0.5m	1
AA8952 (female/female)	0.5m	1

Required for ring circuit



*Terminal block

code	size	pack
AA6510 (female/male)	2.5mm ²	1
AA6520 (female/male)	4.0mm ²	1



Tee/Splitter – F/MM 2.5mm²

code	pack
AA7112	1

Tee/Splitter – F/MM 4.0mm²

code	pack
AA7115	1



Pre-wired accessory 2.5mm²

code	size	pack
AA6121	1 gang	1
AA6221	2 gang	1

Pre-wired accessory 4.0mm²

code	size	pack
AA6151	1 gang	1
AA6251	2 gang	1



Pre-assembled outlet box 2.5mm²

code	size	pack
AA6321	1 gang	1
AA6421	2 gang	1

Pre-assembled outlet box 4.0mm²

code	size	pack
AA6351	1 gang	1
AA6451	2 gang	1

Steel perimeter trunking systems

www.marshall-tufflex.com

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



Environmental

- Steel is very friendly to the environment.
- Compared to other materials it requires relatively low amounts of energy to produce.
- The steel industry has made immense efforts to limit environmental pollution in the last decades.
- 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 and sustainability

- 100% recyclable material.
- Can be recycled many times without loss of quality.
- The steel industry has been recycling for more than 150 years.
- Recycling one ton 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.
- Recycling facilities are well established.



EMC properties

- An excellent EMC/EMI screening material.



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.

All steel systems are available with standard powder coat white finish to RAL 9010. Other colours are available but will be subject to longer lead times and minimum order quantities. For more information please call our Technical Team on 01424 856688.

System 130

130 x 63mm

A compact rectangular dado trunking also suitable as a feeder trunking.



Page 134

System 170

170 x 63mm

A mid-size rectangular dado and skirting trunking also suitable as a feeder trunking.




Page 136

System 210 Twin

210 x 63mm

High capacity dado or skirting trunking with two large compartments with in-built segregation of power and data.



Page 138

Information

Please note that our steel systems may be subject to lead times. For further information please call the Technical Team on 01424 856688.

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

Steel System 130 is 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 sub-divided
- Suitable for dado application

Can be sub-divided
into 3 compartments

Single cover

Friction-fit covers and bonding
assemblies eliminate need for
separate bonding leads



Standard colour
WH
WH: White

Options: optional colours are available but these may be subject to minimum quantity orders and longer lead times. For more information contact the Technical Team on 01424 856688.

Basic components



Base unit

code	size	pack
8555013	130 x 63mm	1 x 2m



Cover

code	length	pack
8555043	1m	10 x 1m
8555073	1.5m	10 x 1.5m



Dividing fillet

code	length	pack
8510066	2m	10 x 2m

Fittings



External tolerance sleeve

code	width	pack
8555113	40mm	5



External joint cover

code	width	pack
8555123	25mm	5



End cap

code	pack
8555103	5

For use with LBS3



Internal bend base

code	pack
8555143	1



External bend base

code	pack
8555153	1



External bend cover

code	pack
8555173	1

Fittings



Universal int/ext bend

code	pack
8555133	1



Flat angle base – up/down

code	pack
8555203	1



Flat angle cover

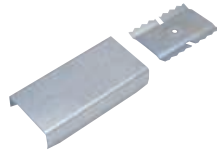
code	pack
8555223	1



Flat tee base – up/down

code	pack
8555253	1

Bonding assemblies



Internal coupling/bonding set

code	pack
8555030	5



End cap bonding strap

code	pack
LBS3	1

Accessories



Cable retaining clip

code	pack
8511006	10

Touch-up paint RAL 9010

code	size	pack
8190072	25ml	1

Boxes



1 gang accessory box

code	depth	pack
RSSB10WH	40mm	12



2 gang accessory box

code	depth	pack
RSSB20WH	40mm	6



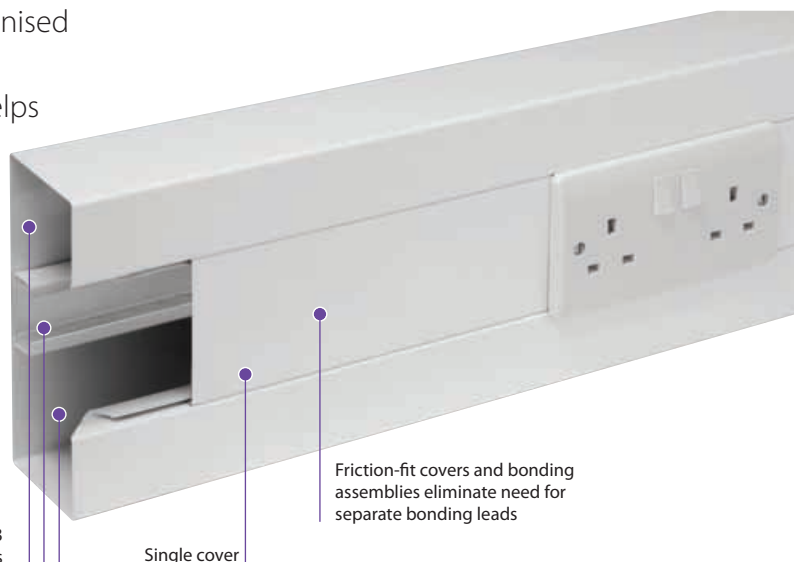
Cover spacer for accessory boxes

code	width	pack
WG01085	50mm	10

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 sub-divided
- Suitable for dado application



Can be sub-divided into 3 compartments

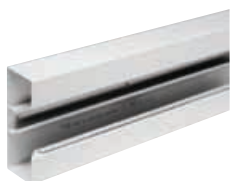
Single cover

Friction-fit covers and bonding assemblies eliminate need for separate bonding leads

Standard colour
WH
WH: White

Options: optional colours are available but these may be subject to minimum quantity orders and longer lead times. For more information contact the Technical Team on 01424 856688.

Basic components



Base unit

code	size	pack
8556013	170 x 63mm	1 x 2m



Cover

code	length	pack
8555043	1m	10 x 1m
8555073	1.5m	10 x 1.5m



Dividing fillet

code	length	pack
8510066	2m	10 x 2m

Fittings



External tolerance sleeve

code	width	pack
8556113	40mm	5



External joint cover

code	width	pack
8556123	25mm	5



End cap

code	pack
8556103	5

For use with LBS3



Internal bend base

code	pack
8556143	1



External bend base

code	pack
8556153	1



External bend cover

code	pack
8555173	1

Fittings



Universal int/ext bend

code	pack
8556133	1



Flat angle base – up/down

code	pack
8556203	1



Flat angle cover

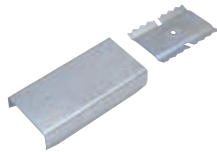
code	pack
8555223	1



Flat tee base – up/down

code	pack
8556253	1

Bonding assemblies



Internal coupling/bonding set

code	pack
8556030	5



End cap bonding strap

code	pack
LBS3	1

Accessories



Cable retaining clip

code	pack
8511006	10

Touch-up paint RAL 9010

code	size	pack
8190072	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

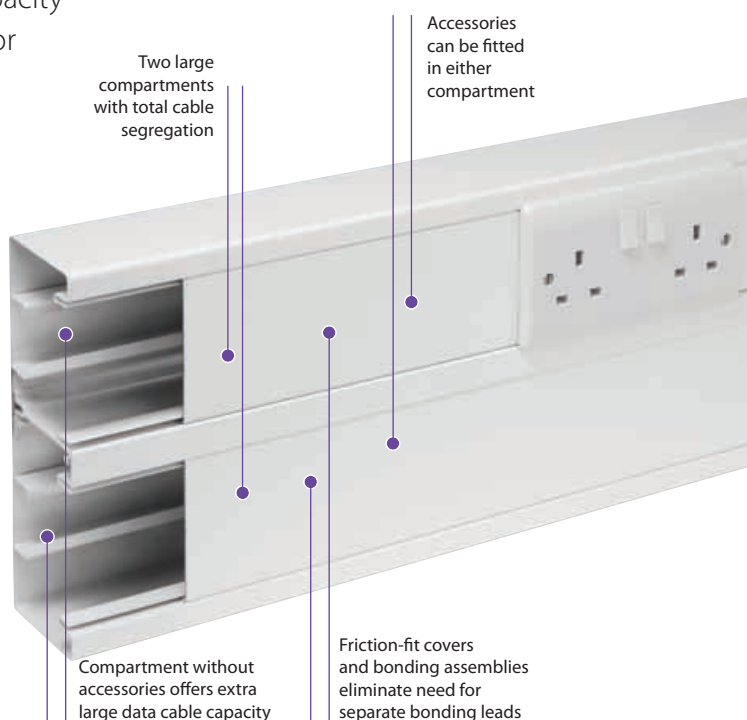
Steel 210 Twin is an extra deep cable management solution incorporating two large segregated high capacity compartments and is specifically designed for carrying large quantities of cabling. 210 Twin is pre-galvanised with a powder-coat surface finish that helps to prevent smearing and marking.

Product information

- 210 x 63mm
- 2 large segregated compartments
- Each compartment can be sub-divided
- Suitable for dado and startup applications

Standard colour
WH
WH: White

Options: optional colours are available but these may be subject to minimum quantity orders and longer lead times. For more information contact the Technical Team on 01424 856688.



Basic components

Base unit

code	size	pack
8559513	210 x 63mm	4 x 2m

Cover

code	length	pack
8555043	1m	10 x 1m
8555073	1.5m	10 x 1.5m

Dividing fillet

code	length	pack
8510066	2m	10 x 2m

Boxes and fittings

End cap

code	pack
8559103	5

Note: use with LBS3

External joint cover

code	width	pack
8559623	25mm	5

External tolerance sleeve

code	width	pack
8559613	40mm	5

Internal bend base

code	pack
8559643	1

External bend base

code	pack
8559653	1

External bend cover

code	pack
8555173	1

Flat angle base – up/down

code	pack
8559703	1

Flat angle cover

code	pack
8555223	1

Cover spacer for accessory boxes

code	width	pack
WG01085	50mm	10

Internal coupling/bonding set

code	pack
8559530	1

End cap bonding strap

code	pack
LBS3	1

1 and 2 gang accessory boxes

code	depth	pack
RSSB10WH	40mm	12
RSSB20WH	40mm	6

Power, voice and data accessories for trunking

www.marshall-tufflex.com

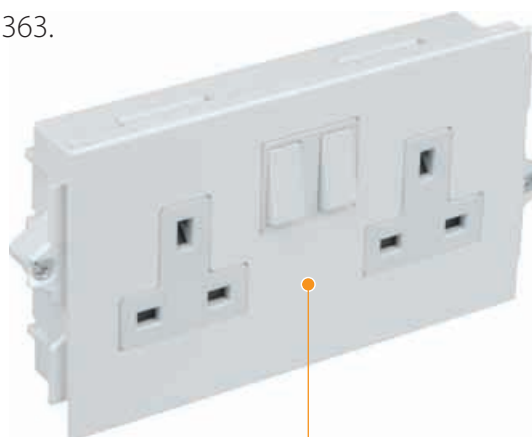
A range of flush and surface accessories that are compatible with Marshall-Tufflex trunking systems.



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, Sceptre and Series R)
- Suitable for bench trunking, powerpoles and posts
- Flush finish
- Twin sockets have dual earth entry



MT32 Prefabricated and modular wiring

For further information about our fully pre-wired, pre-tested and assembled accessories, please refer to page 144 in this section.



PREFABRICATED
PAGE
144
MODULAR WIRING

Wiring accessories



13Amp 1 gang unswitched socket

code	pack
EUS1WH	1



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 1 gang switched socket (front fix)

code	pack
ESS4WH	1



13Amp DP 2 gang switched socket (front fix)

code	pack
ESS3WH	1



13Amp 1 gang vertical mount switched socket

code	pack
ESS11WH	1

Note: for PowerPoles, Posts and trunking



Two way switch

code	rating	pack
E6S1WH	6 amp	1



DP switch with neon

code	rating	pack
E32DN1WH	32 amp	1



13Amp unswitched fused spur

code	pack
EUFS1WH	1



13Amp switched fused spur

code	pack
ESFS1WH	1



13Amp switched fused spur with neon

code	pack
ESFSN1WH	1



Accessory box spacer

code	size	pack
ES1WH	14mm	4

For use between accessory boxes

A range of voice and data plates that incorporate apertures to accommodate 6c and RJ45 outlets.

Product information

- Flush and surface mounting plates
- Standard 6c accessories with 22 x 37mm apertures

Standard colour
WH
WH: White

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 01424 856688.



Boxes with flush plates



Flush module

code	description	pack
EM116WH	1 x 6c	1



Flush module

code	description	pack
EM126WH	2 x 6c	1



Flush module

code	description	pack
EM236WH	3 x 6c	1



Flush module

code	description	pack
EM246WH	4 x 6c	1



Front fixing flush module

code	description	pack
EM316WH	1 x 6c	1



Front fixing flush module

code	description	pack
EM326WH	2 x 6c	1



Front fixing flush module

code	description	pack
EM436WH	3 x 6c	1



Front fixing flush module

code	description	pack
EM446WH	4 x 6c	1

Surface mount plates



*1 gang plate 1 way

code	description	pack
EP316WH	1 x 6c	10



*1 gang plate 2 way

code	description	pack
EP326WH	2 x 6c	10



*2 gang plate 4 way

code	description	pack
EP446WH	4 x 6c	5

*For use with accessory boxes shown on the next page
Plate depth 9mm

Components



Blank fascia

code	size	pack
FM93WH*	6c	1



Accessory box spacer

code	size	pack
ES1WH	14mm	4

For use between accessory boxes

Part M

1 and 2 gang box assemblies with contrasting coloured flush plates are available to comply with the requirements of Part M (DDA).



code	description	pack
ESPM1BU	1 gang - blue plate	1
ESPM1CH	1 gang - charcoal plate	1
ESPM1RD	1 gang - red plate	1
ESPM2BU	2 gang - blue plate	1
ESPM2CH	2 gang - charcoal plate	1
ESPM2RD	2 gang - red plate	1

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Power, voice and data accessories for trunking

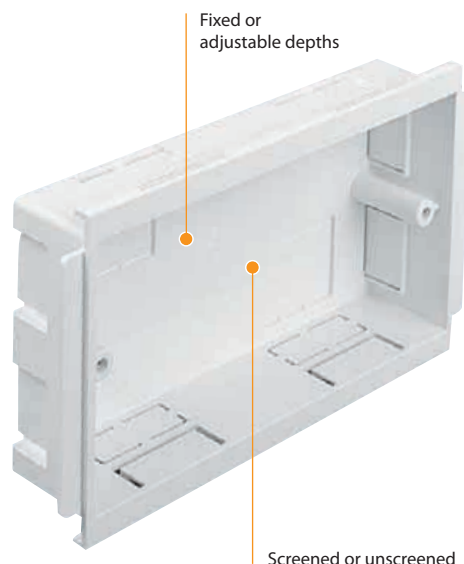
A large range of standard and screened options, including adjustable depth boxes that are particularly suitable for data or 4mm² power cable.

Product information

- Accept standard UK accessories
- Standard screw fixing centres
- Adjustable depth
- Part M compliance

Standard colour
WH
WH: White

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 01424 856688.

**1 gang accessory box**

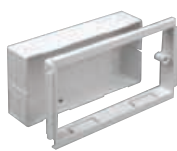
code	depth	pack
ESSB1WH	30mm	20

**2 gang accessory box**

code	depth	pack
ESSB2WH	30mm	10

**1 gang adjustable depth box**

code	depth	pack
EAB1WH	32 – 50mm	10

**2 gang adjustable depth box**

code	depth	pack
EAB2WH	32 – 50mm	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	10

**2 gang accessory plate**

code	pack
ESSP2WH	5

1 gang screened accessory box

code	depth	pack
ESSB1SWH*	30mm	1

1 gang screened adjustable box

code	depth	pack
EAB1SWH*	32 – 40mm	1

*Supplied complete with earth terminal

Part M

1 and 2 gang box assemblies with contrasting coloured flush plates are available to comply with the requirements of Part M (DDA).



code	description	pack
ESPM1BU	1 gang - blue plate	1
ESPM1CH	1 gang - charcoal plate	1
ESPM1RD	1 gang - red plate	1
ESPM2BU	2 gang - blue plate	1
ESPM2CH	2 gang - charcoal plate	1
ESPM2RD	2 gang - red plate	1

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
- ETOP faceplates can be inserted directly into any Marshall-Tufflex trunking that uses the LTL1 cover

Standard colour
WH
WH: White

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 01424 856688.



ETOP faceplates can be inserted directly into LTL1 covers 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.

MT32 Prefabricated and modular wiring

For further information about our fully pre-wired, pre-tested and assembled accessories, please refer to page 144 in this section.



1 gang schuko accessory box

code	depth	pack
ESSBU1WH	40mm	10



2 gang schuko accessory box

code	depth	pack
ESSBU2WH	40mm	5



Box for accessory plates

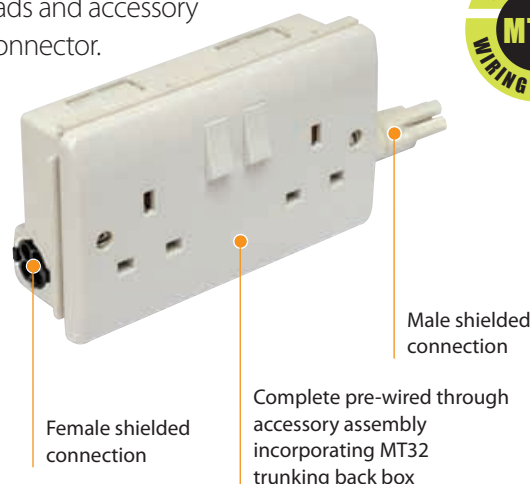
code	depth	description	pack
ETOB10WH	34mm	for ETOP10 plate if required	1
ETOB20WH	34mm	for ETOP20 plate if required	1
ETOB30WH	34mm	for ETOP30 plate if required	1
ETOB180WH	34mm	for ETOP180 plate in USA	1

MT32 modular system for the installation of power within perimeter trunking. A range of pre-wired, tested and assembled interconnecting leads and accessory modules incorporating the Marshall-Tufflex compact 32Amp connector.

Product information

- 32Amp rated system
- Available as LSOH 3 core 2.5mm² flex system or as 4.0mm² singles system specification that meets the requirement for high integrity earthing
- Suitable for ring and radial circuits
- Circuit testing only required on completion of final layout
- Zero harm – no cutting required on site
- Reduced health & safety risk
- Zero waste on site

Standard colour
WH
WH: White



Pre-wired accessories

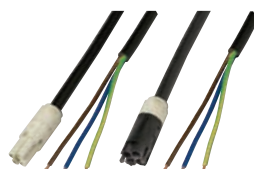


Extension cable 2.5mm²

code	length	pack
AA3330	0.5m	1
AA3331	1.0m	1
AA3332	1.5m	1
AA3333	3.0m	1
AA3335	5.0m	1

Extension cable 4.0mm²

code	length	pack
AA3350	0.5m	1
AA3351	1.0m	1
AA3352	1.5m	1
AA3353	3.0m	1
AA3355	5.0m	1

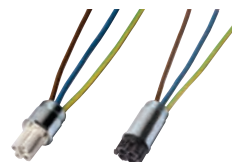


Connection cable free end 2.5mm²

code	length	pack
AA3732 (male)	1.5m	1
AA3532 (female)	1.5m	1

Connection cable free end 4.0mm²

code	length	pack
AA3752 (male)	1.5m	1
AA3552 (female)	1.5m	1



*Male and female adaptors 2.5mm²

code	length	pack
AA7211 (male)	220mm	1
AA7212 (female)	220mm	1

*Male & female adaptors 4.0mm²

code	length	pack
AA7251 (male)	220mm	1
AA7252 (female)	220mm	1

For adapting distribution board to modular system
Note: to fit 20mm knockout

*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 01424 856688.



*Adaptor cables 2.5mm²

code	length	pack
AA8901 (male/male)	0.5m	1
AA8902 (female/female)	0.5m	1

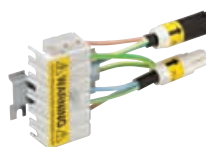
Required for ring circuit



*Adaptor cables 4.0mm²

code	length	pack
AA8951 (male/male)	0.5m	1
AA8952 (female/female)	0.5m	1

Required for ring circuit



*Terminal block

code	size	pack
AA6510 (female/male)	2.5mm ²	1
AA6520 (female/male)	4.0mm ²	1



Tee/Splitter – F/MM 2.5mm²

code	pack
AA7112	1

Tee/Splitter – F/MM 4.0mm²

code	pack
AA7115	1

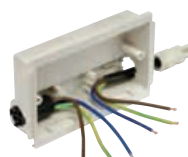


Pre-wired accessory 2.5mm²

code	size	pack
AA6121	1 gang	1
AA6221	2 gang	1

Pre-wired accessory 4.0mm²

code	size	pack
AA6151	1 gang	1
AA6251	2 gang	1



Pre-assembled outlet box 2.5mm²

code	size	pack
AA6321	1 gang	1
AA6421	2 gang	1

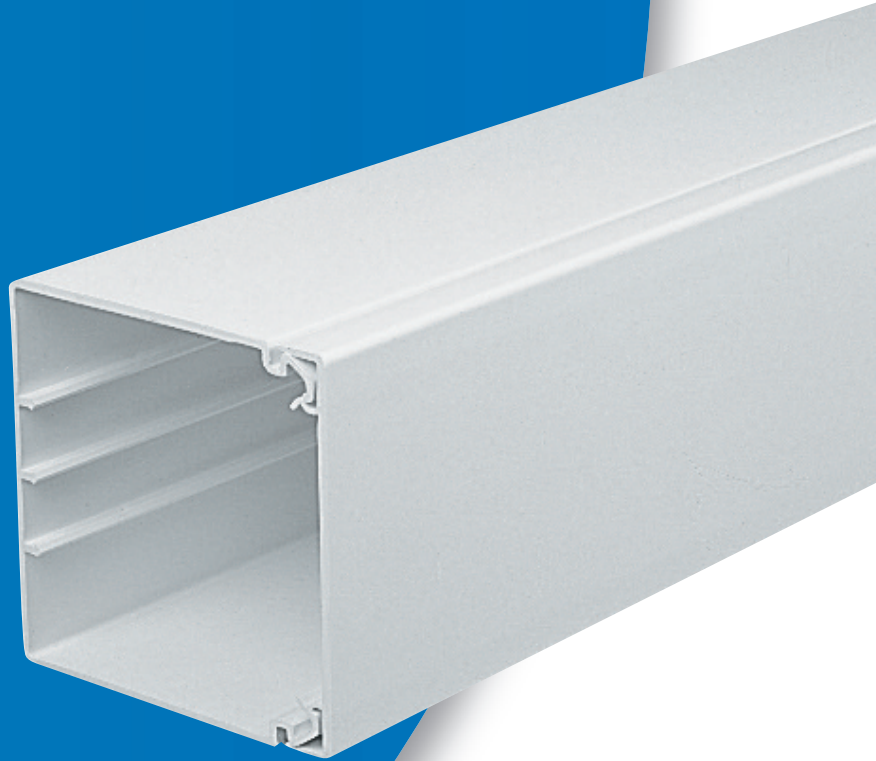
Pre-assembled outlet box 4.0mm²

code	size	pack
AA6351	1 gang	1
AA6451	2 gang	1

PVC-U Domestic and general trunking

www.marshall-tufflex.com

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



PVC-U Domestic and general trunking

POLYVINYLCHLORIDE UNPLASTICISED (PVC-U) is one of the most successful modern synthetic materials. It makes excellent use of scarce resources, is long-lasting and safe in production, use and disposal. PVC-U cable containment is easy to install, light to handle and very cost-effective. It is an excellent choice of material for the majority of commercial, education and healthcare environments and has been more thoroughly researched than almost any other synthetic material.



Environmental

- 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.
- Lowest oil content of a commodity plastic.



Recycling and sustainability

- PVC-U is a cost-effective, sustainable choice and comparable with other materials such as steel, aluminium, copper and wood.
- 100% recyclable material.
- Long life cycle.
- Excellent weather resistance.
- No painting or powder coating required.



EMC properties

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.
- 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.
- Chars and is self-extinguishing.
- Does not produce flaming droplets or burning debris.
- ABS fittings fire rated to UL94V0.

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

PVC-U Domestic and general trunking systems provide a range of practical commercial, general and domestic trunking in a variety of sizes and profiles, for the distribution of power and data.

Mini Trunking

10 x 8mm to 75 x 16mm

Range of small size containment for general wiring. Standard and self-fix options are available with 1 or 2 compartments.

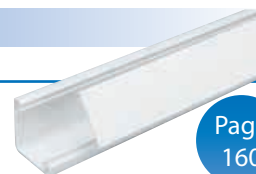


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Angled Trunking

34 x 34mm

A small, angular trunking for running into corners and which can accommodate accessory outlets.

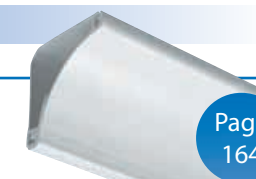


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Cornice Trunking

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.



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Sovereign Plus

75 x 20mm

Skirting trunking with one piece cover.



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Maxi Trunking

50 x 50mm and 150 x 150mm

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



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Sceptre Trunking

100 x 25mm and 100 x 40mm

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

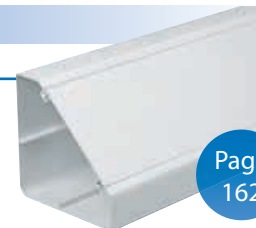


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Bench Trunking

105 x 105mm

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



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

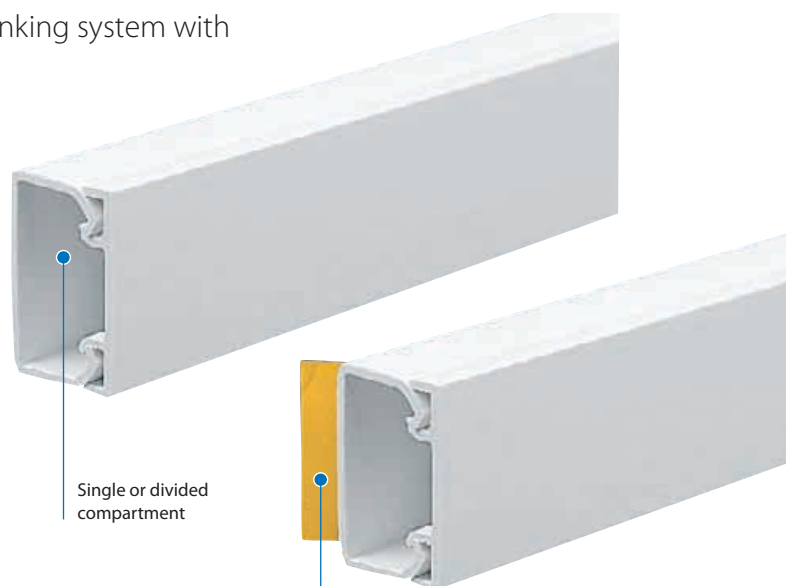
Mini Trunking is an economical feeder trunking system with easy accessibility for wiring and re-wiring.

Product information

- A variety of sizes from 10 x 8mm to 75 x 16mm
- Single or divided compartment options
- Self-fix systems available

Data information

- 50mm radius fittings available for MMT4



Standard colour
WH
WH: White

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 01424 856688.

With or without self-fixing tape

Standard profiles



MMT0

code	size	pack
MMT0WH	16 x 10mm	40 x 3m



MMT1

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



MMT2

code	size	pack
MMT2WH	25 x 16mm	30 x 3m



MMT3

code	size	pack
MMT3WH	38 x 16mm	15 x 3m



MMT3C

code	size	pack
MMT3CWH	38 x 16mm	15 x 3m



MMT4

code	size	pack
MMT4WH	38 x 25mm	15 x 3m



MMT4C

code	size	pack
MMT4CWH	38 x 25mm	15 x 3m



MMT5

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



MMT6

code	size	pack
MMT6WH	38 x 38mm	12 x 3m



MMT7

code	size	pack
MMT7WH	75 x 16mm	12 x 3m

Self fixing profiles

**MMT00SF**

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

**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

**MMT3SF**

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

**MMT4SF**

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

Self fix capping

**Capping**

code	size	pack
14000SFWH	29.5 x 10mm	10 x 3m

**Capping**

code	size	pack
14010SFWH	41.5 x 12.5mm	10 x 3m

Components

**Ceiling rose adaptor**

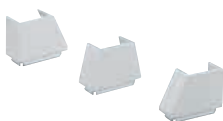
code	size	pack
TCR2WH	2 K.O. for MMT1	10
	2 K.O. for MMT2	

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
TA0WH	MMT0	50
TA1WH	MMT1	50
TA2WH	MMT2	50
TA3WH	MMT3	20

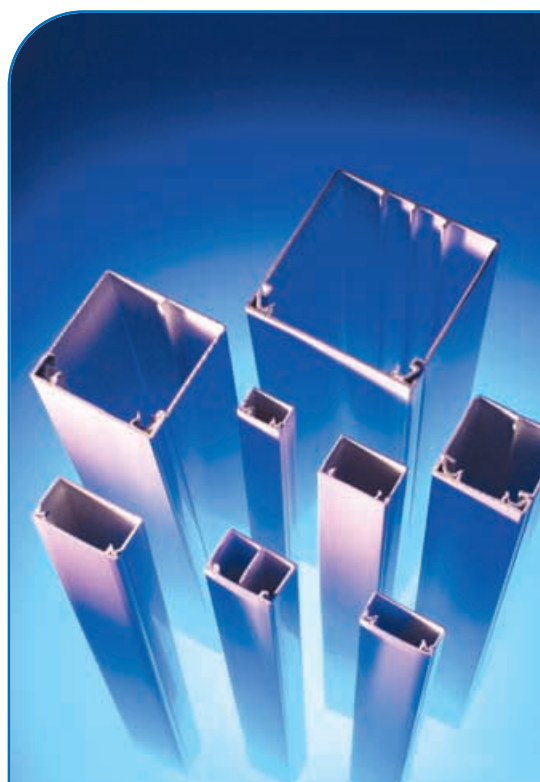
TA0 fits MMT1-KO

























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











code	size	pack
TA3/1LHWH	MMT1	20
TA3/1RHWH	MMT1	20
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



		Couplers	End caps	Internal bends			External bends		
		External coupler	End cap	Square internal bend	Radius internal bend assembly	Radius internal bend cover	Square external bend	Radius external bend assembly	Radius external bend cover
									
			DATA.....DATA.....		DATA.....DATA.....
MMT00SFWH	10 x 8m		-	-	-	-	-	-	-
MMT0WH			-	-	-	-	-	-	-
MMT0SFWH	16 x 10mm		-	-	-	-	-	-	-
MMT1WH			TC1WH Pack 40	TEC1WH Pack 100	TIB1WH Pack 50	-	TEB1WH Pack 50	-	-
MMT1SFWH	16 x 16mm								
MMT2WH			TC2WH Pack 40	TEC2WH Pack 100	TIB2WH Pack 30	-	TEB2WH Pack 30	-	-
MMT2SFWH	25 x 16mm								
MMT3WH			TC3WH Pack 25	TEC3WH Pack 50	TIB3WH Pack 25	-	TEB3WH Pack 25	-	-
MMT3SFWH	38 x 16mm								
MMT3CWH	38 x 16mm		TC3WH Pack 25	TEC3WH Pack 50	TIB3WH Pack 25	-	TEB3WH Pack 25	-	-
MMT4WH			TC4WH Pack 25	TEC4WH Pack 30	TIB4WH Pack 25	TIDB4WH Pack 5	TEB4WH Pack 25	TEDB4WH Pack 5	TEDB4CWH Pack 5
MMT4SFWH	38 x 25mm								
MMT4CWH	38 x 25mm		TC4WH Pack 25	TEC4WH Pack 30	TIB4WH Pack 25	-	TEB4WH Pack 25	-	-
MMT5WH			TC5WH Pack 20	TEC5WH Pack 20	TIB5WH Pack 20	-	TEB5WH Pack 20	-	-
MMT6WH			TC6WH Pack 10	TEC6WH Pack 20	TIB6WH Pack 10	-	TEB6WH Pack 10	-	-
MMT7WH			-	-	-	-	-	-	-
MMT7SFWH	75 x 16mm								

Flat angles			Tees						
Square angle	Radius flat angle assembly	Square flat angle cover	Square equal tee	Radius equal tee assembly	Radius equal tee cover	Square unequal tee	Radius unequal tee assembly	Radius unequal tee cover	Ceiling tee
									
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—
TFB1WH Pack 60	—	—	TT1-1WH Pack 20	—	—	—	—	—	TCT1/1WH Pack 10
TFB2WH Pack 30	—	—	TT2-2WH Pack 30	—	—	TT2-1WH Pack 30	—	—	TCT2/1WH TCT2/2WH Pack 10
TFB3WH Pack 25	—	—	TT3-3WH Pack 25	—	—	TT3-1WH TT3-2WH Pack 20	—	—	—
TFB3WH Pack 25	—	—	TT3-3WH Pack 25	—	—	TT3-1WH TT3-2WH Pack 20	—	—	—
TFB4WH Pack 20	TFDB4WH Pack 5	TFDB4CWH Pack 5	TT4-4WH Pack 20	TD4-4WH Pack 5	TD4-4CWH Pack 5	TT4-1WH TT4-2WH TT4-3WH Pack 20	TD4-2WH Pack 5	TD4-2CWH Pack 5	TCT4/1WH TCT4/2WH Pack 10
TFB4WH Pack 20	—	—	TT4-4WH Pack 20	—	—	TT4-1WH TT4-2WH TT4-3WH Pack 20	—	—	TCT4/1WH TCT4/2WH Pack 10
TFB5WH Pack 20	—	—	TT5-5WH Pack 20	—	—	—	—	—	—
TFB6WH Pack 10	—	—	TT6-6WH Pack 10	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—

Tees continued

Offset
ceiling teeAngle
tee

code	size	pack
MMT2WH	25 x 16mm	30 x 3m
MMT2SFWH	25 x 16mm	30 x 3m

TOCT2/1WH
Pack 10TAT2LHWH
TAT2RHWH
Pack 10

1 gang accessory boxes

Depth	Square or radius	Mini trunking sizes	Knockout entries	Code	Pack
19mm	Square	MMT1/2	LH, RH, Centre	MSSB28WH	20
19mm	Radius	MMT1/2	LH, RH, Centre	MSSB27WH	20
19mm	Square	MMT3	LH, RH, Centre	MSSB110WH	20
19mm	Radius	MMT3	LH, RH, Centre	MSSB112WH	20
25mm	Square	MMT1/2	LH, RH, Centre	MSSB14WH	20
25mm	Square	MMT3	LH, RH, Centre	MSSB114WH	20
28mm	Square	MMT1/2	LH, RH, Centre	MSSB44WH	20
28mm	Radius	MMT3	LH, RH, Centre	MSSB115WH	20
32mm	Square	MMT1/2	LH, RH, Centre	MSSB35WH	20
32mm	Square	MMT3	LH, RH, Centre	MSSB116WH	20
32mm	Radius	MMT1/2	LH, RH, Centre	MSSB20WH	20
32mm	Radius	MMT3	LH, RH, Centre	MSSB118WH	20
44mm	Square	MMT2/3	Centre entry for both MMT2 and MMT3. RH and LH side entry for MMT2.	MSSB18WH	10
44mm	Radius	MMT2/3	For MMT2 = 1 top entry centre For MMT3 = 1 bottom entry centre	MSSB42WH	10
44mm	Square	MMT3	LH, RH, Centre	MSSB120WH	10
44mm	Radius	MMT3	LH, RH, Centre	MSSB122WH	10



1 gang shrouded entry boxes

Depth	Square or radius	Mini trunking sizes	Knockout entries	Code	Pack
32mm	Square	MMT2	With integral moulded MMT2 adaptor	MSSB15WH	20
32mm	Square	MMT4	With integral moulded MMT4 adaptor	MSSB37WH	20
35mm	Square and radius	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)	MSSB100	10



Cover plates

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



Fixing pads and earth terminal

Size	Square or radius	Mini trunking sizes	Description	Code	Pack
19 x 75mm	N/A	N/A	Fixing pads – 2 required per box	MSFP1WH	50
–	–	–	Brass earthing terminal – 15Amp rating	MET1	100



2 gang boxes

Depth	Square or radius	Mini trunking sizes	Knockout entries	Code	Pack
25mm	Square	MMT2	LH, RH, Centre	MSSB13WH	10
25mm	Square	MMT3	LH, RH, Centre	MSSB214WH	10
28mm	Square	MMT2	LH, RH, Centre	MSSB45WH	10
28mm	Radius	MMT3	LH, RH, Centre	MSSB215WH	10
32mm	Square	MMT2	LH, RH, Centre	MSSB36WH	10
32mm	Radius	MMT2	LH, RH, Centre	MSSB22WH	10
32mm	Square	MMT3	LH, RH, Centre	MSSB216WH	10
32mm	Radius	MMT3	LH, RH, Centre	MSSB218WH	10
44mm	Square	MMT2	LH, RH, Centre	MSSB24WH	10
44mm	Radius	MMT2/3	Centre entry	MSSB43WH	10
44mm	Square	MMT3	LH, RH, Centre	MSSB220WH	10
44mm	Radius	MMT3	LH, RH, Centre	MSSB222WH	10



2 x 1 gang box

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



2 gang shrouded entry boxes

Depth	Square or radius	Mini trunking sizes	Knockout entries	Code	Pack
35mm	Square and radius	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)	MSSB200	10



Cover plates

Depth	Square or radius	Mini trunking sizes	Description	Code	Pack
2mm	Square and radius	N/A	Flat	MSCP3WH	20
9mm	Square and radius	N/A	Raised	MSSP20WH	2



Earth terminal

Depth	Square or radius	Mini trunking sizes	Description	Code	Pack
–	–	–	Brass earthing terminal – 15Amp rating	MET1	100



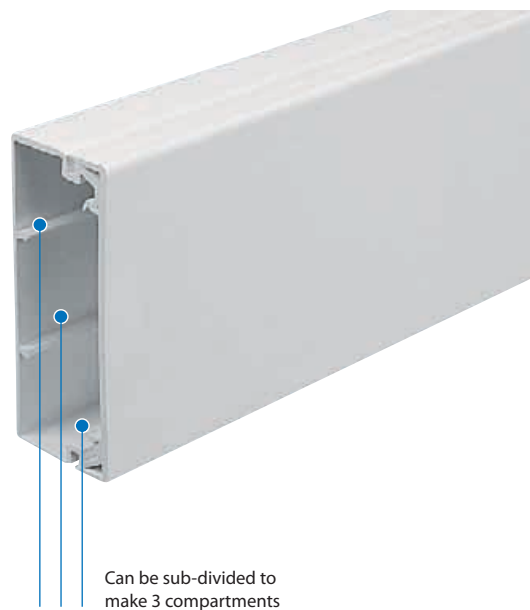
Sceptre trunking is the smallest trunking system that can still accept a full range of standard wiring accessories. It is suitable for unobtrusive, multiple outlet, surface installations.

Product information

- 100 x 25mm
- 100 x 40mm
- Can be sub-divided
- Segregated accessory boxes

Standard colour
WH
WH: White

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 01424 856688.



Can be sub-divided to make 3 compartments

Sceptre profiles



Sceptre DTR2

code	size	pack
DTR2WH	100 x 25mm	4 x 3m



Sceptre DTR1

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

Fittings



Dividing fillets

code	size	pack
DDF2	25mm	10 x 3m
DDF1	40mm	10 x 3m



Coupler

code	size	pack
DCJ2WH	100 x 25mm	5
DCJ1WH	100 x 40mm	5



End cap

code	size	pack
DEC2WH	100 x 25mm	5
DEC1WH	100 x 40mm	5



Cable retainer

code	size	pack
TCRS100	100mm	10



Internal corner

code	size	pack
DIB2MWH	100 x 25mm	5
DIB1WH	100 x 40mm	5



External corner

code	size	pack
DEB2MWH	100 x 25mm	5
DEB1WH	100 x 40mm	5

Fittings

**Flat angle**

code	size	pack
DFB2MWH	100 x 25mm	5
DFB1WH	100 x 40mm	5

**Flat tee (fabricated)**

code	size	pack
DFT2WH	100 x 25mm	1
DFT1WH	100 x 40mm	1

Boxes

**1 gang accessory box**

code	pack
TSS01WH	10

**2 gang accessory box**

code	pack
TSS02WH	5

Assembly

The segregated accessory box has a 2 part assembly and an internal depth of 25mm. It is for use with DTR1 (100 x 40mm) trunking only.

Plates

**1 gang accessory plate**

code	pack
MTSPS1WH	15

Note: For use with both DTR1 and DTR2

**2 gang accessory plate**

code	pack
MTSPS2WH	15

Note: For use with both DTR1 and DTR2



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

Product information

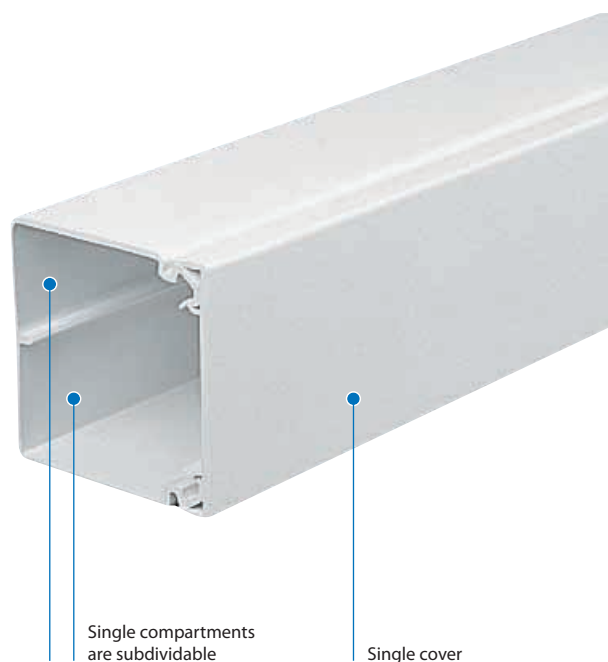
- A variety of sizes from 50 x 50mm to 150 x 150mm
- Single or divided compartment options

Data information

- Fabricated data slow bends

Standard colour
WH
WH: White

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 01424 856688.



Trunking profiles



MTR50

code	size	pack
MTRS50WH	50 x 50mm	8 x 3m



MTR75/50

code	size	pack
MTRS75/50WH	75 x 50mm	4 x 3m



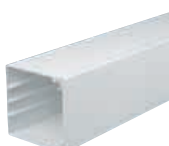
MTR75

code	size	pack
MTRS75WH	75 x 75mm	4 x 3m



MTR100/50

code	size	pack
MTRS100/50WH	100 x 50mm	4 x 3m



MTR100

code	size	pack
MTRS100WH	100 x 100mm	4 x 3m



MTR150

code	size	pack
MTRS150WH	150 x 150mm	2 x 3m

Components



Dividing fillet

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

Clear maxi trunking

is available and particularly useful for high security installations. For further information please contact our technical team on 01424 856688.



Fittings

**Clip on fittings**

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

**Fabricated 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.

Components

***RCD/MCB housing**

code	pack
TAHC1WH	1

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex

**Mini trunking adaptor**

code	size	pack
TTA2WH	MMT2	10
TTA4WH	MMT4	10

Note: only for 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	MTRS75 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
TTRS12WH	MTRS150 TO MTRS100/50	1

**Accessory box dividing fillet**

code	box size	pack
MDFS15/3	TSS03	2
MDFS15/4	TSS04	2

MTRS100/50 only

**Spacer – 25mm**

code	pack
MTRS100LID25WH	20

For use between accessory boxes

Boxes

**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

		Fittings					
		Dividing fillet	Cable retainer	External coupler	Internal coupler	Flanged coupler	End cap
							
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
MTRS75/75WH	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	TFCS150WH Pack 2	TECS150WH Pack 1

		Flat angles				
		90° flat angle (clip-on)	90° flat angle (moulded)	90° flat angle (fabricated)	90° data flat angle (fabricated)	135° flat angle (fabricated)
						
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	—	TFAS75/50ABWH Pack 1
MTRS75WH	75 x 75mm	—	TFAS75MWH Pack 1	TFAS75FWH Pack 1	TFAS75SBWH Pack 1	TFAS75ABWH Pack 1
MTRS100/50WH	100 x 50mm	TFAS100/50CWH Pack 1	—	TFAS100/50FWH Pack 1	—	TFAS100/50ABWH Pack 1
MTRS100WH	100 x 100mm	—	—	TFAS100FWH Pack 1	TFAS100SBWH Pack 1	TFAS100ABWH Pack 1
MTRS150WH	150 x 150mm	—	—	TFAS150FWH Pack 1	—	—

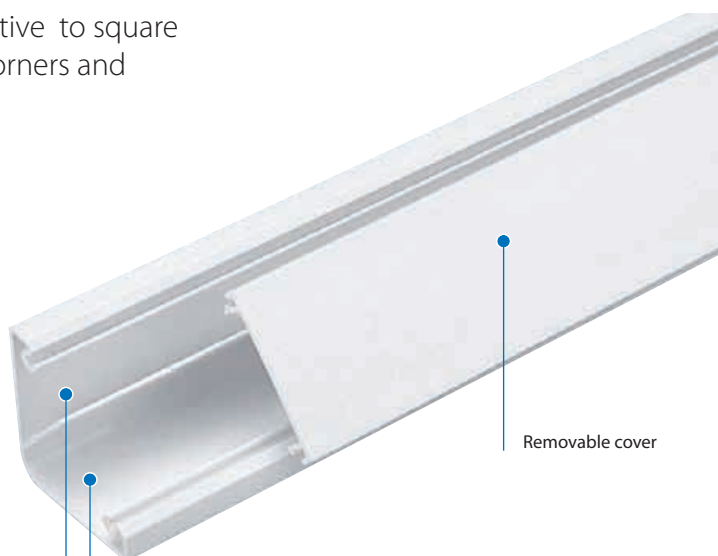
Internal bends					External bends				
Internal 90° bend (clip-on)	Internal 90° bend (moulded)	Internal 90° bend (fabricated)	Internal 90° Data bend (fabricated)	Internal 135° Data bend (fabricated)	External 90° bend (clip-on)	External 90° bend (moulded)	External 90° bend (fabricated)	External 90° Data bend (fabricated)	External 135° bend (fabricated)
TIAS50CWH Pack 1	TIAS50MWH Pack 1	TIAS50FWH Pack 1	TIAS50SBWH Pack 1	TIAS50SHABWH Pack 1	TOAS50CWH Pack 1	TOAS50MWH Pack 1	TOAS50WH Pack 1	TOAS50SBWH Pack 1	TOAS50ABWH Pack 1
-	-	TIAS75/50FWH Pack 1	-	TIAS75/50ABWH Pack 1	-	-	TOAS75/50WH Pack 1	-	TOAS75/50ABWH Pack 1
-	-	TIAS75FWH Pack 1	TIAS75SBWH Pack 1	TIAS75ABWH Pack 1	-	-	TOAS75WH Pack 1	TOAS75SBWH Pack 1	TOAS75ABWH Pack 1
-	-	TIAS100/50FWH Pack 1	-	TIAS100/50ABWH Pack 1	TOAS100/50CWH Pack 1	-	TOAS100/50WH Pack 1	-	TOAS100/50ABWH Pack 1
TIAS100/50CWH Pack 1	-	TIAS100FWH Pack 1	TIAS100SBWH Pack 1	TIAS100ABWH Pack 1	-	-	TOAS100WH Pack 1	TOAS100SBWH Pack 1	TOAS100ABWH Pack 1
-	-	TIAS150FWH 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)	Data flat crossover (gusseted)
-	TFTS50WH Pack 1	TFTS50GTWH Pack 1	TTES50WH Pack 1	TTIS50WH Pack 1	TCUS50WH Pack 1	TCUS50GTWH Pack 1
-	TFTS75/50WH Pack 1	-	TTES75/50WH Pack 1	TTIS75/50WH Pack 1	TCUS75/50WH Pack 1	-
TFTS75/50MWH Pack 1	TFTS75WH Pack 1	TFTS75GTWH Pack 1	TTES75WH Pack 1	TTIS75WH Pack 1	TCUS75WH Pack 1	TCUS75GTWH Pack 1
-	TFTS100/50WH Pack 1	-	TTES100/50WH Pack 1	TTIS100/50WH Pack 1	TCUS100/50WH Pack 1	-
-	TFTS100WH Pack 1	TFTS100GTWH Pack 1	TTES100WH Pack 1	TTIS100WH Pack 1	TCUS100WH Pack 1	TCUS100GTWH Pack 1
-	TFTS150WH Pack 1	-	TTES150WH Pack 1	TTIS150WH Pack 1	TCUS150WH Pack 1	-

Angled cableway is a small unobtrusive alternative to square systems particularly suitable for running into corners and along desks or benches.

Product information

- 34 x 34mm
- Single or divided compartment options
- Suitable for horizontal or vertical mounting
- Suitable for service drops in corners
- Suitable for mounting accessory outlet boxes
- Removable cover
- Can be used with Cornice trunking



Standard colour
WH
WH: White

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 01424 856688.

Single or divided compartment options

Trunking profiles



Angled trunking
1 compartment

code	size	pack
12003WH	34 x 34mm	8 x 3m



Angled trunking
2 compartment

code	size	pack
12004WH	34 x 34mm	8 x 3m

Fittings



End cap

code	description	pack
12006WH	1 or 2 comp	10



Cornice adaptor

code	description	pack
12007WH	1 or 2 comp	10



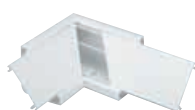
Flange trunking adaptor

code	description	pack
12008WH	1 or 2 comp	10



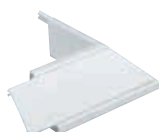
Internal bend – fabricated

code	description	pack
12041WH	1 comp	1



Internal bend – fabricated

code	description	pack
12051WH	2 comp	1



External bend – fabricated

code	description	pack
12042WH	1 comp	1



External bend – fabricated

code	description	pack
12052WH	2 comp	1



Internal angled tee – fabricated

code	description	pack
12043WH	1 comp	1



1 gang accessory box – plain	
code	pack
12010WH	10



2 gang accessory box – plain	
code	pack
12020WH	5



1 gang accessory box left hand entry	
code	pack
12011WH	10



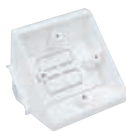
2 gang accessory box left hand entry	
code	pack
12021WH	5



1 gang accessory box right hand entry	
code	pack
12012WH	10



2 gang accessory box right hand entry	
code	pack
12022WH	5



1 gang accessory box through with segregator	
code	pack
12013WH	10



2 gang accessory box through with segregator	
code	pack
12023WH	5



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

Product information

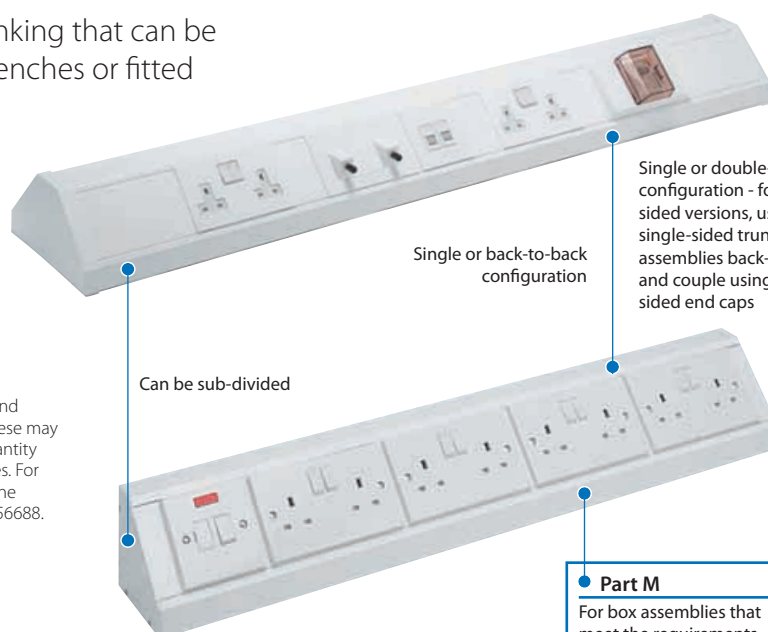
- 105 x 105mm
- Suitable for desk, bench or worktop applications
- Can be subdivided
- Fully compatible with Marshall-Tufflex and UK standard power and data accessories

Data information

- Adjustable data box 32-40mm
- Screened divider and data boxes

Standard colour
WH
WH: White

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 01424 856688.



Part M

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



Trunking and fittings



Trunking assembly

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



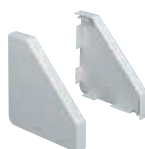
Dividing fillet

code	pack
BDF105WH	4 x 3m



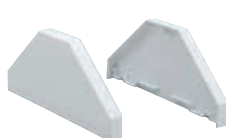
Coupler

code	pack
BTC105WH	1



Single sided end caps

code	pack
BEC105WH	2



Double sided end caps

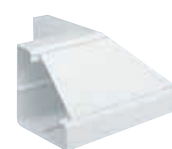
code	pack
BECP105WH	2



Internal bend

code	pack
BIA105WH	1

Couplers required with bends



External bend

code	pack
BEA105WH	1

Couplers required with bends

Bench units



1 gang single sided unit

code	pack
MBU1WH	1



1 gang single sided unit with ESS1 socket

code	pack
MBS1WH	1



1 gang double sided unit

code	pack
MDBU1WH	1



2 gang single sided unit

code	pack
MBU2WH	1



2 gang single sided unit with ESS2 socket

code	pack
MBS2WH	1



2 gang double sided unit

code	pack
MDBU2WH	1

Bench units

1 plus 2 gang
single sided unit

code	pack
MBU3WH	1

1 plus 2 gang
double sided unit

code	pack
MDBU3WH	1

Components



*RCD/MCB housing

code	pack
BAHC1WH	1

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex

Boxes and plates



1 gang accessory box

code	depth	pack
ESSB1WH	30mm	20



2 gang accessory box

code	depth	pack
ESSB2WH	30mm	10

Part M

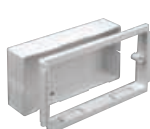
1 and 2 gang box assemblies with coloured flush plates are available to comply with the requirements of Part M (DDA).



code	description	pack
ESPM1BU	1 gang - blue plate	1
ESPM1CH	1 gang - charcoal plate	1
ESPM1RD	1 gang - red plate	1
ESPM2BU	2 gang - blue plate	1
ESPM2CH	2 gang - charcoal plate	1
ESPM2RD	2 gang - red plate	1

1 gang adjustable
depth box

code	depth	pack
EAB1WH	32 – 50mm	10

2 gang adjustable
depth box

code	depth	pack
EAB2WH	32 – 50mm	5



1 gang accessory plate

code	pack
ESSP1WH	10



2 gang accessory plate

code	pack
ESSP2WH	5

13Amp DP
1 gang switched socket
Twin earth, front fix

code	pack
ESS1WH	1

13Amp DP
2 gang switched socket
Twin earth, front fix

code	pack
ESS2WH	1

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide 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.



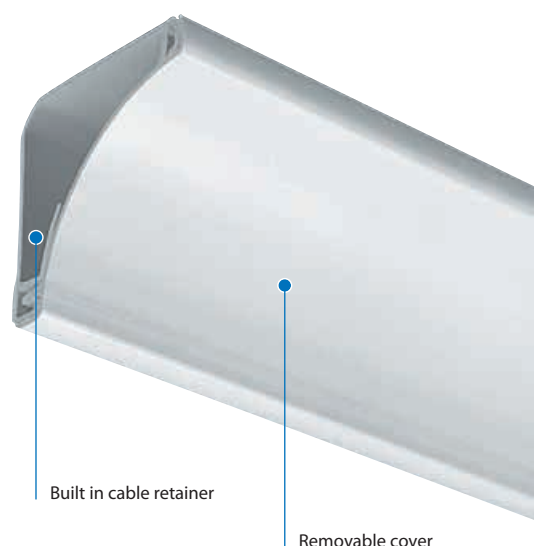
Cornice trunking provides elegant and unobtrusive concealment for surface wiring around ceilings.

Product information

- 50 x 50mm
- Designed for use with MMT1 and MMT2 mini trunking (see page 148) and Angled Cableway (see page 160)
- 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

Standard colour
WH
WH: White

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 01424 856688.



Cornice trunking

code	size	pack
MCT1WH	50 x 50	8 x 3m



Coupler

code	pack
MCTC1WH	10



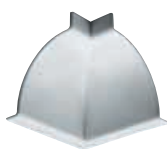
End cap

code	pack
MCEC1WH	10



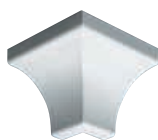
Cable retainer

code	pack
MCBP1	10



Internal bend

code	pack
MCIB1WH	10



External bend

code	pack
MCEB1WH	10



Corner adaptor LH to Mini trunking

code	size	pack
MCCD1LHWH	MMT1	10
MCCD2LHWH	MMT2	10



Corner adaptor RH to Mini trunking

code	size	pack
MCCD1RHWH	MMT1	10
MCCD2RHWH	MMT2	10



Corner adaptor to Angled cableway

code	pack
12007WH	10



Trunking adaptor to MMT1 Mini trunking

code	pack
MCTA1WH	10



Trunking adaptor to MMT2 Mini trunking

code	pack
MCTA2WH	10

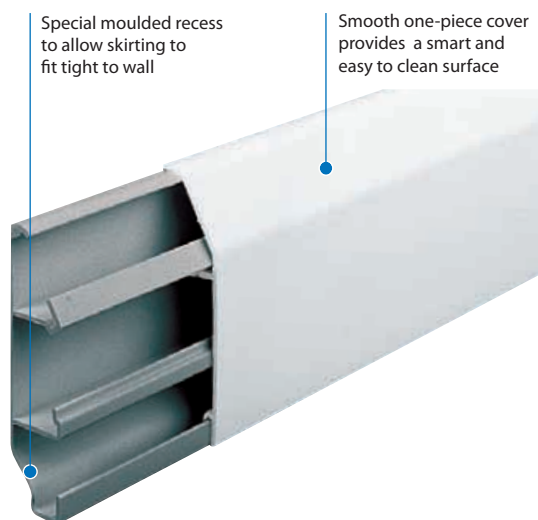
Sovereign Plus skirting and architrave trunking is a slim trunking system suitable for installation into hotels, small offices and houses. The architrave sections allow the trunking to carry cables over and around doors.

Product information

- 75 x 20mm
- 3 compartments
- Suitable for skirting and architrave applications
- Overlapping fittings
- Accessory boxes designed to accept square and radiused corner accessories
- Can be used with mini trunking

Standard colour
WH
WH: White

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 01424 856688.



Basic trunking

**Skirting trunking**

code	size	pack
JE03WH	75 x 20	8 x 3

**Coupler**

code	pack
JM22WH	20

**End cap**

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

**Cable retainer**

code	pack
JM28	100

Fittings and boxes

**Internal corner**

code	pack
JM23WH	10

**External corner**

code	pack
JM24WH	10

**MMT2 adaptor (in line)**

code	size	pack
JM25WH	25 x 16	10

**MMT3 adaptor stop end**

code	size	pack
JM26WH	(right hand) 38 x 16mm	5
JM27WH	(left hand) 38 x 16mm	5

**1 gang skirting accessory box**

code	depth	pack
JM41WH	32mm	5

**2 gang skirting accessory box**

code	depth	pack
JM42WH	32mm	3

**Skirting to architrave adaptor**

code	pack
KM10WH	(left hand) 4
KM11WH	(right hand) 4

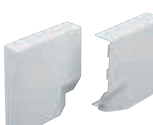
Architrave trunking

**Architrave trunking**

code	size	pack
KE03WH	75 x 20	8 x 3m

**Skirting to architrave adaptor**

code	pack
KM10WH	(left hand) 4
KM11WH	(right hand) 4

**Flat bend**

code	pack
KM12WH	8

**1 gang architrave accessory box**

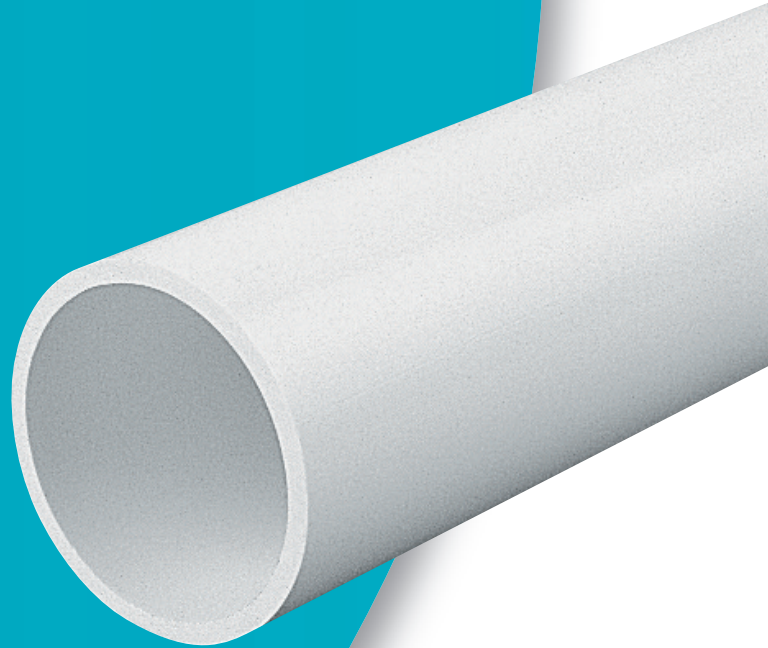
code	depth	pack
KM31WH	32mm	5



Conduit systems

www.marshall-tufflex.com

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.



PVC-U Round conduit and fittings are made from recyclable PVC-U.

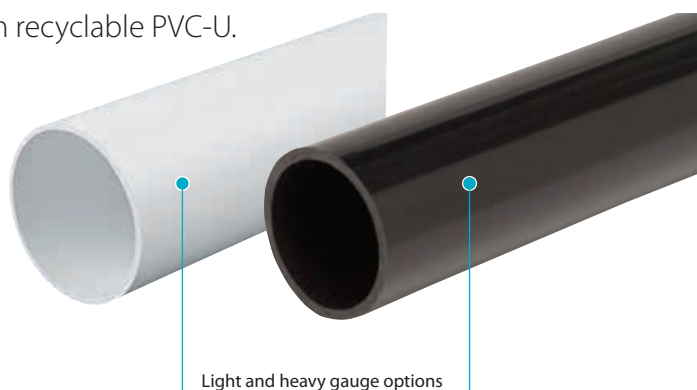
Product information

CONDUIT

- Light or heavy gauge options
- Exceeds BS and EN standards

BOXES

- Provision for MET1 brass earth terminal
- Meet requirements for BS 4607, BS EN 50086 and BS EN 61386 where applicable
- All boxes have brass inserts



Light and heavy gauge options

Standard colours

WH

BK

WH: White BK: Black

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

For black replace the last two letters of the code with BK

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

For black replace the last two letters of the code with BK

FIRE SECURITY

Products are also available in red for fire and security installations. To view these, please refer to the Fire and Security containment systems section on page 213 or contact our Customer Service team on 01424 856600.

Round conduit fittings



Expansion couplers

code	size	pack
MEC2WH	20mm	25
MEC3WH	25mm	10
MEC4WH	32mm	10
MEC5WH	38mm	10
MEC6WH	50mm	5

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



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
MPP5	38mm	50
MPP6	50mm	50



Inspection elbows

code	size	pack
MIE2WH	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

*Couplers required

**Adaptors (Female thread)**

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

**Adaptors (Male thread)**

code	size	pack
MA7WH	20mm	100
MA8WH	25mm	50

**Adaptors (Clip-in spout)**

code	size	pack
MCA2WH	20mm	100
MCA3WH	25mm	50

**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
MSS6WH	50mm	25

**Spacer bar saddles**

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

**Spacer bar snap saddle**

code	size	pack
MSBS2WH	20mm	100

**Threaded cable gland**

code	size	cable size	pack
MCG2WH	20mm	ø7-10.5	100
MCG2AWH	20mm	ø4-7	25
MCG3WH	25mm	ø8-13	25
MCG3AWH	20mm	ø12-18	25
MCG4WH	32mm	ø18-24	10

**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
MCGP2AWH	20mm	ø4-7	25

**Conduit to mini adaptor**

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

Circular boxes



Loop-in boxes

code	size	pack
0MRB12WH	plain	20
2MRB12WH	4 x ø20mm KO	20
3MRB12WH	2 x ø25mm KO	20



Terminal

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



Through

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

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



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



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



Back outlet

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



Terminal/back outlet

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



Through/back outlet

code	size	pack
2MRB8WH	20mm	20
3MRB8WH	25mm	10



Angle/back outlet

code	size	pack
2MRB9WH	20mm	20
3MRB9WH	25mm	10



Tee/back outlet

code	size	pack
2MRB10WH	20mm	20
3MRB10WH	25mm	10



4-way/back outlet

code	size	pack
2MRB11WH	20mm	20
3MRB11WH	25mm	10

Circular box fittings



Circular rubber gasket

code	size	pack
MRG1BK	66mm diam	100

** Black only



Circular lids

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



Brass earthing terminal

code	rating	pack
MET1	15Amp	100



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

**Terminal**

code	size	pack
4SJB1WH	32mm	1
5SJB1WH	38mm	1

**Through**

code	size	pack
4SJB2WH	32mm	1
5SJB2WH	38mm	1

Square boxes

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

**Angle**

code	size	pack
4SJB3WH	32mm	1
5SJB3WH	38mm	1

**Tee**

code	size	pack
4SJB4WH	32mm	1
5SJB4WH	38mm	1

**Four-way**

code	size	pack
4SJB5WH	32mm	1
5SJB5WH	38mm	1

***Conduit solvent cement**

code	pack
MSC20	1x250ml

*Child resistant lid

**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
MBSL5	38mm	1
MBSL6	50mm	1

**Nylon draw tape**

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

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

**Cheese head screws**

code	pack
M4 x 8mm	200
M4 x 12mm	200
M4 x 20mm	100
M4 x 25mm	100

**Channel (white only)**

code	dimensions	pack
ECC21WH	13 x 8mm	50 x 2m
ECC22WH	25 x 9mm	50 x 2m
ECC23WH	38 x 9mm	50 x 2m

**Corrugated conduit (PVC-U) (white)**

code	O.D	pack
CC2000WH	20mm	1 x 50m
CC2000BK	20mm	1 x 50m
CC2500WH	25mm	1 x 50m
CC2500BK	25mm	1 x 50m

**Straight adaptors (nylon)**

code	size	pack
CC2010WH	20mm	25
CC2010BK	20mm	25
CC2510WH	25mm	25
CC2510BK	25mm	25

Surface mounted

**1 gang – square corners**

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

**2 gang – square corners**

code	depth	pack
*MSSB11KWH	32mm	10
MSSB23KWH	44mm	5

**1 gang – radius corners**

code	depth	pack
MSSB19KWH	32mm	20
MSSB46KWH	28mm	20
MSSB40KWH	44mm	10

**2 gang – radius corners**

code	depth	pack
MSSB48KWH	28mm	10
MSSB21KWH	32mm	10
MSSB41KWH	44mm	5

*All standard surface boxes have 20mm KOs except MSSB10K and MSSB11K which have 20mm pre-punched holes

Flush mounted

**1 gang – adjustable lug**

code	depth	pack
MSSB25WH	25mm	20
MSSB1WH	35mm	12
MSSB47WH	47mm	10

Entries: 2 x ø20mm on each of 3 sides (MSSB25) Entries: 2 x ø20mm on each of 4 sides (MSSB1 and MSSB47)

**1 gang – fixed lug**

code	depth	pack
MSSB2WH	35mm	12

Entries: 2 x ø20mm on each of 4 sides

**2 gang – adjustable lug**

code	depth	pack
MSSB3WH	35mm	6

Entries: 4 x ø20mm on horizontal sides, 2 x ø20mm on vertical sides

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

**1 gang – raised**

code	depth	pack
MSSP10WH	9mm	10

Size: 85 x 85mm O/A

**Flush mounted 1 gang cover – clip-on**

code	depth	pack
MSCP1WH	5.3mm	20

Size: 78 x 78mm O/A

**2 gang – flat**

code	depth	pack
MSCP3WH	2mm	10

Size: 86 x 146mm O/A

**2 gang – raised**

code	depth	pack
MSSP20WH	9mm	2

Size: 85 x 145mm O/A

**Brass earthing terminal**

code	rating	pack
MET1	15Amp	100

PVC-U Oval conduit and fittings are typically used to protect cables buried in shallow voids or chased into walls.

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 Extra super high impact

code	O.D	Dimensions	Pack
ECO16WH	13mm	13 x 8mm	50 x 3m
ECO17WH	16mm	16 x 10mm	50 x 3m
ECO18WH	20mm	23 x 11mm	50 x 3m
ECO19WH	25mm	29 x 11mm	20 x 3m
ECO20WH	32mm	32 x 11mm	20 x 3m

Oval clips

code	size	pack
MOC1WH	13mm	100
MOC2WH	16mm	100
MOC3WH	20mm	100
MOC4WH	25mm	100
MOC5WH	32mm	100



Oval strap saddle

code	size	pack
MOCSS20WH	20mm	50
MOCSS25WH	25mm	50

Oval bush

code	size	pack
MOCB20WH	20mm	25
MOCB25WH	25mm	25

Oval connector

code	size	pack
MOC20WH	20mm	25
MOC25WH	25mm	25

Oval to round adaptors

code	size	pack
MOR2WH	20mm oval/ ø20mm	50

Flush mounted boxes



1 gang - adjustable lug

code	depth	pack
MSSB6WH	16mm	20

Entries: 2 x 16mm oval for ECO17,
1 x 20mm oval for ECO18
O/D = 74 x 74mm
fixing centre: 60.3mm

1 gang - adjustable lug

code	depth	pack
MSSB1S0WH	35mm	12

Entries: 1 x 20mm oval for ECO18,
1 x 25mm oval for ECO19
O/D = 74 x 74mm
fixing centre: 60.3mm

2 gang - adjustable lug

code	depth	pack
MSSB3S0WH	35mm	6

Entries: 1 x 20mm oval for ECO18,
1 x 25mm oval for ECO19
O/D = 134 x 74mm|
Fixing centre: 120.6mm

Surface mounted boxes



1 gang - radius corners

code	depth	pack
MSSB7WH	19mm	20

Entries: 1 x 16mm oval in top for
surface entry
O/D = 87 x 87mm
Fixing centre: 60.3mm

1 gang - square corners

code	depth	pack
MSSB12WH	25mm	20

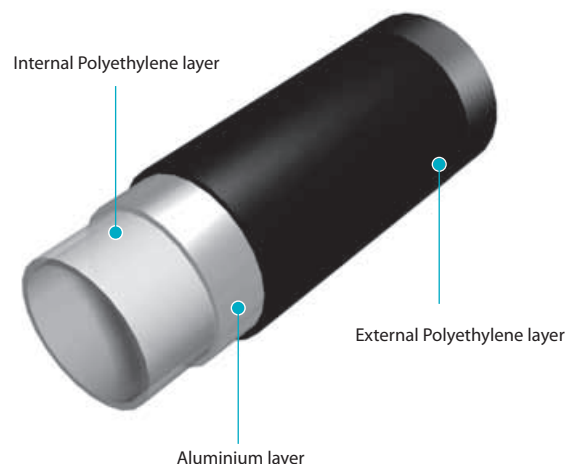
Entries: 2 x 16mm oval in top for
surface entry
O/D = 87 x 87mm
Fixing centre: 60.3mm

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/EMC screening performance and is a practical and cost-saving alternative to standard galvanised conduits.

Product information

- 20mm and 25mm
- 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
- Suitable for in-screed applications
- Withstands temperatures from -40°C to $+120^{\circ}\text{C}$
- Nail penetration: MT Supertube complies with requirements for BS 7671, BS 8436 and BS EN 61386



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. Other colour options are available but may be subject to longer lead times and minimum order quantities. For further information contact the Technical Team on 01424 856688.

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). For more information please refer to page 215 of Fire and Security Containment Systems or call the Technical Team on 01424 856688.

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

Boxes (metal)



Terminal box

code	size	pack
22072BK	20mm	10
22572BK	25mm	10



Tee box

code	size	pack
22075BK	20mm	10
22575BK	25mm	10

MT Supertube EMC/EMI 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 requirements of BS 7671
- Taper push-fit conduit entry



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	10

Fittings (metal)

Female adaptor
with brass bush

code	size	pack
22077BK	20mm	10
22577BK	25mm	10



Male adaptor thread insert

code	size	pack
22078MF	20mm	10
22578MF	25mm	10



Coupler

code	size	pack
22079BK	20mm	10
22579BK	25mm	10

Fittings (polycarbonate)

Spacer bar snap saddle
LSOH

code	size	pack
22051BK	20mm	100

Spacer bar saddle
LSOH

code	size	pack
22552BK	25mm	100

U-clip
LSOH

code	size	pack
22053BK	20mm	100
22553BK	25mm	50

Boxes (polycarbonate)



Loop-in box

code	size	pack
22011BK	2 x ø20mmKO	20
22511BK	2 x ø25mmKO	20



Terminal box

code	size	pack
22012BK	20mm	20
22512BK	25mm	20



Through box

code	size	pack
22013BK	20mm	20
22513BK	25mm	20

MT Supertube LSOH boxes and fittings

- Suitable of 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 requirements of BS 7671 Wiring Regulations and BS 4607 where applicable.



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

Fittings (polycarbonate)



Male adaptor

code	size	pack
22042BK	20mm	25
22542BK	25mm	25



Clip-in-spout

code	size	pack
22043BK	20mm	25
22543BK	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

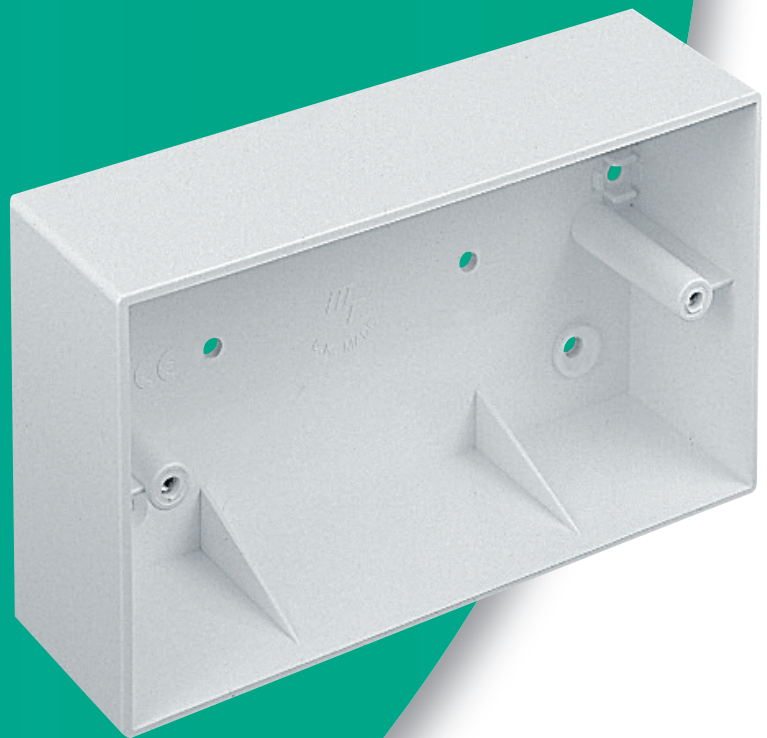
code	size	pack
20006	30ml	1x250ml

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

Accessory boxes and enclosures

www.marshall-tufflex.com

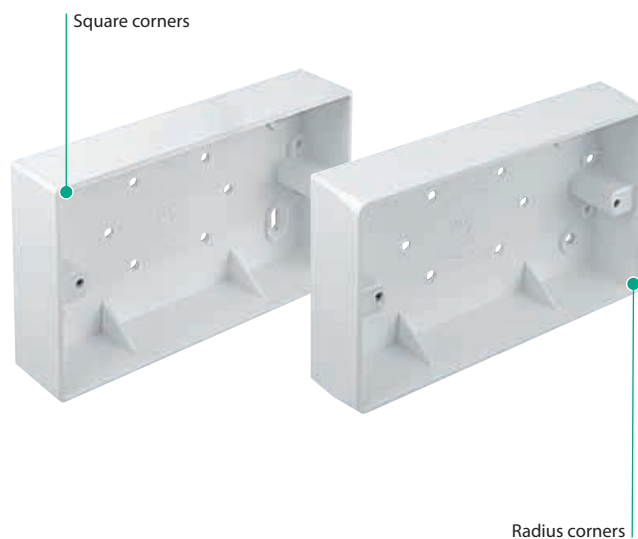
Surface and flush accessory boxes and enclosures are manufactured from super high impact PVC-U.



Standard fixed accessory boxes without knockouts for surface installation.

Product information

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



Standard colour
WH
WH: White

Square corners



1 gang accessory box
Square corners

code	depth	pack
MSSB9WH	25mm	20
MSSB10WH	32mm	20
MSSB17WH	44mm	10



2 gang accessory box
Square corners

code	depth	pack
MSSB8WH	25mm	10
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
MSSB48WH	28mm	10
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



Raised cover plate – raised

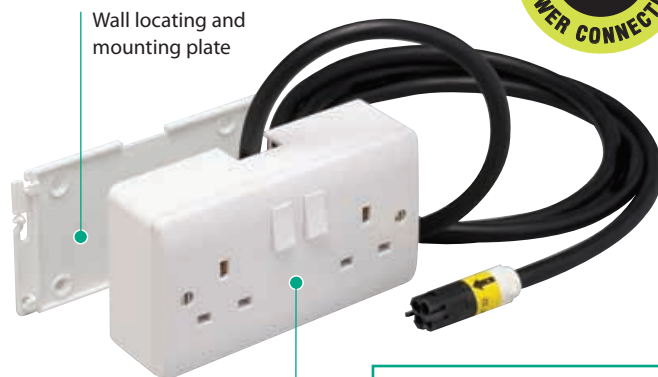
code	description	pack
MSSP10WH	1 gang	10
MSSP20WH	2 gang	10

Depth 9mm

Prefabricated surface mount boxes are complete, pre-wired accessory modules for surface installations that provide easy positioning and fast-fix connection of pre-wired accessories.

Product information

- Fully tested and assembled with 2.0m of LSOH flex, 3 pole standard MT32 connectors and wiring accessories
- Supplied complete with fast-fix surface mounting plate
- Fixing plate easily positioned and independent of electrical assembly
- Fire barrier pads can be fitted to meet the requirements of UK Building Regulations
- Acoustic hoods can be fitted to meet the requirements of UK Building Regulations
- Zero harm – no cutting required on site.
- Reduced health & safety risk.
- Zero waste on site.
- Helps reduce LTIs (Lost Time Injuries) on site
- Sustainable and re-usable
- Can be used with MMT2 and MMT4 Mini trunking



Wall locating and mounting plate

Enclosed accessory and back box (Terminal box shown)



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 01424 856688.

Terminal boxes



1 gang terminal box
Square corners

code	depth	cable size	pack
AC1120	45.5mm	2.5mm ²	1



2 gang terminal box
Square corners

code	depth	cable size	pack
AC1220	45.5mm	2.5mm ²	1



1 gang terminal
Radius corners

code	depth	cable size	pack
AC2120	43mm	2.5mm ²	1



2 gang terminal
Radius corners

code	depth	cable size	pack
AC2220	43mm	2.5mm ²	1

Through boxes



1 gang through box
Square corners

code	depth	cable size	pack
AC3120	45.5mm	2.5mm ²	1



2 gang through box
Square corners

code	depth	cable size	pack
AC3220	45.5mm	2.5mm ²	1



1 gang through box
Radius corners

code	depth	cable size	pack
AC4120	43mm	2.5mm ²	1



2 gang through box
Radius corners

code	depth	cable size	pack
AC4220	43mm	2.5mm ²	1

Components

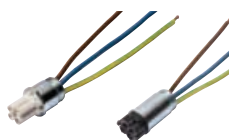


Extension cables 2.5mm²

code	length	pack
AA3330	0.5m	1
AA3331	1.0m	1
AA3332	1.5m	1
AA3333	3.0m	1
AA3335	5.0m	1

Extension cables

For availability of non-standard lengths, please call the Technical Team on 01424 856688



Male & female adaptors
2.5mm²

code	pack
AA7211 (Male)	1
AA7212 (Female)	1

For connection to distribution board



Tee/Splitter - F/MM 2.5mm²

code	pack
AA7112	1

Mini trunking options



MMT2 is suitable for use with terminal boxes.



MMT4 is suitable for use with through boxes.

Note:

For Mini Trunking please refer to section PVC-U Domestic and General Trunking on page 148.

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 for accurate positioning and alignment.

Product information

- Wide securing flange
- Swivelling snap out clamps will grip any standard thickness of building board tightly
- Earth terminal provision incorporated
- British Patent Application No. 8208041

Standard colour
WH
WH: White

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



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
MDLB20WH	1-9mm	5
MDLB22WH	6-14mm	5
MDLB24WH	18-25mm	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 217 in our Fire and Security section or contact our Technical Team on 01424 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

Accessory



Brass earthing terminal

code	Rating	pack
MET1	15 Amp	100



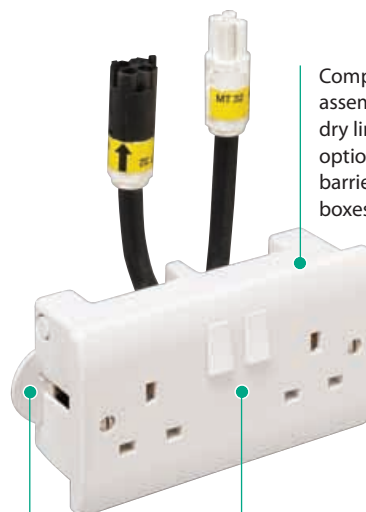
Acoustic hoods

code	description	pack
MDLA1	1 gang	10
MDLA2	2 gang	10

Prefabricated dry lining boxes are complete pre-wired accessory modules that provide fast connection and easy installation, positioning and fixing. Boxes are designed to be installed in dry wall board up to 32mm and alleviate the necessity for using noggins.

Product information

- Fully tested and assembled with accessory face plate and MT32 connector attached
- Boxes feature a wide securing flange around the outer rim to assist in alignment and positioning
- Unique locking mechanism grips the dry wall board firmly and securely
- 1 gang and 2 gang boxes available with 2.5mm² cables* to fit apertures of 73 x 73mm and 153 x 73mm
- For 4.0mm² cable please call the Technical Team on 01424 856688
- Fire barrier pads can be fitted to meet the requirements of UK Building Regulations
- Acoustic hoods can be fitted to meet the requirements of UK Building Regulations
- Zero harm – no cutting required on site.
- Reduced health & safety risk.
- Zero waste on site.
- Helps reduce LTIs (Lost Time Injuries) on site
- Sustainable and re-usable



Complete pre-wired pre-assembled accessory and dry lining box with optional intumescent fire barrier pads (Through boxes shown).

Fast-fit locking mechanism

Boxes shaped to permit easy entry into double skin wall

Terminal boxes



1 gang terminal box

code	depth	cable size	pack
AD6121	37mm	2.5mm ²	1

1 gang terminal box with intumescent fire barrier pads

code	depth	cable size	pack
AD6129	37mm	2.5mm ²	1



2 gang terminal box

code	depth	cable size	pack
AD6221	37mm	2.5mm ²	1

2 gang terminal box with intumescent fire barrier pads

code	depth	cable size	pack
AD6229	37mm	2.5mm ²	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 01424 856688.

Through boxes



1 gang through box

code	depth	cable size	pack
AD6321	37mm	2.5mm ²	1

1 gang through box with intumescent fire barrier pads

code	depth	cable size	pack
AD6329	37mm	2.5mm ²	1



2 gang through box

code	depth	cable size	pack
AD6421	37mm	2.5mm ²	1

2 gang through box with intumescent fire barrier pads

code	depth	cable size	pack
AD6429	37mm	2.5mm ²	1

*Cable size

MT32 Dry Lining boxes can also be supplied with 4.0mm² cabling. For more information on this, please contact the Technical Team on 01424 856688.

Components



Extension cables 2.5mm²

code	length	pack
AA3330	0.5m	1
AA3331	1.0m	1
AA3332	1.5m	1
AA3333	3.0m	1
AA3335	5.0m	1

Extension cables

For availability of non-standard lengths, please call the Technical Team on 01424 856688



Male & female adaptors 2.5mm²

code	pack
AA7211 (Male)	1
AA7212 (Female)	1

For connection to distribution board



Tee/Splitter - F/MM 2.5mm²

code	pack
AA7112	1



Acoustic hoods

code	description	pack
MDLA1	1 gang	10
MDLA2	2 gang	10

Circular flush mounted boxes

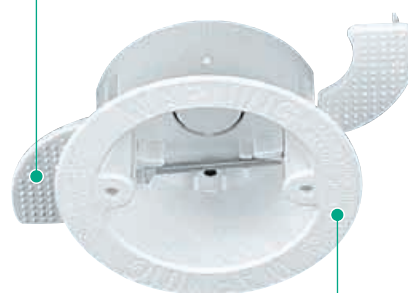
Product information

- 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

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 01424 856688.

Snap out clamps with size identification by colour:



Wide securing flanges



Single back entry
34mm internal depth (white clamps)

code	fix. centre	pack
MDCRB1WH	50.8mm	10
Ø cut out = 64mm		



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

code	fix. centre	pack
MDCRB2WH	50.8/60.3mm	10
Ø cut out = 70mm		

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 217 in our Fire and Security section or contact our Technical Team on 01424 856688.



Dry lining boxes

Ceiling connections

Product information

- For terminating light fittings when a terminal ceiling rose is not practical.
- Useful with chandeliers and other types of ceiling hung light fittings.
- Built in earth terminal.
- Suitable for most types of ceiling void.
- Encloses termination when used in conjunction with a suitable accessory (BS 7671).



Ceiling connector box
Red only

code	pack
MCCB1RD	10

Does not support the electrical fitting

Moulded enclosures

Product information

- Degree of Protection IP66.
- Optional insulated accessory mounting plate.
- 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.



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



Insulated accessory mounting plates

code	pack
MTMP75WH	1
MTMP100WH	1
MTMP150WH	1

Earth rod box

Product information

- Protects connection to earth rod.
- Earth rod/cable entry ø7-10.5mm.



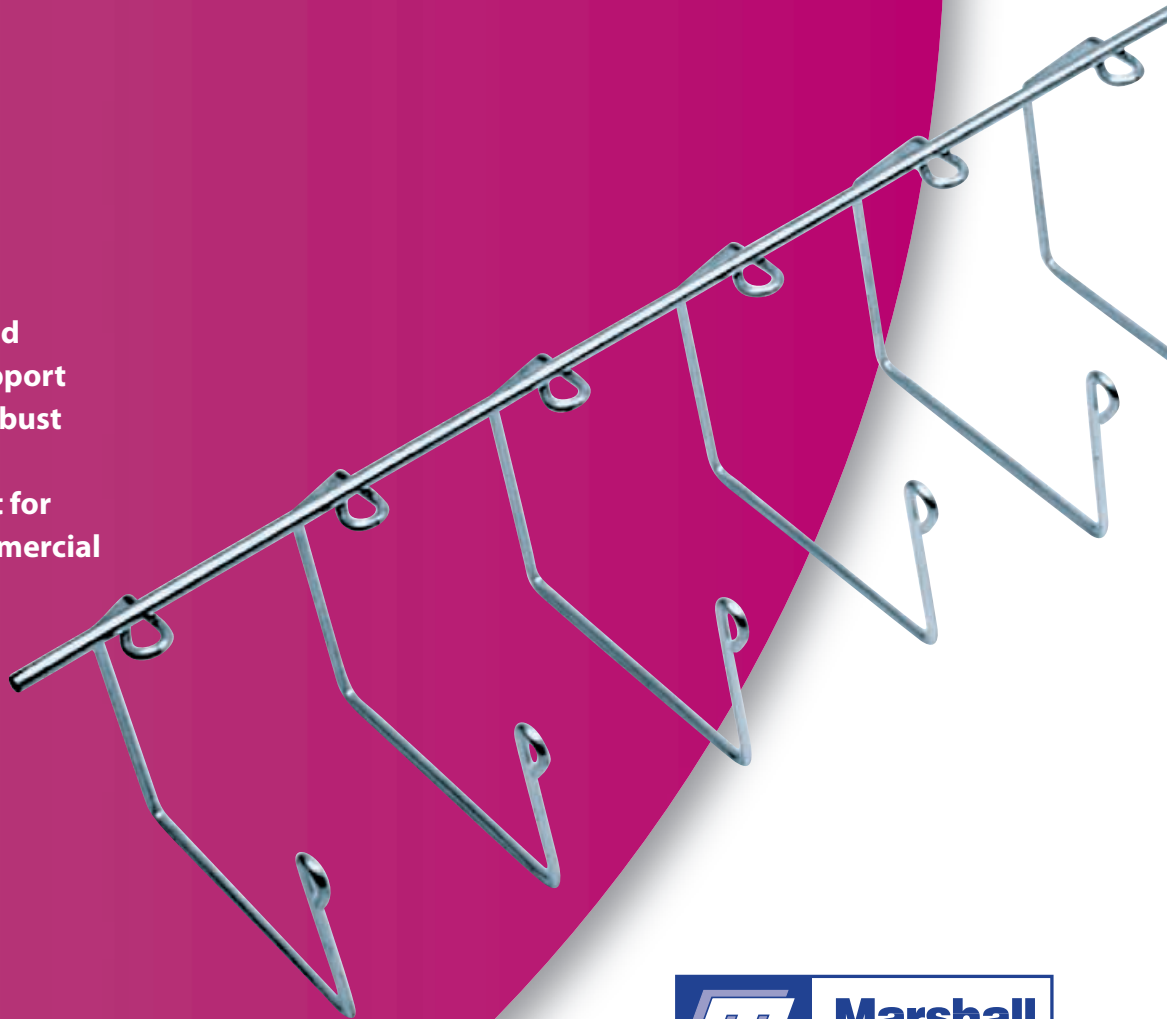
Earth rod box
Green only

code	external size	pack
MECB75GN	81 x 81 x 67mm	10
MECB100GN	106 x 106 x 67mm	10

GRP ladder, tray and SnakeWay wire systems

www.marshall-tufflex.com

GRP ladder, tray and SnakeWay wire support systems provide robust yet lightweight cable management for industrial and commercial applications.



Glass Reinforced Polyester (GRP)

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.

Steel wire

Steel wire support systems are manufactured from ASTM A510 high strength steel wire to form lightweight systems that can be hand-shaped to suit an application. Steel wire provides specifiers, contractors and end-users with reliable, practical systems and all the advantages of inherent LSOH and some screening properties.



Environmental

GRP

- Analysis shows GRP to have one of the best environmental impact profiles of any strong building material.
- Use of acetone has been eliminated.
- Light weight and easy handling can result in considerable fuel savings.
- Reduction in the need for motorised cranes and platform lift vehicles.
- Buildings using GRP within their infrastructure are lighter and require less energy to heat.

Steel Wire

- Steel wire is very friendly to the environment.
- The steel industry has made immense efforts to limit environmental pollution in the last decades.
- Energy consumption and carbon dioxide emissions have decreased by one-half of what they were in the 1960s.
- Dust emissions have been reduced by even more.



Recycling and sustainability

GRP

- GRP is easily dismantled and cut up to use in road metaling.
- 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.
- GRP can be re-used in other buildings.
- Building performance life of 40 to 50 years.

Steel Wire

- 100% recyclable.
- Can be recycled many times without loss of quality.



EMC properties

GRP

- Not applicable for this material.

Steel Wire

- Some EMC/EMI screening.



Fire performance

GRP

- Excellent fire performance, GRP is a self-extinguishing composition, halogen-free and with low smoke and fume properties.

Steel Wire

- Steel wire meets 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.

GRP ladder and tray – interior and exterior applications

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. GRP standard span cable tray (1.5m) and fittings are pressed from glass reinforced polyester resin, using hot moulding technology and facilitating the manufacture of smooth intricate shapes. GRP cable 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.

Pressed tray

50 x 50mm to 400 x 80mm

A complete range of pressed GRP trays for extended support span up to 3metres.



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Pultruded ladder

200 x 53mm to 900 x 150mm



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GRP industrial support systems

for supporting large power cables

Brackets, bolts and rails for use with other GRP systems.



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Ground ducts

250 x 140mm to 450 x 176mm

Self-supporting systems ideal for railway applications.



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Cable troughing

150 to 250 x 150mm

Suited to railway applications where cable ducts cannot be buried.



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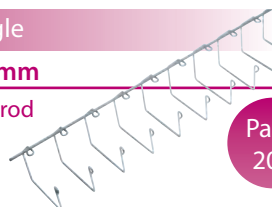
SnakeWay wire support systems - interior applications

The SnakeWay range of wire support systems for cabling provide the unique advantage of being easily hand-formed on site and offering quick and simple cable laying without the need for threading cable between supports. These features can offer contractors and installers big labour savings and overall project savings. Slow bends meet EIA/TIA specification and products are UL and CSA listed.

Hanging SnakeWay - single

100 x 50mm to 150 x 100mm

Hung from a single threaded rod direct to roofing structures.

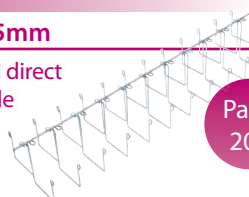


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Hanging SnakeWay - double

108 x 108mm and 125 x 125mm

Hung from a single threaded rod direct from roofing structures to provide segregation between services.

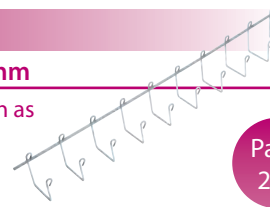


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Wall SnakeWay

50 x 50mm to 150 x 150mm

For fixing to flat surfaces such as walls, without the need for support brackets.

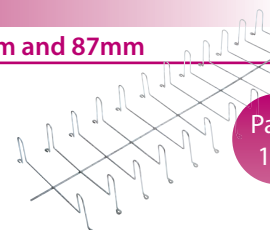


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Floor SnakeWay

75 x 87mm to 300 x 63mm and 87mm

For installation below raised floors or as vertical risers.



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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.

Product information

LADDER

- A variety of sizes from 200 x 53mm to 900 x 150mm

TRAY

- A variety of sizes from 50 x 50mm to 400 x 80mm

LADDER AND TRAY

- 40% lighter than steel
- Completely corrosion resistant against salt spray, H2S, acid build up from exhaust gases and brake dust along roads and railways
- No need for painting or protective coating
- Classified LSOH material
- Self-extinguishing
- Low conductivity
- Earthing not required
- Antimagnetic and resistant to electromagnetic pulses
- Effective at temperatures between -80C to +130C.
- 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 technical pages)

For further information on other lengths and widths available, please call our Technical Team. Tel: 01424 856688



Reduced use of bolts

GRP is a non-conductive material with excellent fire performance and high corrosion 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



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

**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

**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



Tray/trunking component chart

Length: 3 metres

Pack 1



50 x 50mm tray

KK5050

KKL5050

KKD50

DF50

KKT50

KKKE5050

100 x 50mm tray

KK10050

KKL10050

KKD100

DF50

KKT50

KKKE10050

150 x 50mm tray

KK15050

KKL15050

KKD150

DF50

KKT50

KKKE15050

200 x 50mm tray

KK20050

KKL20050

KKD200

DF50

KKT50

KKKE20050

300 x 50mm tray

KK30050

KKL30050

KKD300

DF50

KKT50

KKKE30050

100 x 80mm tray

KK10080

KKL10080

KKD100

DF80

KKT80

KKKE10080

150 x 80mm tray

KK15080

KKL15080

KKD150

DF80

KKT80

KKKE15080

200 x 80mm tray

KK20080

KKL20080

KKD200

DF80

KKT80

KKKE20080

300 x 80mm tray

KK30080

KKL30080

KKD300

DF80

KKT80

KKKE30080

400 x 80mm tray

KK40080

KKL40080

KKD400

DF80

KKT80

KKKE40080

Product Information

All products are supplied in pack quantities of one.

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.

Tray/trunking component chart



Internal bend		External bend		Flat angle (small radius)		Flat angle (large radius)	
Base	Cover	Base	Cover	Base	Cover	Base	Cover
KKBI5050	KKBID5050	KKBA5050	KKBAD5050	KKW5050	KKWD50	–	–
KKBI10050	KKBID10050	KKBA10050	KKBAD10050	KKW10050	KKWD100	–	–
KKBI15050	KKBID15050	KKBA15050	KKBAD15050	KKW15050	KKWD150	KKB15050	KKBD150
KKBI20050	KKBID20050	KKBA20050	KKBAD20050	KKW20050	KKWD200	KKB20050	KKBD200
KKBI30050	KKBID30050	KKBA30050	KKBAD30050	KKW30050	KKWD300	KKB30050	KKBD300
KKBI10080	KKBID10080	KKBA10080	KKBAD10080	KKW10080	KKWD100	KKB10080	KKBD100
KKBI15080	KKBID15080	KKBA15080	KKBAD15080	KKW15080	KKWD150	KKB15080	KKBD150
KKBI20080	KKBID20080	KKBA20080	KKBAD20080	KKW20080	KKWD200	KKB20080	KKBD200
KKBI30080	KKBID30080	KKBA30080	KKBAD30080	KKW30080	KKWD300	KKB30080	KKBD300
KKBI40080	KKBID40080	KKBA40080	KKBAD40080	KKW40080	KKWD400	KKB40080	KKBD400

Continued overleaf.

Tray/trunking component chart

Length: 3 metres

Pack 1



50 x 50mm tray

–

–

KKSS5050

KKSSD50

–

–

100 x 50mm tray

–

–

KKSS10050

KKSSD100

KKST10050

KKSTD100

150 x 50mm tray

–

–

KKSS15050

KKSSD150

KKST15050

KKSTD150

200 x 50mm tray

–

–

KKSS20050

KKSSD200

KKST20050

KKSTD200

300 x 50mm tray

–

–

KKSS30050

KKSSD300

KKST30050

KKSTD300

100 x 80mm tray

KKC10080

KKCD100

KKSS10080

KKSSD100

KKST10080

KKSTD100

150 x 80mm tray

KKC15080

KKCD150

KKSS15080

KKSSD150

KKST15080

KKSTD150

200 x 80mm tray

KKC20080

KKCD200

KKSS20080

KKSSD200

KKST20080

KKSTD200

300 x 80mm tray

KKC30080

KKCD300

KKSS30080

KKSSD300

KKST30080

KKSTD300

400 x 80mm tray

KKC40080

KKCD400

–

–

KKST40080

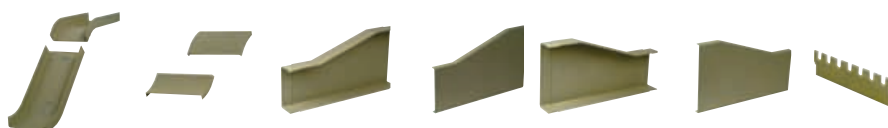
KKSTD400

Product Information

All products are supplied in pack quantities of one.

Pultruded Tray and an additional 110mm wall height is also available on request.

Tray/trunking component chart



Base set	Offset Cover set	Reducer left hand Base	Reducer left hand Cover	Reducer right hand Base	Reducer right hand Cover	Pin rack
—	—	—	—	—	—	—
—	—	—	—	—	—	KR100
—	—	—	—	—	—	KR150
—	—	—	—	—	—	KR200
—	—	—	—	—	—	KR300
KKET10080	KKETD10080	—	—	—	—	KR100
KKET15080	KKETD15080	—	—	—	—	KR150
KKET20080	KKETD20080	KKRL20080 200 to 100mm	KKRLD200	KKRR20080 200 to 100mm	KKRRD200	KR200
KKET30080	KKETD30080	KKRL30080 300 to 200mm	KKRLD300	KKRR30080 300 to 200mm	KKRRD300	KR300
KKET40080	KKETD40080	KKRL40080 400 to 300mm	KKRLD400	KKRR40080 400 to 300mm	KKRRD400	KR400

Offset
with
Covers

Length: 3 metres

Pack

1

Ladder component chart



UL20053
200 x 53mm



UL20080
200 x 80mm



UL150100
150 x 100mm



UL300100
300 x 100mm



UL400100
400 x 100mm



UL600100
600 x 100mm



UL900100
900 x 100mm



UL150150
150 x 150mm



UL300150
300 x 150mm



UL400150
400 x 150mm



UL600150
600 x 150mm



UL900150
900 x 150mm



Cover	Cover clip	Flat 90° angle Base	Flat 90° angle Cover	Int/Ext angle Base	Int/Ext 90° angle Cover
KKD200	DF50	ULB20053	ULBD200	ULBA20053	ULBAD20053
KKD200	DF80	ULB20080	ULBD200	ULBA20080	ULBAD20080
KKD150	DF100	ULB150100	ULBD150	ULBA150100	ULBAD150100
KKD300	DF100	ULB300100	ULBD300	ULBA300100	ULBAD300100
KKD400	DF100	ULB400100	ULBD400	ULBA400100	ULBAD400100
KKD600	DF100	ULB600100	ULBD600	ULBA600100	ULBAD600100
KKD900	DF100	ULB900100	ULBD900	ULBA900100	ULBAD900100
KKD150	DF150	ULB150150	ULBD150	ULBA150150	ULBAD150150
KKD300	DF150	ULB300150	ULBD300	ULBA300150	ULBAD300150
KKD400	DF150	ULB400150	ULBD400	ULBA400150	ULBAD400150
KKD600	DF150	ULB600150	ULBD600	ULBA600150	ULBAD600150
KKD900	DF150	ULB900150	ULBD900	ULBA900150	ULBAD900150

Product Information

All products are supplied in pack quantities of one.

Additional ladder widths in wall heights 53mm, 80mm, 100mm and 150mm are available on request.

6 metre lengths are available on request.

Ladder component chart









Flat tee Base	Flat tee Cover	Flat crossover Base	Flat crossover Cover	Reducer	Horizontal coupler (Set of 2 pieces)	Vertical variable angle plate (Set of 2 pieces)	Ladder clamp to support
ULTE20053	ULTED200	ULX20053	ULXD200	\$ULR15053 150mm	*ULIH53	ULIV53	†ULKS
ULTE20080	ULTED200	ULX20080	ULXD200	\$ULR15080 150mm	*ULIH80	ULIV80	†ULKS
ULTE150100	ULTED150	ULX150100	ULXD150	\$ULR100100 100mm	*ULIH100	ULIV100	†ULKS
ULTE300100	ULTED300	ULX300100	ULXD300	\$ULR200100 200mm	*ULIH100	ULIV100	†ULKS
ULTE400100	ULTED400	ULX400100	ULXD400	\$ULR300100 300mm	*ULIH100	ULIV100	†ULKS
ULTE600100	ULTED600	ULX600100	ULXD600	\$ULR300100 500mm	*ULIH100	ULIV100	†ULKS
ULTE900100	ULTED900	ULX900100	ULXD900	—	*ULIH100	ULIV100	†ULKS
ULTE150150	ULTED150	ULX150150	ULXD150	\$ULR100150 100mm	*ULIH150	ULIV150	†ULKS
ULTE300150	ULTED300	ULX300150	ULXD300	\$ULR200150 200mm	*ULIH150	ULIV150	†ULKS
ULTE400150	ULTED400	ULX400150	ULXD400	\$ULR300150 300mm	*ULIH150	ULIV150	†ULKS
ULTE600150	ULTED600	ULX600150	ULXD600	\$ULR500150 500mm	*ULIH150	ULIV150	†ULKS
ULTE900150	ULTED900	ULX900150	ULXD900	—	*ULIH150	ULIV150	†ULKS

Product Information

\$ Reduction achieved

* Foldable splice plate requires 4 x M616V4ADOM

+ ULKS requires 1 x M1040V4AHEX

Support system component chart							
GRP Systems					Stainless steel 316		
Pack 1							
	FPAM Bracket	Bracket Type 'A' + 'B'	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	FPAM100	FPAP100AC	FPAR2000AC	FPBGV10SS	AV100	ASSV2000	BGSV
150mm	–	FPAP150AC	FPAR2000AC	FPBGV10SS	AV150	ASSV2000	BGSV
200mm	FPAM200	FPAP200AC	FPAR2000AC	FPBGV10SS	AV200	ASSV2000	BGSV
250mm	FPAM250	FPAP250AC	FPAR2000AC	FPBGV10SS	AV250S	ASSV2000	BGSV
300mm	FPAM300	FPAP300AC	FPAR2000AC	FPBGV10SS	AV300S	ASSV2000	BGSV
400mm	–	FPAP400AC	FPAR2000AC	FPBGV10SS	AV400S	ASSV2000	BGSV
500mm	–	FPAP500AC	FPAR2000AC	FPBGV10SS	AV500S	ASSV2000	BGSV
600mm	–	FPAP600AC	FPAR2000AC	FPBGV10SS	AV600S	ASSV2000	BGSV
Product Information							
All products are supplied in pack quantities of one. Other brackets and supports available on request.							

GRP ground ducts and profiles are ideal for railway applications wherever above ground installation is required.

Product information

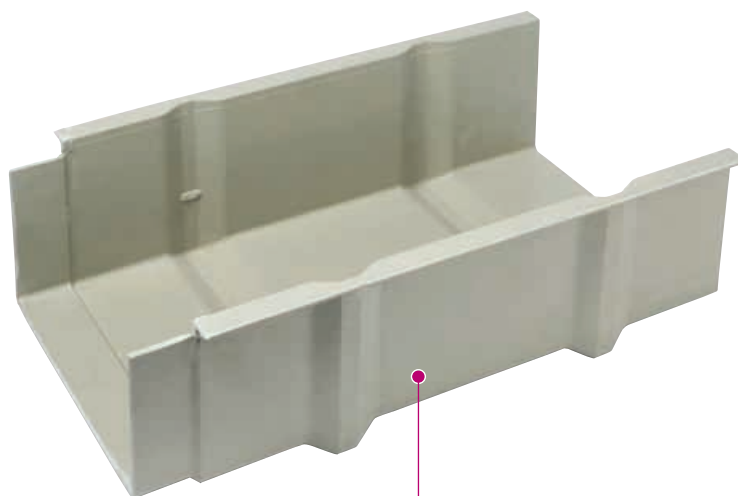
Ducts

- 250 x 140mm to 450 x 176mm
- Rigid and self-supporting
- 3 x lighter than GRC (Glass fibre Reinforced Concrete)
- 10 x lighter than concrete
- 40% lighter than steel
- Impact and frost resistant
- Easy to 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. Tel: 01424 856688



GRP is a non-conductive material with excellent fire performance and high corrosion resistance.

Ground ducts and profiles



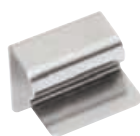
Duct base 2500mm

code	size	pack
BK200140	250 x 140mm	1
BK300176	350 x 176mm	1
BK400176	450 x 176mm	1



Cover 1250mm

code	size	pack
BKDR200	250 x 140mm	1
BKDR300	350 x 176mm	1
BKDR400	450 x 176mm	1



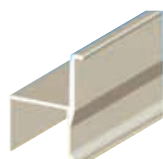
Clip for cover mounting

code	size	pack
DF94/4	250 x 140mm	1
DF94/4	350 x 176mm	1
DF94/4	450 x 176mm	1



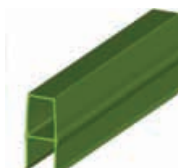
Set of clips and hinge for articulate cover mounting

code	size	pack
DF94/C	250 x 140mm	1
DF94/C	350 x 176mm	1
DF94/C	450 x 176mm	1



Ground duct profile

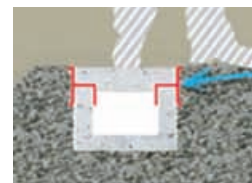
code	size	pack
PR3635	36 x 35mm	1
PR5045	50 x 45mm	1
PR5555	55 x 55mm	1



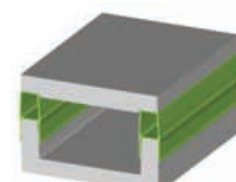
Ground duct A profile

code	size	pack
PR5080	143 x 53mm	1

Ground duct profile



- Increases cable capacity of existing concrete ground ducts
- High mechanical and corrosion performance
- Highly effective at minimum cost



Ground duct A profile

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.
Tel: 01424 856688



GRP is a non-conductive material with excellent fire performance and high corrosion resistance

Cable troughing



Base and pre-mounted connector

code	size	pack
SP150150	150 x 150mm	1
SP250150	250 x 150mm	1



U-Shaped connector

code	size	pack
SPIH150150	150 x 150mm	1
SPIH250150	250 x 150mm	1



Splice plate

code	size	pack
KKIH150	150 x 150mm	1
	250 x 150mm	

Components



Steel post 1500mm

code	size	pack
SPP100150	150/250 x 150mm	1



Steel post 2000mm

code	size	pack
SPP100200	150/250 x 150mm	1



Steel post 3000mm

code	size	pack
SPP100250	150/250 x 150mm	1



Steel mounting plate

code	size	pack
SPC100150	150x 150mm	1
SPC100250	250 x 150mm	1



Cable tray covers

code	size	pack
KKDL150	150 x 150mm	1
KKDL250	250 x 150mm	1



316 SS bolts and nuts for SPIH/KKIH

code	size	pack
SPM1025	for 150/250 x 150mm	1



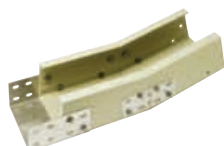
HDG steel bolts, nuts and U-shaped washers

code	size	pack
SPM1025/HDG	150/250 x 150mm	1



Self tapping screws

code	size	pack
SPAT/SS	150/250 x 150mm	1



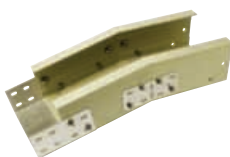
Internal vertical elbow 15°

code	size	pack
SPBI150	150 x 150mm	1
SPBI250	250 x 150mm	1



Cover for Internal vertical elbow 15°

code	size	pack
SPBID150	150 x 150mm	1
SPBID250	250 x 150mm	1



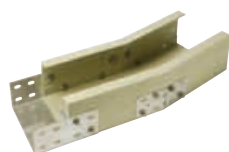
External vertical elbow 15°

code	size	pack
SPBA150	150 x 150mm	1
SPBA250	250 x 150mm	1



Cover for external vertical elbow 15°

code	size	pack
SPBAD150	250 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	size	pack
SPBD150	150 x 150mm	1
SPBD250	250 x 150mm	1



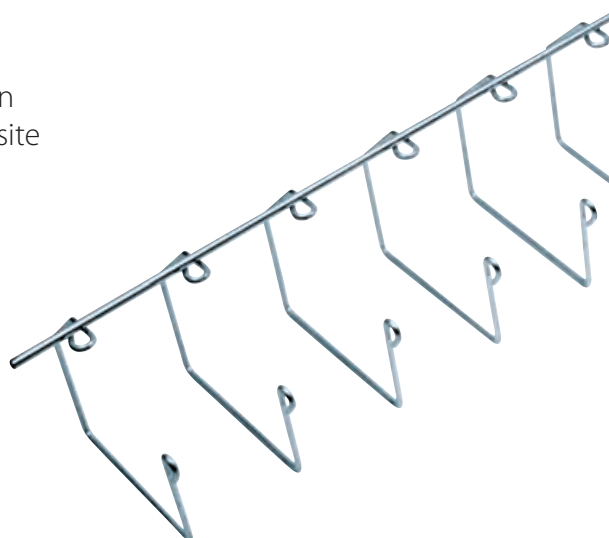
HDG steel cable out fitting with bolts

code	size	pack
SPKA	150/250 x 150mm	1

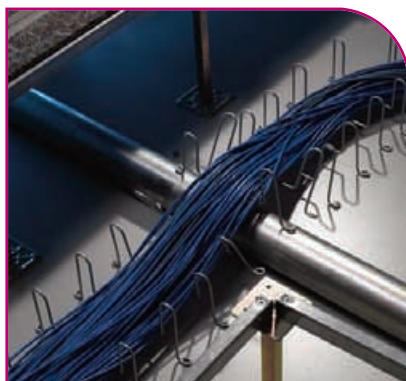
SnakeWay wire support systems for cabling manage to combine strength with flexibility, providing a range of uniquely hand-bendable cable support systems that can easily and quickly be formed on site to meet individual site requirements.

Benefits of a SnakeWay system

- Hand bendable
- Fast cable loading
- Big labour savings
- Overall project cost savings



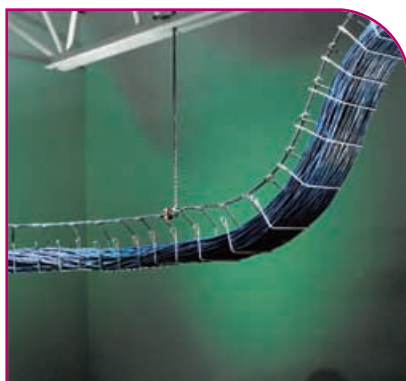
Floor SnakeWay



Wall SnakeWay



Hanging SnakeWay – single



Hanging SnakeWay – double



Start

5 Seconds

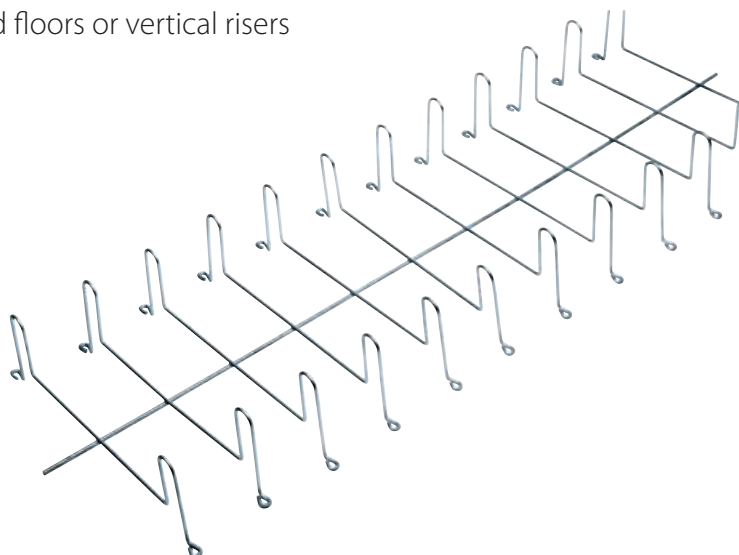
10 Seconds



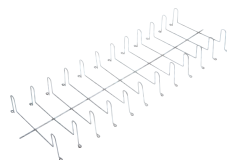
Floor SnakeWay is for installation below raised floors or vertical risers

Product information

- 300 x 63mm and 300 x 87mm
- Hand bendable
- No need to provide cut lengths of supporting channels as other services e.g. conduit and track, can pass beneath
- Fastens direct to slab
- Slow bends can be hand-formed on site to requirements



Components



Floor SnakeWay

code	size	pack
SW1103	300 x 63mm	1 x 2.4m
SW1104	300 x 87mm	1 x 2.4m

Horizontal cable guide

code	size	pack
SW1211	63mm	1
SW1212	87mm	1



Intersection or tee

code	size	pack
SW1226	300 x 300mm	1



SnakeWay connector

code	pack
SW1201	1

Quick connector

code	pack
SW1202	1

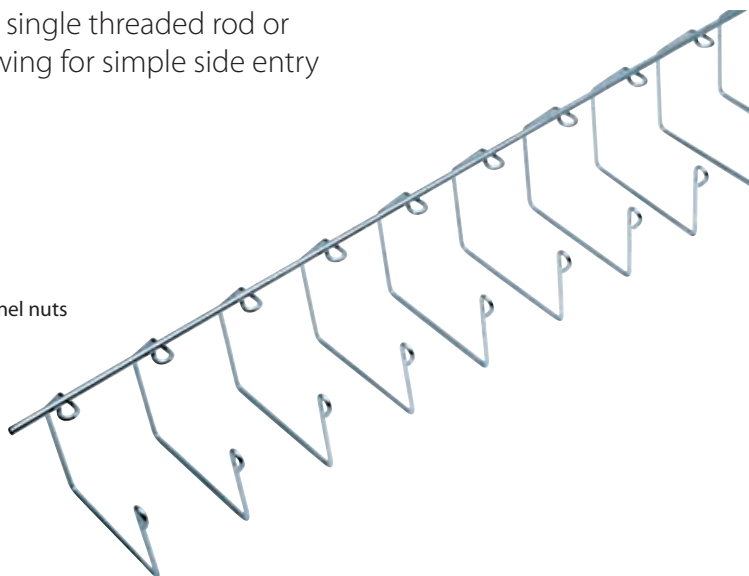
Conduit plate

code	size	pack
SW1230	20–25mm	1

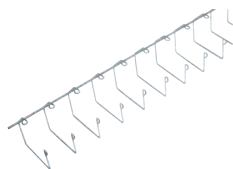
Single hanging SnakeWay can be hung via a single threaded rod or fastened direct to the roofing structure, allowing for simple side entry loading with no threading of cables

Product information

- 75 x 75mm, 100 x 50mm, 108 x 108mm and 150 x 100mm
- Hand bendable
- Single point support fixing
- Fast side entry cable loading
- No stretching of data cables
- No need to provide cut lengths of supporting channel or channel nuts
- Slow bends can be hand-formed on site to requirements



Components



Hanging SnakeWay-single

code	size	pack
SW2101	100 x 50mm	1x 2.4m
SW2102	75 x 75mm	1x 2.4m
SW2103	108 x 108mm	1x 2.4m
SW2104	150 x 100mm	1x 2.4m



SnakeWay connector

code	pack
SW1201	1



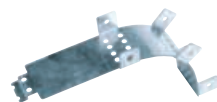
Quick connector

code	pack
SW1202	1



Beam clamp

code	size	pack
SW2202	10	1



Drop cable guide

code	size	pack
SW2211	75mm	1
SW2212	150mm	1



Intersection or tee

code	pack
SW2221	1



Y intersection or tee

code	pack
SW2222	1



Hanging/wall adaptor

code	pack
SW2223	1



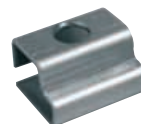
*Pedestal bracket

code	pack
SW2234	1



Wall mount bracket

code	pack
SW2232	1



Ceiling spacer

code	pack
SW2205	1



Conduit plate

code	size	pack
SW1230	20-25mm	1

*Pedestal bracket

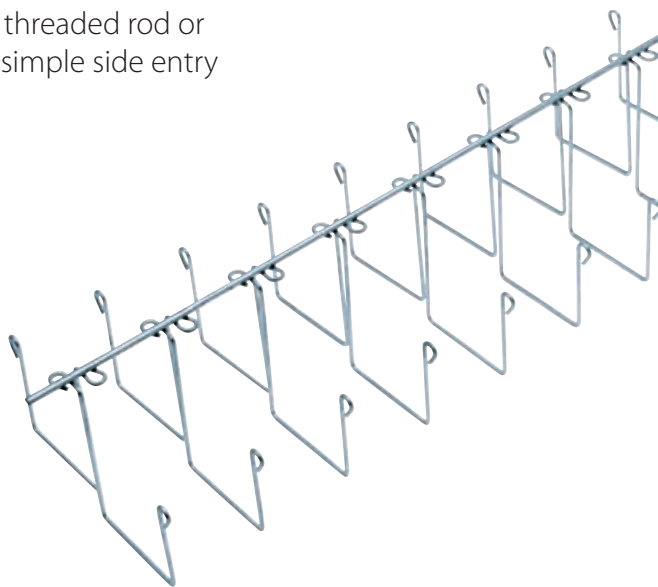
For fixing Single hanging SnakeWay to pedestals within raised floor installations, taking cabling above floor clutter.



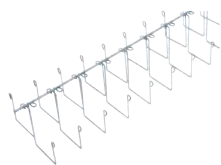
Double hanging SnakeWay can be hung via a single threaded rod or fastened direct to the roofing structure, allowing for simple side entry loading with no threading of cables

Product information

- 108 x 108mm
- 125 x 125mm
- Hand bendable
- Single point support fixing
- Fast side entry cable loading
- No stretching of data cables
- No need to provide cut lengths of supporting channel or channel nuts
- Slow bends can be hand-formed on site to requirements



Components



Hanging SnakeWay-double

code	size	pack
SW3101	108 x 108mm	1 x 2.4m
SW3102	125 x 125mm	1 x 2.4m



SnakeWay connector

code	size	pack
SW1201		1



Quick connector

code	size	pack
SW1202		1
Not suitable for SW3102 use SW1201		



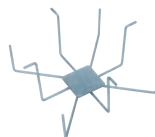
Beam clamp

code	size	pack
SW2202	10mm	1



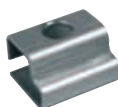
Drop cable guide

code	size	pack
SW2211	75mm	1
SW2212	150mm	1



Intersection or tee

code	size	pack
SW3221		1



Ceiling spacer

code	size	pack
SW2205		1



Wall mount bracket

code	size	pack
SW3232		1



*Pedestal bracket

code	size	pack
SW3234		1



Conduit plate

code	size	pack
SW1230	20–25mm	1

*Pedestal bracket

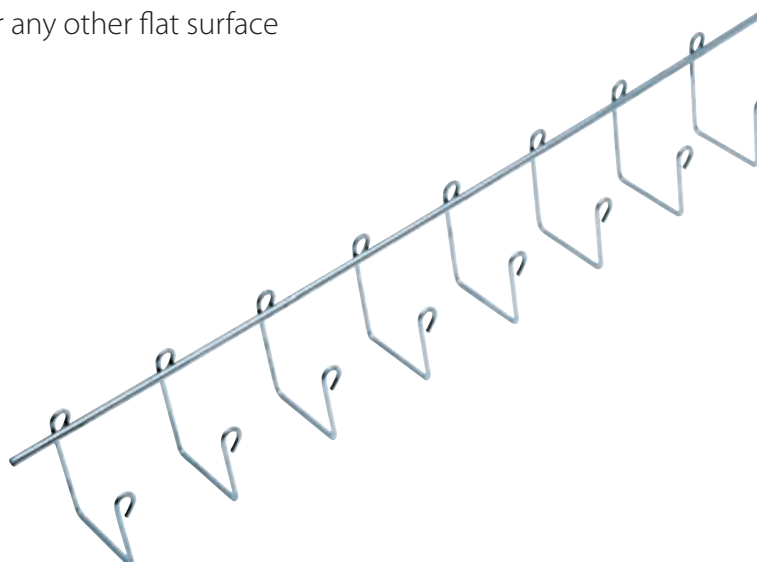
For fixing Single hanging SnakeWay to pedestals within raised floor installations, taking cabling above floor clutter.



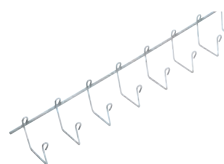
Wall SnakeWay fastens directly to the wall or any other flat surface

Product information

- 50 x 50mm
- 75 x 75mm
- 125 x 125mm
- 150 x 150mm
- Hand bendable
- No requirement for J brackets or fixings
- Allows direct fastening to wall with built-in mounting rings
- Easily routed around obstructions
- Simple side entry cable loading
- Slow bends can be hand-formed on site to requirements



Components



Wall SnakeWay

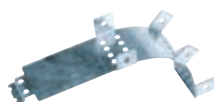
code	size	pack
SW4101	50 x 50mm	1x 2.4m
SW4102	75 x 75mm	1x 2.4m
SW4103	125 x 125mm	1x 2.4m
SW4104	150 x 150mm	1x 2.4m

SnakeWay connector

code	pack
SW1201	1

Quick connector

code	pack
SW1202	1



Drop cable guide

code	size	pack
SW2211	75mm	1
SW2212	150mm	1

Clamp using cable tie

Hanging/wall adaptor

code	pack
SW2223	1

Conduit plate

code	size	pack
SW1230	20–25mm	1

Laboratory and healthcare systems

www.marshall-tufflex.com



A range of cable management systems that are particularly suitable for the laboratory, medical and healthcare environment.

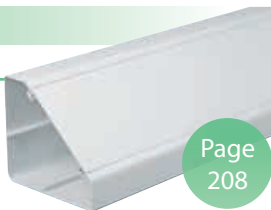
Marshall-Tufflex has many years of experience in providing cable management solutions for the medical and healthcare environments. The company ensures that products and product ranges meet the highest possible standards for individual product requirements. Trunking systems for this very specialised type of application are available in both aluminium and PVC-U, are available to carry gas, power, data, telecoms and nurse call, providing first class screening performance and optional antimicrobial protection.

PVC-U Antimicrobial bio trunking

Bench Trunking

105 x 105mm

A robust, angled trunking that can be sub-divided and is suitable for laboratory and medical workbenches or angled under shelving. Compartment can be sub-divided and screened if required.



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Compact Trunking

130 x 50mm to 181 x 50mm

A range of small and medium sized, 2 compartment, dado and skirting systems with varying compartment sizes. Compartments can be sub-divided and screened if required.

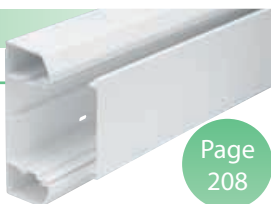


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Mono Plus 20 Trunking

140 x 50mm

A smaller, 3 compartment, dado trunking with a single cover for use where space is limited. Compartments can be sub-divided.



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Sterling Profile

167 to 269 x 50mm

A range of medium to larger sized trunking systems for dado and skirting application. Sterling Profile has separate compartments with individual covers. Compartments can be sub-divided and screened if required.



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Odyssey

180 x 57mm

Curved profile dado trunking with 1 main compartment and 2 smaller compartments. Odyssey's curved profile is designed to minimise surface dust and clutter. Compartments can be sub-divided and screened if required.

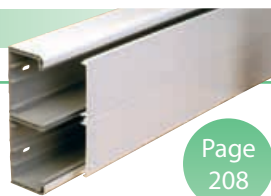


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Twin Plus Trunking

210 x 57mm

Large dado and skirting trunking with 2 deep compartments that provide high capacity for carrying power and data services. Compartments can be sub-divided and screened if required.



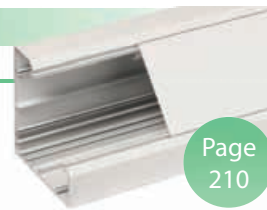
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Aluminium systems

Bench Trunking

105 x 105mm

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

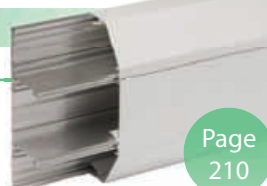


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XL Trunking

220 x 65mm to 308 x 65mm

A range of large 3 and 4 compartment dado and skirting trunking systems with separate compartments and individual covers. XL Trunking can accept gas and air outlets and can be extended to provide additional compartments. A PVC-U dividing fillet is available with screening if required.

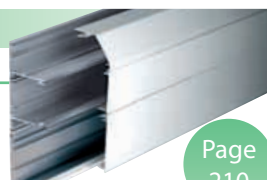


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MT Conquest Medical Units

310 x 65mm and 360 x 65mm

Assembled to specification, MT Conquest medical units are designed to include outlets for gas, air, power, data, nurse call and other services. A PVC-U dividing fillet is available with screening if required.



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Other Bio options for PVC-U trunking

In addition to the systems shown here, we can also offer Bio options for PVC-U trunking in:

- Twin 165 Trunking
- XL Trunking
- Mini Trunking and
- Maxi Trunking
- Twin Plus

Note:

For Twin 165 Trunking and for XL Trunking please refer to the PVC-U Perimeter Systems section on page 51.

Note:

For Mini, Maxi and Bench Trunking systems please refer to the PVC-U Domestic and general trunking section on page 145.

Special solutions

The dedicated Specialised Applications team addresses some of the difficult cable management challenges encountered by designers, consulting engineers and contractors and provides bespoke product solutions to suit individual installations. Marshall-Tufflex is very experienced in working within the medical, healthcare and laboratory environments.

Ceiling trunking

Inverted lengths of XL trunking with aluminium base, carrying gas, telecoms, data and power from the ceiling to laboratory workbenches and equipment below.



Inverted ceiling mounted PowerPost

PowerPosts suspended from the ceiling to supply segregated services to workbenches and equipment below.



Folding ceiling mounted PowerPosts

Specially adapted hinged, hanging PowerPosts that can be lifted and parked out of the way above head height when not required.



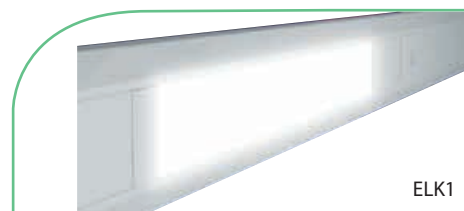
Lighting kits

Lighting Kits may be used with PVC-U and aluminium versions of many of our perimeter trunking systems and are extremely useful, for example in laboratory areas where direct light is required over working surfaces.

- Miniature compact electronic fluorescent fitting, 17W, 1050 lumens 3500K (undiffused), length 500mm approx, fluorescent fitting life 10,000 hours.
- Input connection lead.
- Self-adhesive fluorescent fitting mounting clips.
- Self-adhesive vertical support clip,
- Opal diffuser lid, PVC-U.
- Diffuser lid couplers, PVC-U.
- Switch and mounting box assembly, 6Amp, 2-way.
- Installation notes.

code	Application
ELK1WH	Mono Trunking
	Compact Trunking – main compartment
	Sterling Profile – main compartment
	XL Trunking – main compartment
	Twin Plus
	PowerPoles and Posts
	Bench Trunking
ELK2WH	XL Trunking – angled outer compartment
ELK3WH	XL Trunking – square outer compartment

For further advice and details of custom-designed Lighting Kits, please call our Technical Team on 01424 856688.



ELK1



ELK2

What is an HCAI?

An HCAI is a healthcare acquired infection and these are currently very prevalent within the healthcare environment as bacteria become more resistant to antibiotics. Although coughs and sneezes do spread infection, there are also concerns about the spread of infection from person to person via surfaces such as door handles, wall surfaces and cable containment.

What do these bacteria do?

Certain microbial organisms are harmful to people and can proliferate to cause infections and disease. They can also cause product deterioration, discolouration and bad odours.

How can we improve things?

The responsible option is to control these organisms whenever possible and wherever infection control is of importance, particularly in environments such as:

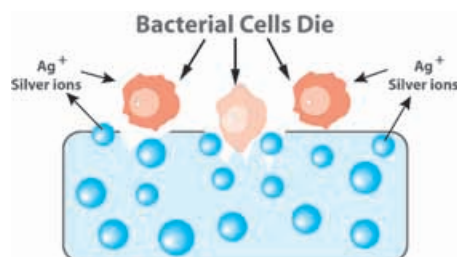
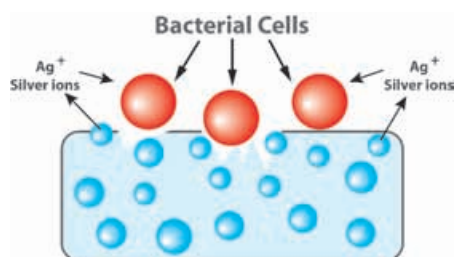
- Hospitals
- Nursing and care homes
- Medical and dental units
- Surgeries
- Sports and health centres

Why use antimicrobial PVC-U trunking?

Ordinary cable containment is susceptible to the spread of disease from one person to another via its surface. Again, the responsible option is to use antimicrobial systems incorporating silver ions. Bio Trunking ensures active antimicrobial care twenty-four hours a day, seven days a week and should be used alongside a normal cleaning regime.

What is silver ion technology?

For many decades, silver ions have been shown to exert a recognised bactericidal effect. When incorporated within materials, silver is toxic to multiple components of bacterial cell metabolism, damaging the cell wall and membrane permeability.

**Bio test reports**

For the results of independent testing of the Marshall-Tufflex antimicrobial Bio Trunking solution, please refer to the test reports in the technical section of Laboratory and Healthcare on page 291.

Bio trunking has demonstrated effectiveness against:

- Methicillin Resistant Staphylococcus aureus (MRSA)
- Klebsiella pneumoniae
- Streptococcus pyogenes
- Enterococcus faecalis
- Escherichia coli
- Pseudomonas aeruginosa
- Acinetobacter baumannii
- Bacillus subtilis
- Salmonella
- Legionella

Case Study 1

For: Derriford Hospital, Plymouth

Specifier: Plymouth Hospitals NHS Trust, Electrical Estates Department



The Marshall-Tufflex Bio Trunking Solution was used for the eleven operating theatres at Derriford Hospital, Plymouth, an acute general hospital that is part of Plymouth Hospitals NHS Trust.

Installed as part of a strict, on-going process to control the spread of infection, Odyssey Bio Trunking was specified by Plymouth Hospitals NHS Trust's Electrical Estates department.

Plymouth Hospitals NHS Trust has been named as one of the top performing Trusts in the country. This Odyssey Bio Trunking installation was part of an upgrade to the monitoring system, linking essential patient data during an operation - such as blood pressure, pulse and heart rates - to a central information processing unit.

The Theatre Estates department of Plymouth Hospitals NHS Trust said: *"Odyssey Bio is superb... we're very pleased with it. We think it's a product that is likely to come to the fore in control of infection, as NHS Trusts up and down the country tackle the continuing threat of virulent infectious diseases."*

Case Study 2

For: University Hospital of North Tees, Stockton

Specifier: North Tees Hospital Estates Engineering



North Tees Hospital in Stockton specified Odyssey Bio trunking for an electrical upgrade to the stroke ward, to help prevent the spread of infection.

The University Hospital of North Tees is part of the North Tees and Hartlepool NHS Foundation Trust and ranks highly in DoH figures for reduction in MRSA.

North Tees Hospital Estates department liked the unique curve of the Cat 6 compliant, antimicrobial containment system and comment: *"Flat surfaces gather dust and dust gathers bugs so Odyssey's curved profile was a big bonus."*

Marshall-Tufflex's Odyssey Bio is tested to quantitative standard ISO 22196:2007, which shows the survival rate of tested bacteria to be less than 0.1%. It will therefore help to counteract harmful bugs, such as MRSA, Klebsiella Pneumonia, E-coli and Salmonella, and help to avoid cross contamination in medical and other high risk applications when combined with stringent hygiene routines.

Where hygiene is a priority, we offer cable management systems that incorporate antimicrobial protection within the PVC-U material. Bio Trunking Solutions provide silver ion technology integral to the trunking, preventing 99.9% of harmful bacterial growth and ensuring there is no reduction in effectiveness of the antimicrobial protection for the lifetime of the trunking, even if it is scratched or damaged.



Product information

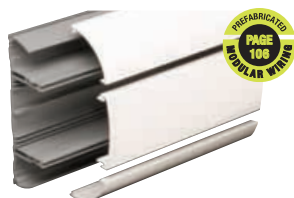
- Silver ion technology to neutralise harmful bacteria including MRSA.
- Proven reductions in bacterial viable count by more than 99.9%.
- Tested to ISO 22196:2007.
- Durable non-leaching antimicrobial treatment that is inherent within the PVC-U material.
- Effective for the lifetime of the product.
- Registration with the Environmental Protection Agency (EPA).
- Compliance with the European Biocidal Products Directive (BDP).
- Antimicrobial Bio Trunking Solutions provide an extra level of protection when combined with normal cleaning procedures.

Standard colour
WH
WH: White



Part M

The Odyssey trunking range includes unique coloured accessory boxes that comply with the requirements of Part M (DDA). (See page 57)



Odyssey Trunking

A trunking system with a unique curved profile and flush accessories

- 180 x 57mm
- 3 segregated compartments.
- Curved profile does not allow placement of objects.
- Flush accessories maintain smooth profile.
- Internally reinforced for extra mechanical strength.
- Tamper-resistant trunking and fittings that locate with a special clip design.
- Lock feature for adjustable corners.
- Covers only require Bio protection.



*Sterling profile 1

A range of 3 compartment, mid-size, multi-profile trunking systems.

- 167 x 50mm
- Three segregated compartments
- Separate cover access to each compartment
- Can be fed from larger trunking systems for increased cable distribution
- Covers only require Bio protection

*Note:

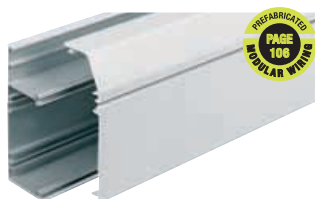
The Sterling Profile range includes various profile configurations and sizes. For more information please refer to page 74.



Mono plus 20 trunking

An economical 3 compartment trunking designed to fit areas that have height restrictions.

- 140 x 50mm
- Three segregated compartments
- Suitable for height restricted applications
- One piece fittings with single lid access for improved security
- Base and cover require Bio protection



*Compact 1 trunking

Range of 2 compartment systems designed to fit areas that have height restrictions.

- 130 x 50mm
- One full size and one half size compartment
- Suitable for height restricted applications
- Separate cover access to each compartment
- Can be fed from larger trunking system for increased cable distribution
- Base and covers require Bio protection

*Note:

The Compact Trunking range also includes Compact 2 and Compact 3. For more information please refer to PVC-U perimeter trunking section, page 66.



Twin Plus trunking

High capacity segregated, 2 compartment system designed for carrying large quantities of Cat 6 data.

- 210 x 57mm
- Two large segregated compartments
- Separate cover access to each compartment
- Extra depth for increased cable capacity
- Base and covers require Bio protection



Bench trunking

Robust, angled trunking carrying segregated services for bench, worktop or desk mounting.

- 105 x 105mm
- Can be designed and pre-wired to specification
- Back to back configuration possible
- Positive fixing lids for easy re-configuration of cabling
- Base and cover require Bio protection

Bio trunking component chart						
	Bench trunking 105 x 105mm	Compact 1 trunking 130 x 50mm	Mono Plus 20 trunking 140 x 50mm	Sterling Profile 1 167 x 50mm	Odyssey trunking 187 x 57mm	Twin Plus trunking 210 x 57mm
Trunking assembly						
pack 1 x 3m	MBT105BIOWH	–	–	–	DD1B	–
Base						
pack 1	–	ETB2BIOWH	EMT20BIOWH	ETB1	–	EMT60BIOWH
Main cover						
pack 1	–	ETL1BIOWH	ETL1BIOWH	ETL1BIOWH	–	2x ETL1BIOWH
Angled outer cover						
pack 1	–	ETAC1BIOWH	–	2x ETAC1BIOWH	–	–
Square outer cover						
pack 1	–	–	–	–	–	–
Dividing fillet						
pack 1	BDF105WH	–	EDF1	EDF1	–	LDF1
End cap (1 piece)						
pack 1	BEC105BIOWH	EECHC1LHBIOWH EECHC1RHBIOWH	EEC20BIOWH	EECHP1BIOWH	DD1233	*EEC60BIOWH
Coupler (1 piece)						
pack 1	BTC105BIOWH	ECHC1BIOWH	EC20BIOWH	ECHP1BIOWH	DD1213	*EC60BIOWH
Internal bend (1 piece)						
pack 1	BIA105BIOWH	EIBHP1BIOWH	EIB20BIOWH	EIBHC1BIOWH	DD1313 ...DATA...	*EIB60BIOWH
Internal adjustable bend ...DATA...						
pack 1	–	–	–	–	DD1333 ...DATA...	–
Internal data bend assembly ...DATA...						
pack 1	–	ELBCD1BIOWH	–	ELIBD1BIOWH	–	–
External bend (1 piece)						
pack 1	BEA105BIOWH	EXBHC1BIOWH	EXB20BIOWH	EXBHP1BIOWH	DD1353 ...DATA...	*ESXB60BIOWH
External adjustable bend ...DATA...						
pack 1	–	–	–	–	DD1373 ...DATA...	–
External data bend assembly ...DATA...						
pack 1	–	ELOBCD1BIOWH	–	–	–	EXB60BIOWH
Flat angles (up or down)						
pack 1	–	EFAC1UBIOWH EFAC1DBIOWH	EFA20BIOWH	EFA1BIOWH	DD1413 ...DATA...	EFA60BIOWH
Flat tees (up or down)						
pack 1	–	EFTC1ULBIOWH EFTC1URBIOWH EFTC1DLBIOWH EFTC1DRBIOWH	EFT20BIOWH	EFT1BIOWH	DD1433 ...DATA...	EFT60BIOWH

Bio trunking codes

Codes for Bio Trunking Solutions are created by inserting the letters BIO before the colour code e.g. EEC201WH becomes EEC201BIOWH

Note: Odyssey is the exception to this rule.

Other Bio options for PVC-U trunking

In addition to the systems shown here, we can also offer Bio options for PVC-U trunking in:

- Twin 165 Trunking
- XL Trunking
- Mini Trunking and
- Maxi Trunking
- Twin Plus

Note:

For Twin 165 Trunking and for XL Trunking please refer to the PVC-U Perimeter Systems section on page 51.

Note:

For Mini, Maxi and Bench Trunking systems please refer to the PVC-U Domestic and general trunking section on page 145.

Twin Plus

*Fittings are two piece.

Screening

Copper spray screening is available for Bio Trunking, however, when ordering screened products with an antimicrobial treatment, we would always advise you to contact our Technical Team on 01424 856688 before placing an order.

Aluminium systems with multiple compartments providing LSOH containment for wiring, gas and air services, suitable for the healthcare and laboratory environments.

Product information

XL Trunking

- 220 and 308 x 65mm
- 3 and 4 compartments
- Extendable base allows for additional compartments
- Main compartments can accept gas outlets
- Standard 3m length stock item
- Accepts standard UK wiring and data accessories
- Covers for gas mounting plates can be pre-punched to accept gas outlets

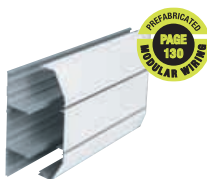
Bench Trunking

- 105 x 105mm
- Can be sub-divided into 2 compartments
- Not intended for gas or air services
- Suitable for desk, bench or worktop applications
- Accepts standard UK wiring and data accessories

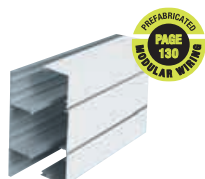


- Range of compartments numbers and sizes
- Provision for gas, air, power and data outlets
- Bespoke designs available
- See below for box assemblies that meet the requirements of Part M

Standard colour
WH
WH: White



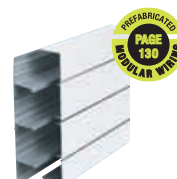
XL 301
size 220 x 65mm



XL 303
size 220 x 65mm



XL 311
size 308 x 65mm



XL 313
size 308 x 65mm

Note: For additional information on XL Trunking Aluminium, please refer to the section Aluminium Perimeter Trunking Systems on page 116.



Gas mounting plate
For MT Conquest
and XL Trunking

code	description	pack
EEBH05	1 gang	1
EEBH04	2 gang	1
EEBH03	3 gang	1

Note:

MT Conquest medical service units Series 220 and Series 240 are made to specification.



Bench trunking

code	size	pack
Base: MBTAB105	105 x 105mm	1 x 3m
Cover: MBTAL105		1 x 3m

Part M

1 and 2 gang box assemblies with contrasting coloured flush plates are available to comply with the requirements of Part M (DDA).








code	description	pack
ESPM1BU	1 gang - blue plate	1
ESPM1CH	1 gang - charcoal plate	1
ESPM1RD	1 gang - red plate	1
ESPM2BU	2 gang - blue plate	1
ESPM2CH	2 gang - charcoal plate	1
ESPM2RD	2 gang - red plate	1

Odyssey Part M box

Odyssey coloured boxes have a unique construction to provide Part M compliance. Please insert the required colour code after the product code, as shown below: BG = Beige; BN = Brown; BU = Blue; CH = Charcoal; GN = Green; LG = Light Grey; RD = Red.

code	description	pack
DD1510BU	1 gang	1
DD1520BU	2 gang	1

Aluminium component chart					
	XL 301 trunking 220 x 65mm	XL 303 trunking 220 x 65mm	XL 311 trunking 308 x 65mm	XL 313 trunking 308 x 65mm	Bench trunking 105 x 105mm
					
Base unit					
pack 1 x 3m	ELTB300	ELTB300	ELTB300	ELTB300	MTAB105WH
Extendable base					
pack 1 x 3m	–	–	ELEB300	ELEB300	–
Main cover					
pack 1 x 3m	LTL1WH	LTL1WH	2 x LTL1WH	2 x LTL1WH	MTAL105WH
Angled outer cover					
pack 1 x 3m	2 x ELAC300WH	–	2 x ELAC300WH	–	–
Square outer cover					
pack 1 x 3m	–	2 x ELSC300WH	–	2 x ELSC300WH	–
Dividing fillet					
pack 8 x 3m	ELDF200	ELDF200	ELDF200	ELDF200	BDF105WH
End cap					
pack 5	EEC401WH	EEC403WH	EEC401WH & ELLEC400WH	EEC403WH & ELLEC400WH	BEC105WH
Coupler					
pack 5	EC401WH	EC403WH	EC401WH & ELLEC400WH	EC403WH & ELLEC400WH	BTC105WH
Internal bend					
pack 5	EIB401WH	EIB403WH	EIB401WH & ELLIB400WH	EIB403WH & ELLIB400WH	BIA105WH
External bend					
pack 5	EXB401WH	EXB403WH	EXB401WH & ESLEB400WH	EXB403WH & ESLEB400WH	BEA105WH
Flat angles (up/down)					
pack 1	EFA301WH	EFA303WH	EFA311WH	EFA313WH	–
Flat tees (up/down)					
pack 1	EFT301WH	EFT303WH	EFT311WH	EFT313WH	–
Bonding terminal assembly					
Incoming 16mm ² / Base to base 63 amp Pack 5	LBT1 / LBT2	LBT1 / LBT2	LBT1 / LBT2	LBT1 / LBT2	LBT1
Bonding strap					
Base to base 32amp pack 5	LBS1	LBS1	LBS1	LBS1	LBS1
Bonding strap Cover to base)					
pack 5	LBS2	LBS2	LBS2	LBS2	LBS2
1 gang accessory box					
pack 20	ESSB1WH	ESSB1WH	ESSB1WH	ESSB1WH	–
2 gang accessory box					
pack 10	ESSB2WH	ESSB2WH	ESSB2WH	ESSB2WH	–
1 gang adjustable box					
pack 10	EAB1WH	EAB1WH	EAB1WH	EAB1WH	EAB1WH
2 gang adjustable box					
pack 5	EAB2WH	EAB2WH	EAB2WH	EAB2WH	EAB1WH

The MT Conquest range of Medical Service Units (bedhead units) are for horizontal applications and can accommodate a full range of services including gas, vacuum, nurse call, lighting, entertainments and power. MT Conquest are bespoke units and made to individual specification, making them an ideal solution for smaller hospitals, clean rooms, laboratories, factories with gas and air requirements, medical centres and surgeries.

Product information

MT Conquest

- 310 and 360 x 65mm
- 2 wiring compartments plus 1 large gas compartment
- Covers for gas mounting plates can be pre-punched to accept gas outlets
- Bespoke design to suit client specification
- 6060T5 aluminium, powder coat finish to RAL 9016
- Accepts standard UK wiring and data accessories



MT Conquest



Series 220

size 310 x 65mm



Series 240

size 360 x 65mm



Gas mounting plate
For MT Conquest
and XL Trunking

code	description	pack
EEBH05	1 gang	1
EEBH04	2 gang	1
EEBH03	3 gang	1

Case Study 1

For: Africa Mercy Ship

Product: MT Conquest Medical Service Units and XL303 Trunking



Mercy Ships is a global charity that has operated hospital ships in developing nations since 1978, serving those in desperate need of medical treatment free of charge without regard for race, gender or religion.

Marshall-Tufflex provided some very specific cable management solutions for the Africa Mercy Ship during its refit at Tyneside.

In all medical areas of the ship, MT Conquest Series Medical Service Units were installed. A specially tailored solution of twenty-seven horizontal units were supplied at varying lengths from 2.5 metres to 6.0 metres, all with a riser to the ceiling at one end to accommodate incoming supply.

Faceplates for gas valves, 1 and 2 gang switched sockets, outlets for data and telephone, and light switches, were all provided within each module and the Medical Service Units were installed by Marine Electrical Engineers, TBL Marine.

Fire and security containment systems

www.marshall-tufflex.com

A range of products
designed to British
Standard regulations,
specifically suited for
wiring fire alarm
systems and for
protection
against fire.



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

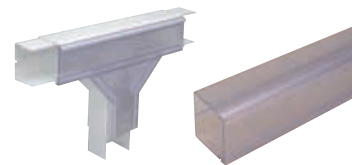
- Callmaster accessory boxes come complete with both internal pot retainers for mineral insulated (MI) cables and cable clamps included for use with conventional and fire performance cable
- No need for cable glands and shrouds
- Available with one or two entries for terminal or through wiring
- Suitable for single or twin cable runs to each entry
- Compatible for use with MMT2 red or white mini trunking

Standard colours	
WH	RD
WH: White RD: Red	



Clear maxi and mini trunking

is available and particularly useful for high security installations. For further information please contact our technical team on 01424 856688.



Trunking and fittings



Mini-trunking

code	size	pack
MMT2RD	25 x 16mm	30 x 3m
MMT2WH	25 x 16mm	30 x 3m



Coupler

code	description	pack
TC2RD	MMT2	40
TC2WH	MMT2	40



End cap

code	description	pack
TEC2RD	MMT2	100
TEC2WH	MMT2	100



Internal bend

code	description	pack
TIB2RD	MMT2	30
TIB2WH	MMT2	30



External bend

code	description	pack
TEB2RD	MMT2	30
TEB2WH	MMT2	30



Flat bend

code	description	pack
TFB2RD	MMT2	30
TFB2WH	MMT2	30



Equal tee

code	description	pack
TT2-2RD	MMT2	30
TT2-2WH	MMT2	30

Boxes



1G accessory box – 1 entry

code	depth	pack
MCM10RD	35mm	5
MCM10WH	35mm	5

with earth terminal



1G accessory box – 2 entry

code	depth	pack
MCM20RD	35mm	5
MCM20WH	35mm	5

with earth terminal



Circular accessory box

code	depth	pack
MCMR20RD	24mm	5
MCMR20WH	24mm	5

with earth terminal



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

code	fix. centre	pack
MDCRB2WH	50.8/60.3mm	10

Ø cut out = 70mm



Single back entry 34mm internal depth

code	fix. centre	pack
MDCRB1WH	50.8mm	10

Ø cut out = 64mm



20mm plain body cable glands

code	cable dia.	pack
MCGP2WH	7-10.5mm	25
MCGP2AWH	4-7mm	25



Plain bored circular boxes

code	type	pack
2MRB2WH	Terminal-1E	20
2MRB3WH	Through-2E	20
2MRB4WH	Angle-2E	20
2MRB5WH	Tee-3E	20
2MRB13WH	U-2E	20

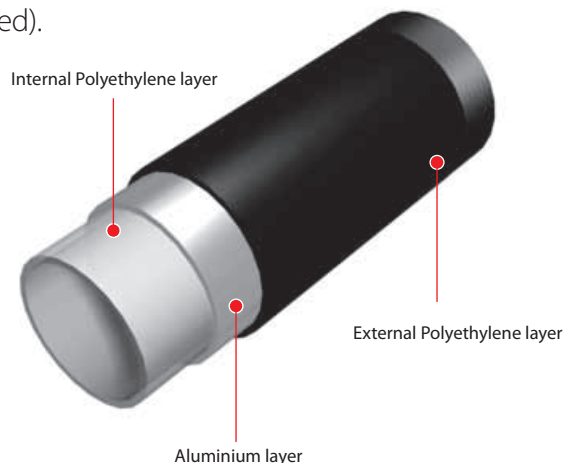
For use with 20mm plain body cable glands and ø20mm conduit

MT Supertube FR Plus is a LSOH, 3-layer heavy gauge conduit that has been specifically formulated to withstand temperatures up to 289°C. Comprising polyethylene internal and external layers over a continuous aluminium tube that provides additional mechanical strength. MT Supertube FR Plus has excellent EMI/EMC screening performance and meets the requirements of LUL (London Underground Ltd) engineering standard 2-01001-002 issue A1, material classification EQ/1 9 equipment/limited and dispersed).

Product information

- 20mm and 25mm
- 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
- Suitable for in-screed applications
- Withstands temperatures from – 40°C to + 289°C
- Nail penetration: MT Supertube FR Plus, complies with requirements for BS 7671, BS 8436 and BS EN 61386

Standard colours	
WH	BK
WH: White BK: Black	

**MT Supertube – standard version**

A standard version of MT Supertube is available. Please refer to Conduit Systems section on page 174 for more information.

Coils and lengths

**MT Supertube FR plus (coiled)**

code	size	pack
220FR10BK	20mm	100m
225FR05BK	25mm	50m

available in black or white

MT Supertube FR plus (lengths)

code	size	pack
220FR03WH	20mm	30 x 3m
225FR03WH	25mm	30 x 3m

available in black or white

Tools

**Tube cutter**

code	size	pack
20001	16-25mm	1

**Stripping tool (pre-set)**

code	size	pack
20002	16-25mm	1

**Compact tube bender**

code	size	pack
20003	20-25mm	1

Taper fit accessories for MT Supertube FR Plus

Product information

- Boxes have provision to accept a 4mm earthing screw.
- All boxes are designed to comply with the requirements of BS 7671
- Boxes are supplied with conduit retaining screw
- Taper fit accessories provide earth continuity

Standard colours

WH

BK

WH: White BK: Black

Options: Optional colours and finishes are available but these may be subject to longer lead times and minimum quantity orders. For further information telephone 01424 856688.

Taper entry



Conduit retaining screw

Boxes (metal)

**Loop-in box**

code	size	pack
22071BK	20mm	10

**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

Fittings (metal)

**Female adaptor with brass bush**

code	size	pack
22077BK	20mm	10
22577BK	25mm	10

**Male adaptor thread insert**

code	size	pack
22078MF*	20mm	10
22578MF*	25mm	10

*MF = mill finish

**Coupler**

code	size	pack
22079BK	20mm	10
22579BK	25mm	10

Fittings (polycarbonate)

**Spacer bar snap saddle LSOH**

code	size	pack
22051BK	20mm	100

**Spacer bar saddle LSOH**

code	size	pack
22552BK	25mm	100

**U-clip LSOH**

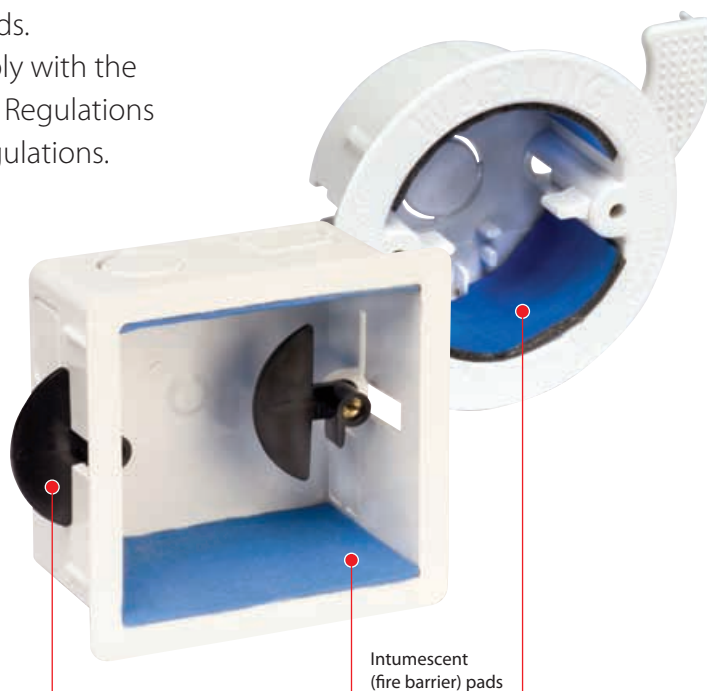
code	size	pack
22053BK	20mm	100
22553BK	25mm	50

Marshall-Tufflex dry lining boxes are now available with Envirograf® intumescent (fire barrier) pads.

With fire barrier pads fitted, boxes comply with the requirements of BS7671:2008 IEE Wiring Regulations and Document B of the UK Building Regulations.

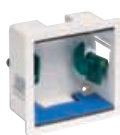
Snap out clamps with size identification by colour:

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



Intumescent (fire barrier) pads

Snap out clamps



1 gang 34mm internal depth

code	adj.	pack
MDLB3FWH	1-9mm	20
MDLB1FWH	6-14mm	20
MDLB7FWH	18-25mm	20

2 gang 34mm internal depth

code	adj.	pack
MDLB4FWH	1-9mm	10
MDLB2FWH	6-14mm	10
MDLB8FWH	18-25mm	10

Note: adj. = adjustment

Dual gang 34mm internal depth

code	adj.	pack
MDLB20FWH	1-9mm	5
MDLB22FWH	6-14mm	5
MDLB24FWH	18-25mm	5

Acoustic hoods

For information on acoustic pads please refer to page 181.



1 gang 46mm internal depth

code	adj.	pack
MDLB29FWH	9-26mm	10

2 gang 46mm internal depth

code	adj.	pack
MDLB30FWH	9-26mm	10



Single back entry 34mm internal depth

code	fix. centre	pack
MDCRB1FWH	50.8mm	10

Ø cut out = 64mm

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

code	fix. centre	pack
MDCRB2FWH	50.8/60.3mm	10

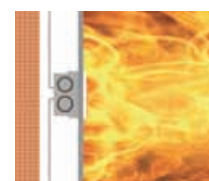
Ø cut out = 70mm

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.

Fire Protection is also available for other Marshall-Tufflex product ranges. Wraps can be supplied around PVC-U trunking or conduit systems and pillows to fill a trunking void. Many different shapes, sizes and thicknesses are available so for further details please contact our Technical Hotline on 01424 856688.



TuffMaster

Metal clad and ingress protected switches, sockets and RCDs

www.marshall-tufflex.com

A range of IP (ingress protection) rated sockets and metal clad wiring accessories for demanding environments. The range covers installation at commercial, industrial, agricultural and outdoor domestic locations.



The TuffMaster IP56 range is protected against adverse weather conditions when in use and fully closed. The range is designed to perform in demanding environments where exposure to dust or water may be encountered.

IP56 rating:

5	Protected against dust limited ingress, not harmful deposit	6	Protection against strong jets of water e.g. on ships' decks, limited ingress permitted.
---	---	---	--

Product information**RCD protected sockets**

- Protected in use to IP56 when lid is fully closed
- 1 and 2 gang options available
- In case of earth leakage from a fault or accident, the RCD will automatically cut off power before injury or damage is caused

IP56 sockets

- Protected in use to IP56 when lid is fully closed
- 1, 2 and 3 gang options
- International versions available

RCD switch socket combinations

- Weatherproof to IP56
- Mechanically (passive) or electrically (active) latched



Standard colour
LG
LG: Light Grey

Options: Other colours are available but may be subject to lead times and minimum order quantities. White WH; Terracotta TC; Green GN; Grey dark GD; Orange OR.

RCD protected sockets



1 gang 13Amp socket
30mA RCD protected

code	description/size	pack
TM5603LG	mechanically latched 109 x 152 x 90mm	1
TM5604LG	electrically latched 109 x 152 x 90mm	1



2 gang 13Amp socket
30mA RCD protected

code	description/size	pack
TM5607LG	mechanically latched 109 x 229 x 90mm	1
TM5608LG	electrically latched 109 x 229 x 90mm	1

RCD protected spur unit



13Amp fused spur
30mA RCD protected

code	description/size	pack
TM5611LG	mechanically latched 109 x 152 x 90mm	1

Unswitched sockets



1 gang 13Amp socket

code	size	pack
TM5613LG	109 x 75 x 90mm	1



2 gang 13Amp socket

code	size	pack
TM5614LG	109 x 152 x 90mm	1



3 gang 13Amp socket

code	size	pack
TM5615LG	109 x 229 x 90mm	1



16Amp 230V socket outlet
(international)

code	description/size	pack
TM5616LG	Schuko outlet 109 x 75 x 90mm	1
TM5617LG	French/Belgian outlet 109 x 75 x 90mm	1

Switched sockets

**13Amp switched socket**

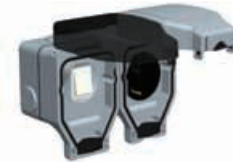
code	description/size	pack
TM5618LG	1 gang 109 x 152 x 90mm	1
TM5619LG	2 gang 109 x 229 x 90mm	1

**13Amp switched socket with neon**

code	description/size	pack
TM5621LG	1 gang double pole 109 x 152 x 90mm	1

**16Amp switched Schuko socket (international)**

code	description/size	pack
TM5620LG	2 gang 109 x 229 x 90mm	1

**16Amp switched Schuko socket with neon (international)**

code	description/size	pack
TM5622LG	1 gang double pole 109 x 152 x 90mm	1

Fused spur units

**Fused spur switched unit with neon**

code	size	pack
TM5623LG	109 x 152 x 90mm	1

**Fused spur unswitched unit**

code	size	pack
TM5624LG	109 x 75 x 90mm	1

Empty enclosures

**Product information
IP56 Empty enclosures**

- Protected in use to IP56 when lid is fully closed
- Available in 1, 2 and 3 gang versions
- Manufactured from polycarbonate

**IP56 Empty Enclosures**

code	description/size	pack
TM5628LG	Single grid 109 x 75 x 90mm	1
TM5629LG	Single grid lockable 109 x 75 x 90mm	1
TM5630LG	Double grid 109 x 152 x 90mm	1
TM5631LG	Double grid lockable 109 x 152 x 90mm	1
TM5632LG	Triple grid 109 x 229 x 90mm	1
TM5633LG	Triple grid lockable 109 x 229 x 90mm	1
TM5634BK	Single grid 109 x 75 x 90mm	1

Industrial use lid and housing

**Product information
IP56 Lid/housing/RCD**

- Protected in use to IP56 when lid is fully closed
- For OEMs (no back box supplied)
- RCDs can be either mechanically (passive) or electrically (active) latched
- Manufactured from glass nylon polyimide for greater impact strength
- Resistant to fertilisers, petrochemical products, mild acids and cleaning/washing agents

**1 gang 13Amp 30mA RCD**

code	description/size	pack
TM5625BK	mechanically latched 109 x 75 x 90mm	1
TM5626BK	electrically latched 109 x 75 x 90mm	1

**1 gang 13Amp socket**

code	description/size	pack
TM5627BK	109 x 75 x 90mm	1

Note:

Please note these products are only available in Black BK.

IP55 Enclosures protect against some ingress of dust and water and are ideal for use in the garden, garage and patio areas.

IP55 rating:

5	Protected against dust limited ingress, not harmful deposit	5	Protected against low pressure jets of water from all direction, limited ingress permitted.
---	---	---	---

Product information

- Lid allows security lock or seal to be fitted
- RCDs can be either electrically (active) or mechanically (passive) latched
- Underside cable entry prevents ingress of water
- Removable lid for easy wiring access
- Casing made from polycarbonate



IP55 Enclosures



**2 gang 13Amp socket
with 30mA RCD (metal clad faceplate)**

code	description/size	pack
TM5501LG	mechanically latched 166 x 142 x 90mm	1
TM5508LG	electrically latched 166 x 142 x 90mm	1



**2 gang 13Amp socket
with 30mA RCD (polycarbonate faceplate)**

code	description/size	pack
TM5510LG	mechanically latched 166 x 142 x 90mm	1



2 gang 13Amp socket

code	description/size	pack
TM5503LG	metal clad faceplate 166 x 142 x 90mm	1
TM5504LG	polycarbonate faceplate 166 x 142 x 90mm	1

IP55 Fused spur



**Fused spur
with 30mA RCD**

code	description/size	pack
TM5502LG	mechanically latched 166 x 142 x 90mm	1



The range of IP54 sockets and switches is splash proof and protected for limited dust ingress. These products are for use in areas such as residential porches, garages and covered patio areas and can also be used in selected industrial areas that will not be subjected to heavy jets of water.

IP54 rating:

5	Protected against dust limited ingress, not harmful deposit	4	Protected against water splashed from all directions, limited ingress permitted
---	---	---	---

Product information

- Sockets protected to IP54 when not in use and lid fully closed



IP54 Switches

**1-way switch**

code	description	size	pack
TM5404LG	2 gang	75 x 75 x 52mm	1

**2-way switch**

code	description	size	pack
TM5401LG	1 gang	75 x 75 x 52mm	1
TM5406LG	2 gang	75 x 75 x 52mm	1

**Double pole switch**

code	description	size	pack
TM5402LG	1 gang	75 x 75 x 52mm	1
TM5407LG	2 gang	75 x 152 x 52mm	1

**1 gang switch with neon**

code	description	size	pack
TM5409LG	2 way	75 x 75 x 52mm	1
TM5410LG	double pole	75 x 75 x 52mm	1

**Intermediate switch**

code	description	size	pack
TM5403LG	1 gang	75 x 75 x 52mm	1
TM5408LG	2 gang	75 x 75 x 52mm	1

IP54 Unswitched sockets

**13Amp unswitched sockets**

code	description	size	pack
TM5411LG	1 gang	75 x 75 x 62mm	1
TM5412LG	2 gang	75 x 152 x 62mm	1
TM5413LG	3 gang	75 x 229 x 62mm	1

IP54 Switched sockets

**13Amp switched socket**

code	description	size	pack
TM5414LG	1 gang	75 x 152 x 62mm	1

**13Amp switched sockets**

code	description	size	pack
TM5416LG	2 gang	75 x 229 x 62mm	1

**13Amp switched socket double pole**

code	description	size	pack
TM5415LG	1 gang	75 x 152 x 62mm	1

TuffMaster's metal clad range of switched sockets is ideal for use in garages, offices and factories and other commercial and industrial environments.

Product information

- 1 and 2 gang switched sockets with or without neons
- RCDs can be either electrically (active) or mechanically (passive) latched
- For interior perimeter fitting
- Sockets are dual earth



Switched sockets



**13Amp
1 gang switched socket**

code	size	pack
TM0001SG	86 x 86 x 51mm	10



**13Amp
2 gang switched socket**

code	size	pack
TM0002SG	86 x 147 x 51mm	5



**13Amp
1 gang switched socket
with neon**

code	size	pack
TM0003SG	86 x 86 x 51mm	10



**13Amp
2 gang switched socket
with neon**

code	size	pack
TM0004SG	86 x 147 x 51mm	5

Switches



**10Amp
1 gang 1-way switch**

code	size	pack
TM0020SG	80 x 80 x 48mm	5



**10Amp
2 gang 2-way switch**

code	size	pack
TM0021SG	80 x 80 x 48mm	5



**20Amp switch
double pole**

code	size	pack
TM0026SG	80 x 80 x 48mm	5



**20Amp switch
double pole with neon**

code	size	pack
TM0027SG	80 x 80 x 48mm	5

Fused spurs



**13Amp
fused spur**

code	size	pack
TM0022SG	80 x 80 x 48mm	5



**13Amp
fused spur with neon**

code	size	pack
TM0023SG	80 x 80 x 48mm	5



**13Amp fused spur
double pole switch**

code	size	pack
TM0024SG	80 x 80 x 48mm	5



**13Amp fused spur
double pole switch with neon**

code	size	pack
TM0025SG	80 x 80 x 48mm	5

RCD sockets and spurs



**2 gang 13Amp socket
30mA RCD**

code	description/size	pack
TM0005SG	mechanically latched 86 x 147 x 51mm	5
TM0014SG	electrically latched 86 x 147 x 51mm	5



**Fused spur
30mA RCD**

code	description/size	pack
TM0007SG	mechanically latched 86 x 86 x 51mm	5



**2 gang unswitched socket
faceplate 30mA RCD protected
(polycarbonate)**

code	description/size	pack
TM0010WH	mechanically latched 86 x 147 x 15.6mm	5



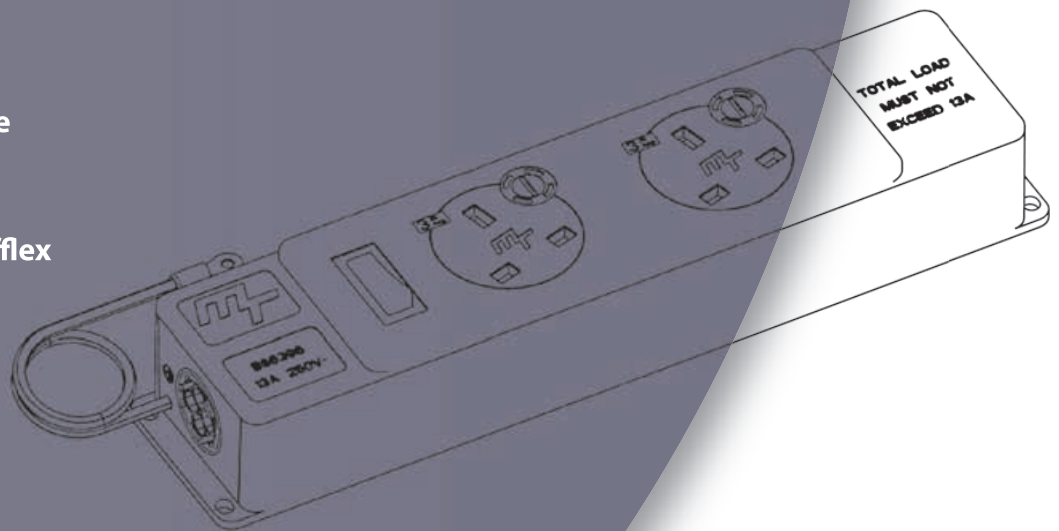
**Fused spur faceplate
30mA RCD protected
(polycarbonate)**

code	description/size	pack
TM0009WH	mechanically latched 86 x 86 x 15.6mm	5

Technical information

www.marshall-tufflex.com

This information is intended to provide the specifier or contractor with guidance on all aspects of Marshall-Tufflex cable management products, from specification to installation.



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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 4678, BS EN 50085
Fire Performance	BS 476 PT6 & PT7 BS 4678 BS EN 50085 UL94	1Y PASS PASS V-0 @1.6mm
Oxygen Index		42%
Tensile Strength		492/562 kg/cm ²
Insulation Resistance		To the requirements of BS 4678, BS 4607, BS 6099, BS EN 50085, BS EN 61386-1
Chemical Resistance		See below
Vicat Softening Point (conduit & trunking)		80°C BS EN ISO 306 (BS 2782-1:METHOD 120B)
Vicat Softening Point (moulded fittings)		76°C BS EN ISO 306 (BS 2782-1:METHOD 120B)

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 above 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 and BS EN 50086. (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 clause of BS 4678 Part 4 (1982) Cable Trunking Standard and the -5°C Heavy Gauge Requirements of BS EN 61386-1.

Standards

Trunking systems are manufactured to comply with the requirements of BS 4678 Part 4 (1982) where applicable. Conduit systems comply with the requirements of BS EN 50086 and BS 4607.

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.

Vicat softening point – ISO 306	VST/B 145°C
Flammability to UL94 @ 1.5mm	94V-2
Flammability – oxygen index	35%
Density	1.2g/cm ³
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/cm ³	
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 6060TS: Series 2 PowerPole and PowerPost, Bench Trunking Aluminium, Sterling Profile Aluminium, XL Aluminium, Twin Plus Aluminium.
Tensile strength: 190N/mm²
Co Efficient of linear expansion: 24 x 10⁻⁶/m/°C.
Thermal conductivity: 120W/m/°C.

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 01424 856688.

Note: To determine the suitability of PVC-U for external applications we strongly recommend you contact our Technical Team on 01424 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	0,885.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	✓	
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	✓	✓

Chemical	Concentration	Unplasticised PVC	
		20°C	60°C
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	≈	≈
hydrogen bromide	anhydrous	✓	✓
hydrogen chloride	anhydrous	✓	✓
hydrogen flouride	anhydrous	✓	✓
hydrogen peroxide	3% (10vol)	✓	✓
	12% (40 vol)	✓	✓
	30% (100 vol)	✓	✓
	90% and above	✓	✓
hydrogen sulphide		✓	✓
iodine	solution in potassium iodide	≈	≈
lactic acid	10% aq. solution	✓	✓
	100%	≈	≈
lanoline		✓	✓

Chemical	Concentration	Unplasticised PVC	
		20°C	60°C
linoleic acid		✓	✓
linseed oil		✓	✓
magnesium hydroxide		✓	✓
maleric acid	50% aq. solution	✓	
	concentrated	✓	#
metallic soaps (water soluble)		✓	✓
methyl bromide		≈	≈
methyl chloride		≈	≈
methyl cyclohexanone		≈	≈
methyl ethyl ketone		≈	≈
methyl isobutyl ketone		≈	≈
methylated spirit		✓	
methylene chloride		≈	≈
milk		✓	✓
mineral oil		✓	✓
mixed acids	(sulphic/nitric various proportions)	#	≈
molasses		✓	✓
naptha		✓	✓
napthalene		≈	≈
nicotine		✓	✓
nitric acid	5% aq. solution	✓	
	50% aq. solution	✓	#
nitrobenzene		≈	≈
oleic acid		✓	✓
oxalic acid		✓	✓
oxygen		✓	✓
ozone		✓	✓
paraffin		✓	✓
pentane		✓	
petrol		✓	✓
phosphoric acid	30% aq. solution	✓	✓
	95% aq. solution	✓	✓
photographic developers		✓	✓
potassium bromide		✓	✓
potassium carbonate		✓	✓
potassium cyanide		✓	✓
potassium ferricyanide		✓	✓
potassium hydroxide	10% aq. solution	✓	✓
	concentrated	✓	✓
potassium hypochlorite		✓	✓
potassium permanganate		✓	✓
propane		✓	
propylene glycol		✓	✓
propylene oxide		≈	≈
saccharose		✓	✓
sea water		✓	✓
silver nitrate		✓	✓
soap solution		✓	✓
sodium bicarbonate		✓	✓
sodium bisulphite		✓	✓
sodium borate		✓	✓
sodium bromide		✓	✓
sodium carbonate		✓	✓

Chemical	Concentration	Unplasticised PVC	
		20°C	60°C
sodium chlorate		✓	✓
sodium chloride		✓	✓
sodium cyanide		✓	✓
sodium ferricyanide		✓	✓
sodium ferrocyanide		✓	✓
sodium fluoride		✓	✓
sodium hydroxide	40% aq. solution	✓	✓
	concentrated	✓	✓
sodium hypochlorite 15%Cl		✓	✓
sodium hyposulphate		✓	✓
sodium nitrate		✓	✓
sodium peroxide		✓	✓
sodium silicate		✓	✓
sodium sulphate		✓	✓
sodium sulphide	25% aq. solution	✓	✓
	concentration	✓	✓
sodium sulphite		✓	✓
soft soap		✓	✓
surface active agents	All concentrations	✓	✓
(emulsifiers, synthetic detergents and wetting agents)			
starch		✓	✓
stearic acid		✓	✓
sucrose		✓	✓
sulphur	Colloidal	✓	✓
sulphur dioxide	Dry	✓	✓
	Liquid	#	≈
sulphuric acid	80% aq. solution	✓	✓
	90% aq. solution	✓	#
	Fuming	≈	≈
sulphurous acid	10% aq. solution	✓	✓
tallow		✓	✓
tanning extracts		✓	✓
tartaric acid		✓	✓
transformer oil		✓	✓
trichloroethane		≈	≈
trichloroethylene		≈	≈
turpentine		✓	✓
vegetable oils		✓	✓
vinegar		✓	✓
water		✓	✓
wetting agents	All concentrations	✓	✓
wines and spirits		✓	
xylene		≈	≈
zinc carbonate		✓	✓
zinc chloride		✓	✓
zinc sulphide		✓	✓

MT32 Wiring distribution systems and accessories

General Specification

Approvals: System	Designed to comply with BS 7671 IEE Wiring Regulations
Approvals: Connector	Designed to comply with EN 61535 (Fixed installation couplers for permanent connection)
Normal Voltage	230 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

Extension, Connection, Adaptor and Terminal Cables

Cable Type	3183B (HO5Z-F) to BS 6360 (LSOH)
Size	2.5mm ² x 3 core
Connector Self Lock Retention	> 80N
Male/Female Connector Diameter	19.2 mm
Terminal Block	6 x 2.5mm ²
Adaptor (2.5mm ²)	20mm

Extension, Connection, Adaptor and Terminal Cables

Cable Type	6491B (HO1Z-R) to BS 7211 (LSOH)
Size	4.0mm ² x 3
Connector Self Lock Retention	> 80N
Male/Female Connector Diameter	19.2 mm
Terminal Block	6 x 4.0mm ²
Adaptor (4.0mm ²)	20mm

Earthing requirements for the installation of equipment having High Protective/Conductor currents. BS 7671: 2008 Reg. 543.7

The scope of Reg. 543.7.1.3 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.

Flex System 2.5mm² 3 Core Ring Final Circuit

MT32 ring flex system conforms to the high integrity protective requirement by having a ring protective conductor of 2.5mm² (543.7.2.1) providing the ends of all protective conductors are terminated independently at all connection points throughout the circuit. (543.7.1.4)

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, (543.7.1.3ii) with the protective conductor being enclosed throughout in trunking or flexible conduit, provide additional protection against mechanical damage.

Different key ways apply between 2.5mm² and 4.0mm²

Note: For technical information on Home Run units and Lighting hubs please call Technical hotline on 01424 856688

Series 507 Powertrack

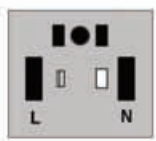
Series 507 Powertrack is an underfloor busbar system rated at 63Amp maximum. It is available in Standard or CE (Clean Earth) versions.

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

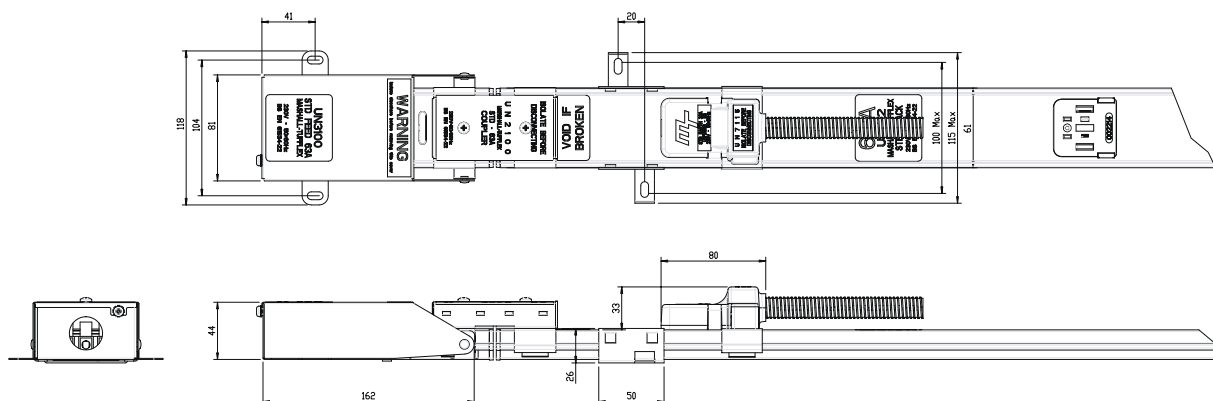
- For the most economic format, it is advised that Series 507 Powertrack is arranged in parallel runs with powertrack feed units orientated to the incoming supply.
- For optimum layout flexibility, spacing should be a maximum of 5.5m between each length of track and 2.5m from the perimeter when using a standard 3m tap-off to a floor box.

Installation

- With the first length of powertrack, snap the integral coupler into the feed unit socket.
- Fit the next length of powertrack to the first length by means of the integral coupler socket.
- Secure the feed unit to the floor via the slots in the base.
- Secure the powertrack every 1200mm (max) using the mounting brackets provided.

Tap-offs

- Each tap-off position along the powertrack is protected by a shutter.
- Provision of power from the powertrack is provided by inserting a key and colour coded tap-off into a shuttered socket.
- The tap-off unit comes complete with 4.0mm² LSOH cabling welded directly to the contacts with a flexible outer steel conduit.
- Available in 3m and 5m lengths
- Fused or unfused
- Remove the tap-off by releasing the twin clips that operate automatically on plug insertion. Tap-offs can be removed when the system is live.



Electrical Characteristics

Rated Current	63	Amps
Rated Voltage	230	Volts
Frequency	50/60	Hz
Conditional Short Circuit Rating	(Protection device:BS88 fuse)	16 KA
Conductor Resistance Line & Neutral	3.2	mΩ/m
Conductor Impedance	1.6	mΩ/m
Volt Drops Line & Neutral	Powertrack	3.2 mV/A/m
	Feed Unit + Coupler	2.2 mv/A
	Tap-Off	0.73 mV/A
	4mm ² Cable	12.0 mV/A/m
	Coupler	1.5 mV/A
	Interlink Unit	4.5 mV/A
	10mm ² Cable (1.2m)	4.7 mV/A/m
	Line to Earth (Casing)	2.8 mΩ/m
Earth Fault Loop Impedance:	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	12.0 mΩ/m
	Coupler	1.5 mΩ
	Interlink Unit	4.5 mΩ
	10mm ² Cable	4.7 mΩ/m

Mechanical Data

Number of Copper Conductors	2 or 3
Conductor Cross-section Area	Nominal 12 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	Ø16 or Ø20 mm
Flexible Interlink Cable	10 mm ²
Flexible Interlink Conduit	Ø25 mm
Feed Conduit Entry	2 x Ø25 mm
IP Rating	40
Minimum void depth (track + tap-off)	56 mm

Materials specification

Powertrack Casing	Galvanised Steel
Conductors	High Conductivity Copper
Powertrack Insulators	PBT
Sockets/Tap-Off Plug/Joint Mouldings	Polycarbonate LSF
Shutter	PBT
Tap-Off/Interlink Flexible Conduit	Galvanised Steel
Tap-Off Cable	LSF cable to BS7211
Tap-Off/Coupler Blade	Brass Silver Plated
Feed Unit Case	Galvanised Steel
Flexible Interlink Cable	LSF cable to BS7211
Feed/Flexible Interlink Housing	Galvanised Steel

Ambient temperature correction factors

Temperature	25°C	30°C	35°C	40°C	50°C
Factor	1.13	1.07	1.0	0.92	0.76

Technical Specifications

Third party certified and tested to comply with:

BS EN 60 439-1: 1999 IEC 60439-1: 1999
BS EN 60 439-2: 2000 IEC 60439-2: 2000
BS 5733: 1995 where applicable.

Marshall-Tufflex is registered by BSI to BS EN ISO9001

MT Powertrack is designed to comply with the requirements of BS 7671: 2008 (IEE Wiring Regulations).

Regulation 543.7 Installations to BS 7671:2008 Earthing requirements for the installation of equipment having high protective/conductor currents.

The scope of Reg. 543.7.1.3 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 507 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 543.7.1.3(ii).

32Amp 3 metre tap-off unit

The 32Amp tap-off unit comprises of an unfused tap-off* a flexible metal conduit with integral 4mm² LSF conductors.

These units are designed to comply with regulation 434.2.1(i) of BS 7671:2008 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.

Series 507 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.

Material

- Lid/trim: polypropylene grey RAL 7011
- Box assembly: galvanised steel
- Load plate: galvanised steel
- Accessory plate: plastisol RAL 7044

Installation

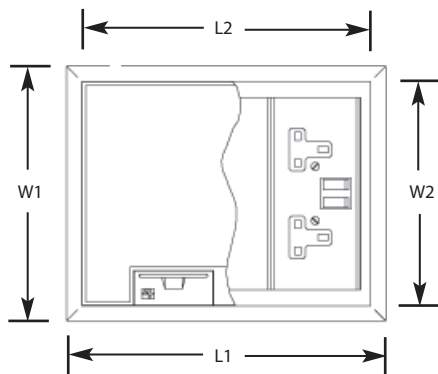
- Box module has 20 and 25mm knockouts (pre-wired options available).
- Mounting plates:
3 compartment = 185 x 95mm
4 compartment = 185 x 71mm
- Standard accessory mounting plates available depending on suitability of floor box configuration.
- Cable covers protect cables when lid is closed.
- Detailed installation instructions are supplied in box.

Dimensions

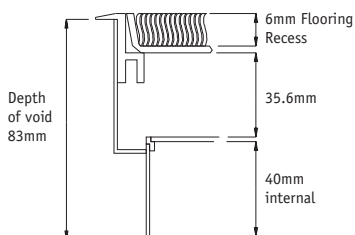
Box type	Nominal trim size (L1 x W1)	No of compartments	Cut out dimensions (L2 x W2)	Accessory Plate Dimensions
URF32	355 x 255mm	3	322 x 222mm	185 x 95mm
URF42	355 x 255mm	4	322 x 222mm	185 x 71mm

General tolerance
+3mm

Care should be taken to ensure that box edges are smoothed and free from burrs.



For dimensions of non standard boxes and trims, contact Technical Hotline on 01424 856688.



Standards

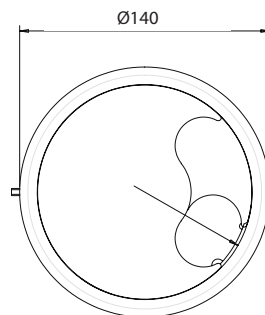
- Steel load plate: withstands working loads to PSAMOB PF2PS January 1990 (specification for raised floors).

Series 507 Grommets

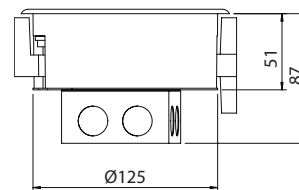
Material

- ABS Flame retardant
- Flammability: UL94 V-O 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



Series 507 In-screed system Floor outlet Box

Three and four compartment boxes configured to meet client requirements for accessing multiple services concealed below a raised floor system.

Standard system is suitable for screed depths of 60mm to 85mm. For other screed depths please contact the Technical Team on 01424 856688.

Material

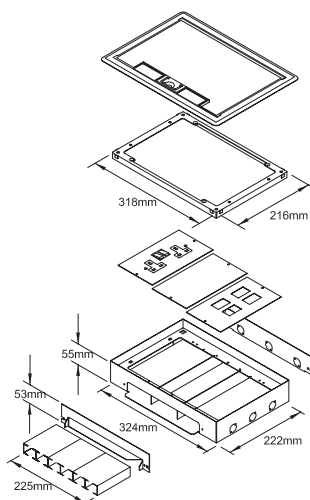
- Lid/trim: polypropylene grey RAL 7011
- Frame assembly: galvanised steel
- Modular boxes: galvanised steel
- Load plate: galvanised steel

Installation

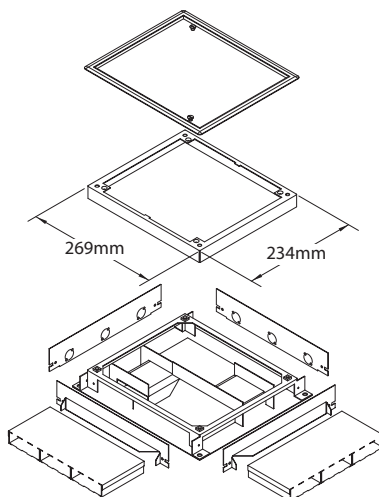
- Layout planning essential as alterations are not possible once screed is laid.
- Place floor boxes and junction boxes in position with top of boxes level and in line with expected finished floor level.
- Adjust boxes to screed depth by adjusting sub frame height.
- When boxes are in correct position, use PVC-U or steel duct to link between.
- To use conduit for linking boxes, utilize the Ø20mm knockout in the blank plate.
- Floor boxes can only be used as through boxes.
- Junction boxes have all round access with internal segregation.
- Duct adaptors and blank ends are not supplied for junction and service boxes. These must be ordered separately to individual requirements.
- Use a connector to join lengths of ducting.
- Flat and vertical bends or junction boxes are used where a change of direction is required.
- An optional steel screeding plate (USFSP1) is available to replace the box lid temporarily when screeding the floor.

Wiring accessories and mounting plates

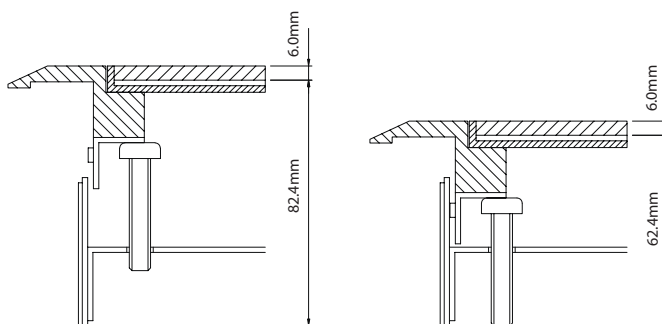
- 3 compartment box: 185 x 95mm
- 4 compartment box: 185 x 71mm
- For use with standard 60.3mm and 120.6mm accessories with blank or pre-punched plates for data/telecoms etc.



Junction box



Box screed depth adjustment



MT32 Pre-wired underfloor power distribution**Singles Cabling System****Extension, Connection, Adaptor and Terminal Cables**

Cable Type	6491B (HO1Z-R) to BS 7211 (LSOH)
Size	4.0mm ² x 3
Connector Self Lock Retention	> 80N
Male/Female Connector Diameter	19.2mm
Terminal Block	6 x 4.0mm ²
Adaptor (4.0mm ²)	20mm

Underfloor Distribution System**Conduit Assembly, Tap Off and Adaptor**

Cable Type	6491B (HO7Z-R) to BS 7211 (LSOH)
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
Protection: Tap Off	20mm Steel flexible conduit

Master Distribution Unit, Slave Unit, MCB Distribution Unit, Floor Box Assembly

Cable Type	4.0mm ² 6491B (HO7Z-R) to BS 7211 (LSOH)
Protection	Outer: Galvanised steel
MCB Rating	On request
Adaptor (4.0mm ²) entry size	20mm

Master Distribution Unit, MCB Distribution Unit

SWA Gland entry size	25mm
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Different key ways apply between 2.5mm² and 4.0mm²

General Specification

Approvals: System	Designed to comply with BS 7671:2008 IEE Wiring Regulations
Approvals: Connector	Designed to comply with EN 61535 (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.**BS 7671: 2008 Reg. 543.7**

The scope of Reg. 543.7.1.3 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, (543.7.1.3ii) with the protective conductor being enclosed throughout in trunking or flexible conduit to provide additional protection against mechanical damage.

Note: Different key ways apply between 2.5mm² and 4.0mm²

Desk units

Flip up units

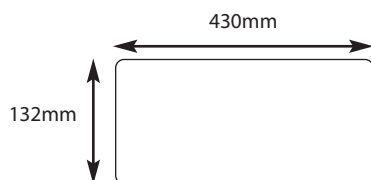
- Units have bi-directional access and are suitable for installation to BS 6396.
- Up to 4 x individually fused 3.15 and 5Amp sockets.
- Up to 4 x data outlets.

Fitting

- Simple, secure ratchet with hidden screw fixing.

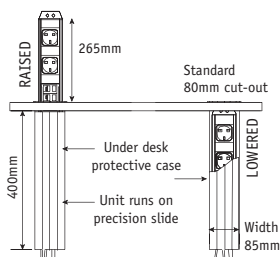
Desk cut out size

- 132 x 430mm.
- Unit casing depth 90mm from top surface of desk.
- It is recommended that at least 400mm is clear below the cut out to allow cables to move freely.
- Cut out width is constant (132mm).
- Cut out length (430mm) will vary according to order requirements.

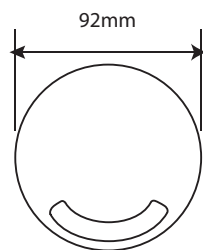


Pull up units

- 2 x sockets and 2 x RJ45 maximum.



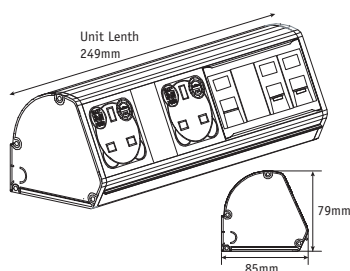
Desk grommets



Cut out size

Box type	Diameter
DG1	80mm
General tolerance	2mm

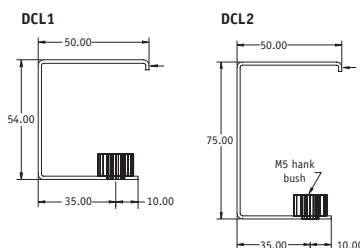
Curved surface units



Adjustable desk clamp

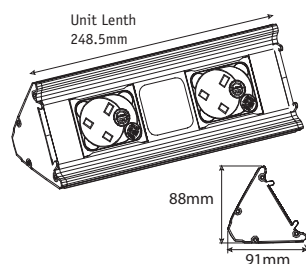
Adjustable clamps suit desks from 5mm – 48mm thick.

- For use with curved surface units only.



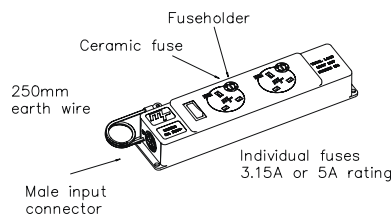
Angled surface units

- Adhesive pad fixing included



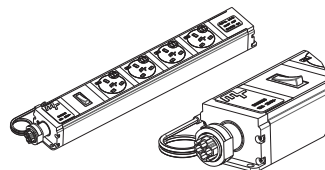
Moulded units

- Maximum of 4 sockets fused at 5Amps or 6 sockets fused at 3.15Amps fed from 13Amp supply plug.
- Through units with a female exit must be specified on order.



Aluminium units

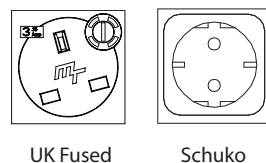
Aluminium units with optional MT32 sockets.



Socket type and orientation

Most European socket types can be accommodated, including Schuko.

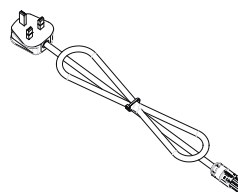
All BS 1363 sockets are available individually fused.



Cable type

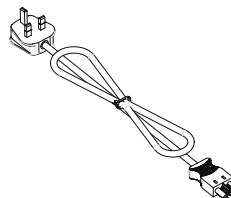
In-feed power cable shown with optional MT32 connector.

- 13Amp rating.
- Specification of cable length is necessary.



In-feed power cable shown with optional Wieland connector.

- 13Amp rating.
- Specification of cable length is necessary.



Power module earth lead

Size: 2.5mm²

Length: 250mm with 5mm ring terminal.

Standards

- BS 6396 Electrical Systems in Office Furniture.
- BS 1363-2 (where applicable).

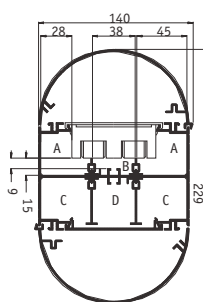
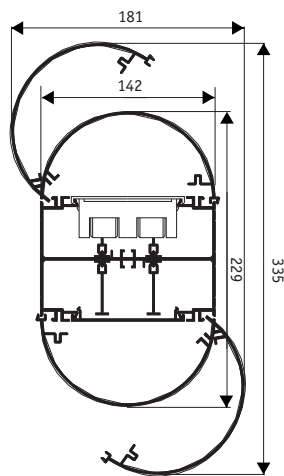
Series 2 PowerPole**Double sided PowerPole**

with 4 hinged lids and 14 ESSB1WH outlets (NPPE36001441)

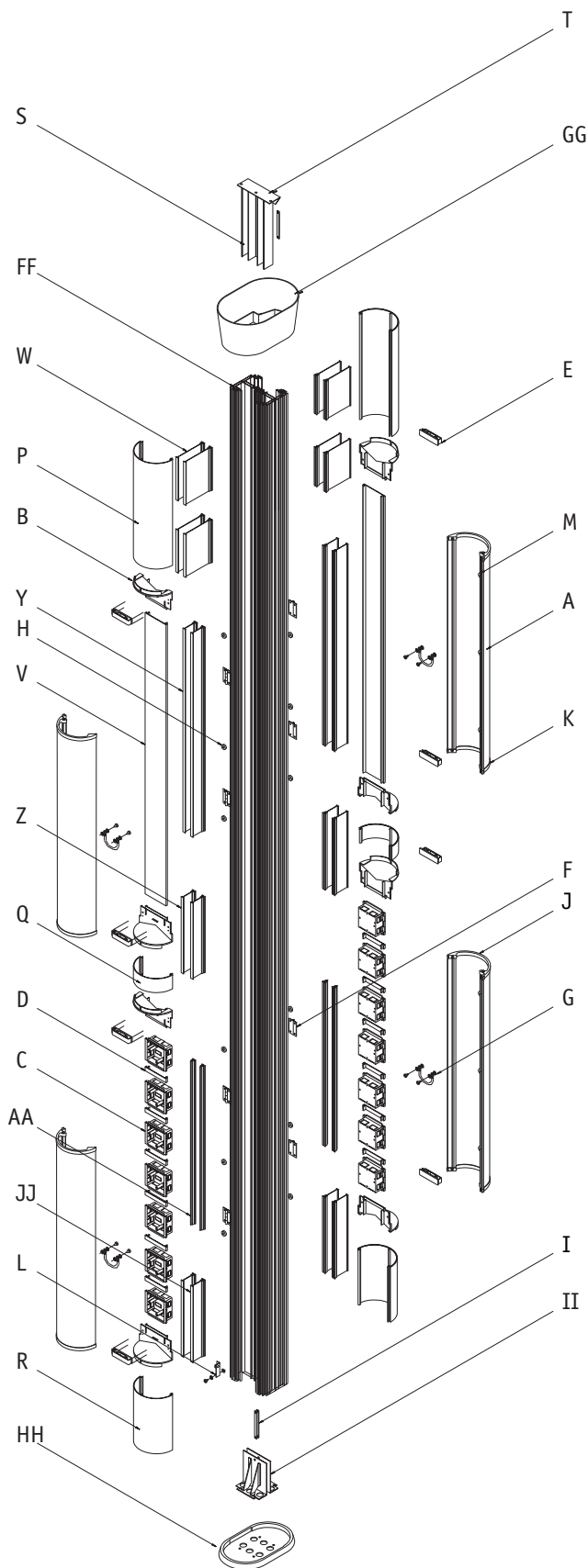
Code	Description	Quantity
FF	NPPMB3600 Square PowerPole base 3600mm long	1
A	NPPHL716 Hinged lid assembly	4
P	NPPCL1720 Clip on lid 1720mm long	2
Q	NPPCL50 Clip on lid 50mm long	2
R	NPPCL200 Clip on lid 200mm long	2
J	NPPUT Hinged lid upper trim	4
K	NPPLT Hinged lid lower trim	4
GG	NPPTC3 Oval top sliding 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

Note: The Sterling PowerPole is 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 (*PHAS2).

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.



Series 2 PowerPole – continued

Single sided PowerPole

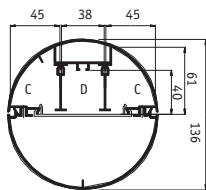
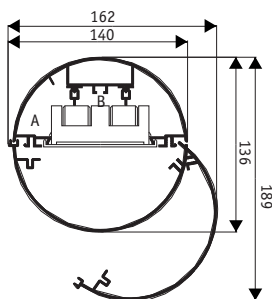
with 2 hinged lids and 7 ESSB1 outlets (NPPC3600721)

Code	Description	Quantity
BB	NPPB3600 Semi-circular PowerPole base 3600mm	1
A	NPPHL716 Hinged lid assembly	2
P	NPPCL1730 Clip on lid 1730mm long	1
Q	NPPCL50 Clip on lid 50mm long	1
R	NPPCL200 Clip on lid 200mm long	1
J	NPPUT Hinged lid upper trim	2
K	NPPLT Hinged lid lower trim	2
O	NPPTC2 Top sliding cover	1
N	NPPBF4 Circular base foot	1
B	NPPBH1 Bulkhead	4
U	PPBF6 Base foot (galvanised)	1
E	NPPCC1 Cable clip	4
C	ESSB1 Single gang box	7
D	ES1 Spacing cover	6
F	NPPH1 Stainless steel hinges	4
I	PPSN1 Sliding nut	2
H	NPPLH1 Disc latch	5
M	NPPMC1 Magnet catch	6
G	NPPLBS1 Hinged lid bonding strap	2
	LBS2 Clip on lid bonding strap	3
L	PPBT1 16mm bonding terminal assembly	1
S	*PHAS1 Top adjusting slide 250mm long	1
T	NPPFB2 Top fixing bracket	1
AA	MDFS15W632 15mm dividing fillet 632mm long	2
Z	MDFS50W200 50mm dividing fillet 200mm long	2
Y	MDFS50W710 50mm dividing fillet 710mm long	2
X	MDFS50W145 50mm dividing fillet 145mm long	2
W	MDFS100W1630 100mm dividing fillet 1630mm long	2
V	ETL1W633 Sterling lid 633mm long	1

Note: The Sterling PowerPole is 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 (*PHAS2).

Full installation instructions are included within each pack.

Dimensions and cable capacities

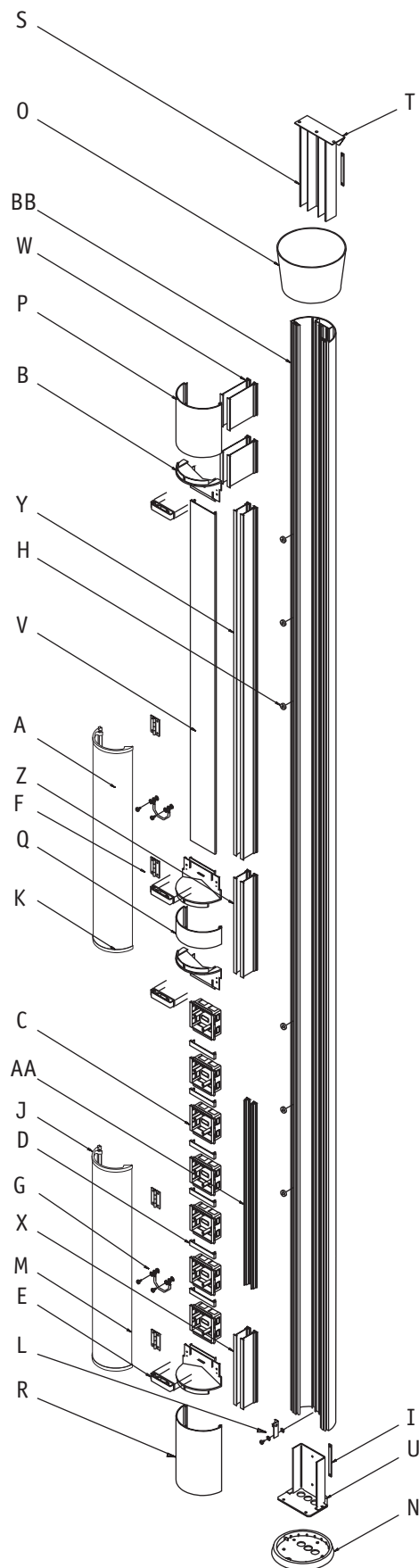


A = 1238 sq mm total area
45% space factor = 557 sq mm.

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.



Double sided PowerPole

Code	Description	Quantity
PP36001	250mm adj. slide incl	1 pack
PP36002	1150mm adj. slide incl	1 pack
A	PPFB1 Fixing Bracket	1
B	PHAS1/2 *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)	1 pair
J	PPBF1 Base Foot (white only)	1
K	ES1 Spacing Cover	5
L	PPBT1 16mm Bonding Terminal Ass.	1
PPF1	Fixing Kit	1

*The Sterling PowerPole is 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.

1400mm Extension Pole body kits available to increase Pole height to 4.0m.

Full installation instructions are included within each pack.

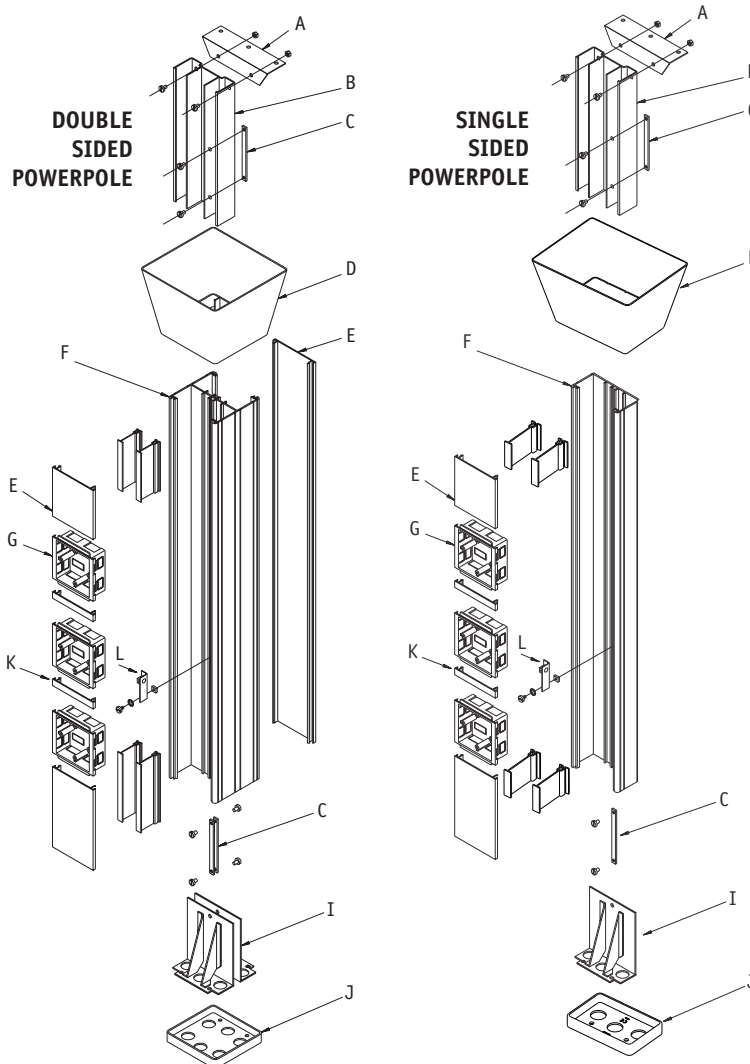
Single sided PowerPole

Code	Description	Quantity
PPS36001	250mm adj. slide	1 pack
PPS36002	1150mm adj. slide	1 pack
A	PPFB2 Fixing Bracket	1
B	PHAS1/2 *Adjusting Slide	1
C	PPSN1 Sliding Nut	3
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
PPF1	Fixing Kit	1

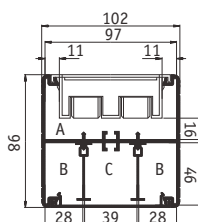
*The Sterling PowerPole is suitable for both solid and suspended ceilings up to 3.6 metres high. An alternative adjusting slide which can be extended to one metre is available for additional heights within the ceiling void.

1400mm Extension Pole body kits available to increase Pole height to 4.0m.

Full installation instructions are included within each pack.



Dimensions and cable capacities



Double sided PowerPole

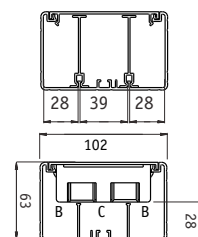
A = 2017 sq mm total area 45% space factor = 907 sq mm.

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.

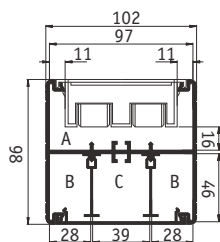
Double sided PowerPost

	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)	1 pair
G	PPBF1	Base Foot (white only)	1
H	ES1	Spacing Cover	5
L	PPBT1	16mm Bonding Terminal Ass.	1
	PPF2	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.

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

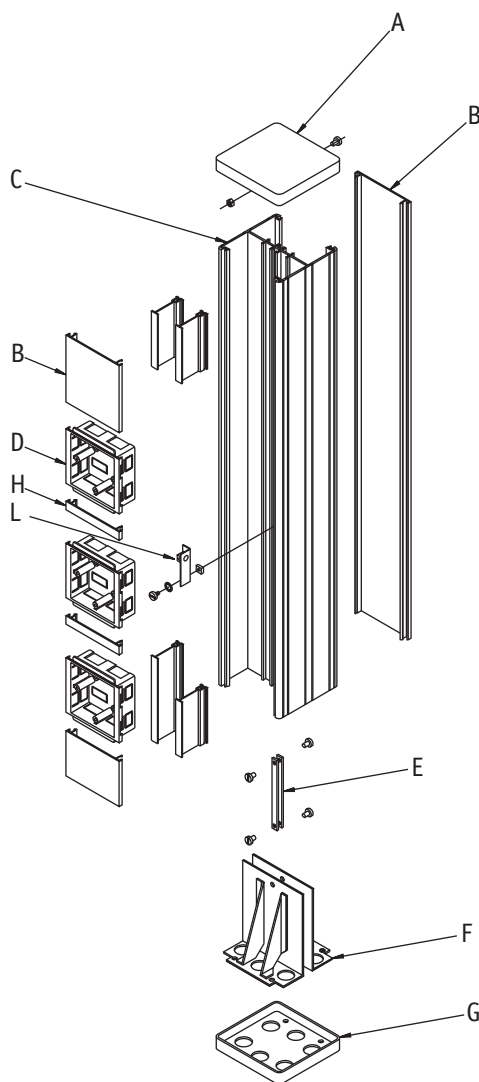
45% space factor = 1927 sq mm.

B = 1148 sq mm total area

45% space factor = 516 sq mm.

C = 1547 sq mm total area

45% space factor = 696 sq mm.



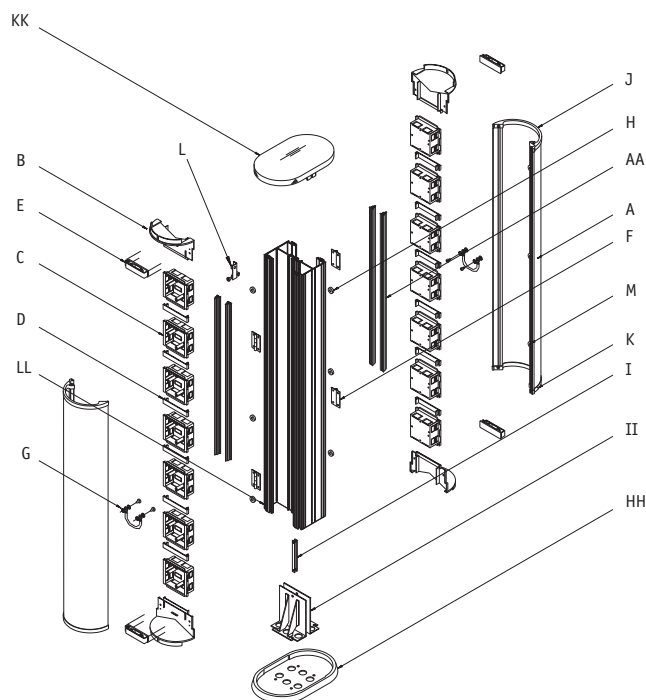
Double sided PowerPost

with 2 hinged lids and 14 ESSB1 outlets (NPPE811142)

Code	Description	Quantity
LL	NPPMB811 Square PowerPost base 811mm long	1
A	NPPHL716 Hinged lid assembly	2
J	NPPUT Hinged lid upper trim	2
K	NPPLT Hinged lid lower trim	2
KK	NPPC3 Oval Top cap	1
HH	NPPBF5 Oval base	1
B	NPPBH1 Bulkhead	4
C	ESSB1 Single gang box	14
D	ES1 Spacing cover	12
II	PPBF3 Base foot (galvanised)	2
E	NPPCC1 Cable clip	4
AA	MDFS15W632 Dividing fillet 632mm long	4
F	NPPLH1 Stainless steel hinges	4
L	PPBT1 16mm bonding terminal assembly	1
G	NPPLBS1 Hinged lid bonding strap	2
H	NPPLH1 Disc latch	6
M	NPPMC1 Magnet catch	6
I	PPSN1 Sliding nut	2

Overall height 838mm.

Full installation instructions are included within each pack.



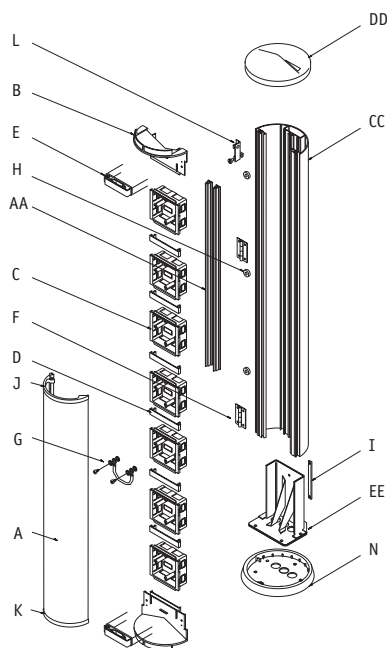
Single sided PowerPost

with 1 hinged lid and 7 ESSB1 outlets (NPPC80671)

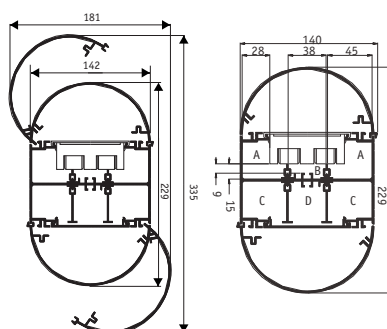
Code	Description	Quantity
CC	NPPB806 Semi-circular PowerPost base 806mm	1
A	NPPHL716 Hinged lid assembly	1
J	NPPUT Hinged lid upper trim	1
K	NPPLT Hinged lid lower trim	1
DD	NPPC2 Top cap	1
EE	NPPBF7 Circular post base foot (galvanised)	1
N	NPPBF4 Circular base foot	1
B	NPPBH1 Bulkhead	2
E	NPPCC1 Cable clip	2
D	ES1 Spacing cover	6
C	ESSB1 Single gang box	7
AA	MDFS15W632 Dividing fillet 632mm	2
H	NPPLH1 Disc latch	3
M	NPPMC1 Magnet catch	3
F	NPPH1 Stainless steel hinges	2
G	NPPLBS1 Hinged lid bonding strap	1
L	PPBT1 16mm bonding terminal assembly	1
I	PPSN1 Sliding nut	1

Overall height 838mm.

Full installation instructions are included within each pack.



Dimensions and cable capacities



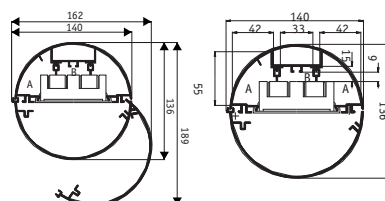
Double sided PowerPost

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.



Single sided PowerPost

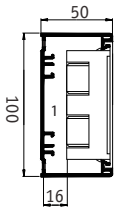
A = 1238 sq mm total area 45% space factor = 557 sq mm.

B = 505 sq mm total area 45% space factor = 227 sq mm.

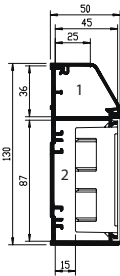
C = 1798 sq mm total area 45% space factor = 809 sq mm.

PVC-U perimeter trunking capacity guide

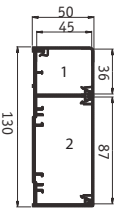
Trunking sizes up to 150mm

**Mono 10 no box**

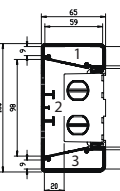
- 1 = 4141mm² total area
 1 = 1863mm² 45% space factor
with box in comp 1
 1 = 1874mm² total area
 1 = 843mm² 45% space factor

**Compact 1 no box**

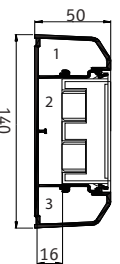
- 1 = 1280mm² total area
 1 = 576mm² 45% space factor
 2 = 3763mm² total area
 2 = 1693mm² 45% space factor
With box in comp 2
 2 = 1497mm² total area
 2 = 673mm² 45% space factor

**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 total area

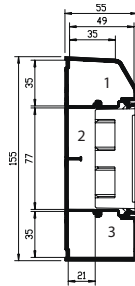
**Series R 130****with box and segregators**

- 1 & 3 = 957mm² total area
 1 & 3 = 431mm² 45% space factor
 2 = 2210mm² total area
 2 = 995mm² 45% space factor
without segregators
 1 = 4272mm² total area
 1 = 1922mm² 45% space factor

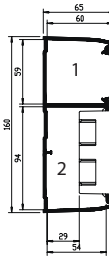
**Mono Plus 20 – no box**

- 1 & 3 = 1024mm² total area
 1 & 3 = 461mm² 45% space factor
 2 = 3451mm² total area
 2 = 533mm² 45% space factor
With box in comp 2
 2 = 1185mm² total area
 2 = 533mm² 45% total area

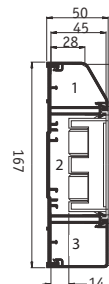
Trunking sizes from 150mm to 200mm

**Mono Plus 30 no box**

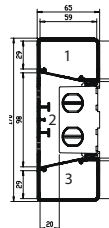
- 1 = 1450mm² total area
 1 = 652mm² 45% space factor
 2 = 3829mm² total area
 2 = 1723mm² 45% space factor
 3 = 1646mm² total area
 3 = 741mm² 45% space factor
With box in comp 2
 2 = 1563mm² total area
 2 = 703mm² 45% space factor

**Twin 165 no box**

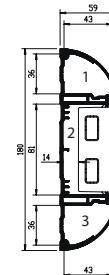
- 1 = 3272mm² total area
 1 = 1463mm² 45% space factor
 2 = 5404mm² total area
 2 = 2431mm² 45% space factor
With box in comp 2
 2 = 3100mm² total area
 2 = 1395mm² 45% space factor

**Sterling Profile 2 no box**

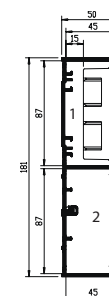
- 1 = 1197mm² total area
 1 = 538mm² 45% space factor
 2 = 3556mm² total area
 2 = 1600mm² 45% space factor
 3 = 1451mm² total area
 3 = 652mm² 45% space factor
With box in comp 2
 2 = 1279mm² total area
 2 = 575mm² 45% space factor

**Series R 170****With box and segregators**

- 1 & 3 = 2137mm² total area
 1 & 3 = 962mm² 45% space factor
 2 = 2210mm² total area
 2 = 995mm² 45% space factor
Without segregators
 1 = 6632mm² total area
 1 = 2984mm² 45% space factor

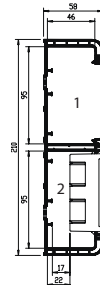
**Odyssey no box**

- 1 & 3 = 1256mm² total area
 1 & 3 = 565mm² 45% space factor
 2 = 4022mm² 45% total area
 2 = 1809mm² 45% space factor
With box in comp 2
 2 = 1230mm² total area
 2 = 553mm² 45% space factor

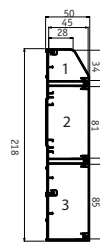
**Compact 3 – no box**

- 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

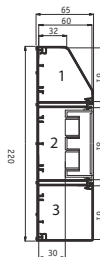
Trunking sizes over 200mm

**Twin Plus – no box**

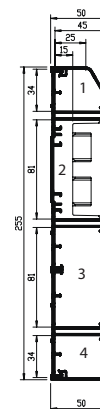
- 1 & 2 = 4755mm² total area
 1 & 2 = 2140mm² 45% space factor
With box in comps 1 or 2
 1 & 2 = 2431mm² total area
 1 & 2 = 1094mm² 45% space factor

**Sterling Profile 4 – no box**

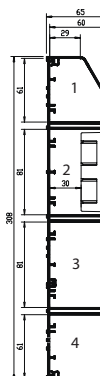
- 1 = 1197mm² total area
 1 = 538mm² 45% space factor
 2 = 3556mm² total area
 2 = 1600mm² 45% space factor
 3 = 3626mm² total area
 3 = 1631mm² 45% space factor
With box in comps 2 or 3
 2 = 1279mm² total area
 2 = 575mm² 45% space factor
 3 = 1360mm² total area
 3 = 612mm² 45% space factor

**XL 202****XL 202 – 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

**Sterling Profile 12 – no box**

- 1 = 1197mm² total area
 1 = 538mm² 45% space factor
 2 = 3556mm² total area
 2 = 1600mm² 45% space factor
 3 = 3482mm² total area
 3 = 1567mm² 45% space factor
 4 = 1451mm² total area
 4 = 652mm² 45% space factor
With box in comps 2 or 3
 2 = 1279mm² total area
 2 = 575mm² 45% space factor
 3 = 12162mm² total area
 3 = 547mm² 45% space factor

**XL 212 – 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

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	30.2
*Data cable	Ø6.0mm	36.0
*Data cable	Ø6.5mm	42.2
*Data cable	Ø7.0mm	49.03
*Data cable	Ø8.4mm	58.0

Compact trunking

Material

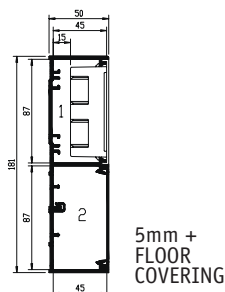
PVC-U is flame retardant and self-extinguishing. PVC-U is 100% recyclable.

Installation

Positioning

Compact 1, 2 & 3 suitable for dado. Should Compact 3 be used as skirting system, a clearance of 5mm is recommended above the floor covering to allow the profile fittings to clip over the cover.

If Compact 2 is installed close to desk/bench top – invert so small compartment is on bottom.



Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended. Fittings have a 10mm overlap on each side to allow for thermal movement of the covers.

Fitting

- The base is supplied with pre-cut elongated holes at 250mm centres.
- To fasten base, use No 8 round head screws and washers.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine-toothed panel or power jig-saw.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45 degree mitres.

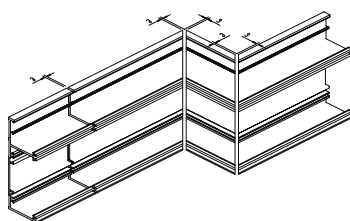
Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bends

Base joints should have a 3mm gap to allow for expansion.

- Internal, external bends and flat angles, the base must be mitred 45 degrees to ensure total enclosure of trunking, including any internal fitted segregator.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- Flat angles, tees and crossovers are also available pre-fabricated.

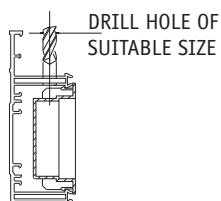


Bend radius control

The data internal and external bend radius control fittings for Compact Trunking provide a bend radius of 50mm.

Accessory boxes

- For mounting an accessory box in the alternative compartment to supply, drill the main web adjacent to the box position.
- Remove the appropriate knock out and clip the box into the trunking base.
- For boxes in the same compartment as the supply, remove the appropriate box knock-outs and clip the box into trunking base.
- When boxes are installed consecutively, a 14mm wide spacer (ES1) is required to cover the space between the boxes.
- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.
- If Compact 3 is used as a skirting system. All power accessories should be installed in the top compartment.



Covers

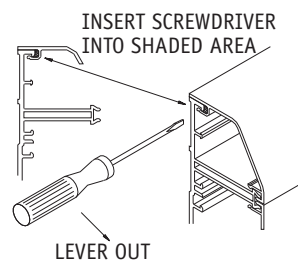
Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

Covers – fitting

Covers are clipped into place from front. If accessory boxes are installed, the ETL1 cover is butt-joined to the edge of the box. Cut edges of the cover are subsequently concealed by the accessory. For fittings, a gap of 25mm is left between the two cover ends to permit the fitting to clip to base.

Covers – removal

To remove a cover, first detach a coupler, internal or external bend component to gain access. The main cover can then be gently eased off the



base. To remove the outer cover, firstly ease from the base by inserting the blade of a terminal screwdriver between the captive legs of the cover and the base and then peel off.

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 BS7671 (1992) 50 V.A.C. – 1000 V.A.C. unless additional measures are undertaken.

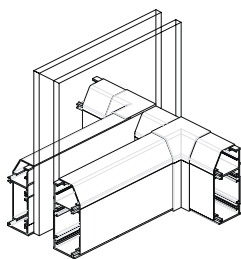
Antimicrobial

For technical details of antimicrobial Bio Compact trunking, please refer to Laboratory and Healthcare section.

Compact trunking – continued

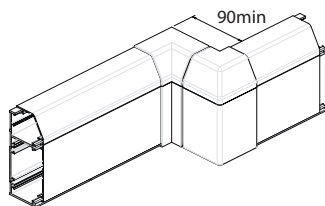
Method of continuation through a partition wall

Continue the main lateral run of base through the partition wall. Fit short lengths of cover where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an internal bend fitting.

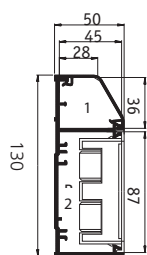


Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.

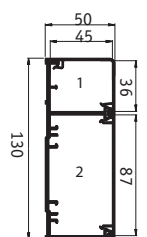


Dimensions



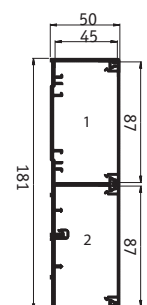
Compact 1 trunking – with box

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 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	76

PVC power cable 2.5mm² stranded copper

Compact 1	45	–	134	53
Compact 2	54	–	134	58
Compact 3	134	59	132	58

PVC power cable 4.0mm² stranded copper

Compact 1	34	–	101	40
Compact 2	44	–	101	40
Compact 3	101	40	100	38

Data cable: Ø5.5mm

Compact 1	19	–	56	22
Compact 2	22	–	56	22
Compact 3	56	22	55	21

Data cable: Ø6.0mm

Compact 1	16	–	47	18
Compact 2	19	–	47	18
Compact 3	47	18	46	17

Data cable: Ø6.5mm

Compact 1	13	–	40	15
Compact 2	16	–	40	15
Compact 3	40	15	39	14

Data cable: Ø7.0mm

Compact 1	11	–	34	13
Compact 2	14	–	34	13
Compact 3	34	13	34	12

Data cable: Ø8.4mm

Compact 1	9	–	29	11
Compact 2	11	–	29	11
Compact 3	29	11	28	10

Mono and Mono Plus trunking – PVC-U

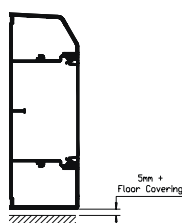
Material

PVC-U is flame retardant and self-extinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

- **Mono 10**
For dado application only.
- **Mono Plus 20 and 30**
When used as a skirting system, sufficient clearance should be allowed between the floor covering and the profile fittings that clip over the cover i.e. 5mm + floor covering is recommended.



Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended. Adequate allowance is made within the fittings for thermal movement of the covers, which have a 7mm overlap on each side.

Fitting

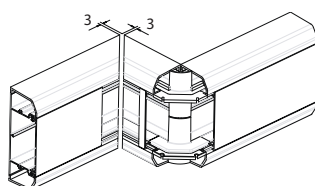
- The base is supplied with pre-cut elongated holes at 250mm centres.
- Internal couplers on base units are not required.
- To fasten base, use No 8 round head screws and washers.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine-toothed panel or power jig-saw.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45 degree mitres.
- **Mono Plus 20 and 30**
Cut the compartment segregators (x 2 provided) to lengths to fit between accessory boxes and corners. Fit into position after wiring has been completed.

Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

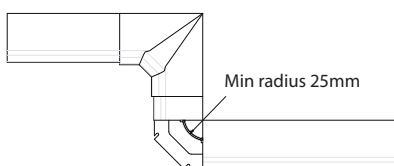
Joints and bends

- Base joints should have a 3mm gap to allow for expansion.
- External moulded fittings overlap the joints by up to 7mm to cover cutting inaccuracies.
- **Mono 10**
For external bends and flat angles, the base must be mitred 45 degrees to ensure total enclosure of trunking, including any internal fitted segregator. Tees are fabricated.
- **Mono Plus 20 and 30**
External bends should be cut square at the corner and in internal segregator inserted as shown below, to give additional retention to the clip-on fitting. Flat angles and tees are prefabricated.



Bend radius control

- **Mono 10**
Not applicable
- **Mono Plus 20 and 30**
The data bend radius control fittings for Mono Plus trunking provide a bend radius of 25mm.



Accessory boxes

- If the accessory box is to be fed from a supply in either of the outer compartments, remove the appropriate knock out (top or bottom) and clip the box into the trunking base.
- For boxes supplied from the main compartment, remove the appropriate box knock-outs and clip the box into trunking base.
- When boxes are installed consecutively, a 14mm wide spacer (ES1) is required to cover the space between the boxes.

- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.

Covers

The cover has been designed to limit unauthorised removal and to remain in position during normal conditions, irrespective of impact and minor undulations of the mounting surface.

Covers – fitting

The cover is clipped into place from the front. If accessory boxes are installed, the cover is butt-joined to the edge of the box and the cut edges of the cover is subsequently concealed by the accessory. For fittings, a gap of 25mm is left between the two cover ends to permit the fitting to clip to the base.

Covers – removal

To remove the cover, first detach a coupler, internal or external bend component to gain access. The main cover can then be gently eased off the base.

Screening

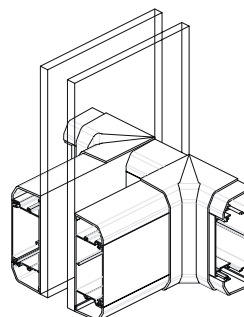
Refer to the Technical Team on 01424 856688.

Antimicrobial

For technical details of antimicrobial Mono 10 and Mono Plus 20 Bio trunking, please refer to Laboratory and Healthcare section.

Method of continuation through a partition wall

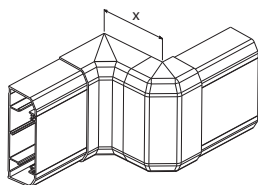
Continue the main lateral run of base through the partition wall with a short length of cover fitted where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an Internal bend. (as shown below)



Mono and Mono Plus trunking – PVC-U – continued

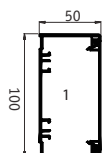
Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.

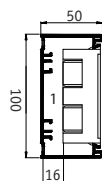


x =
100mm min (Mono 10)
105mm min (Mono Plus 20)
110mm min (Mono Plus 30)

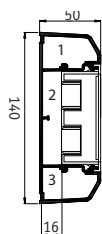
Dimensions



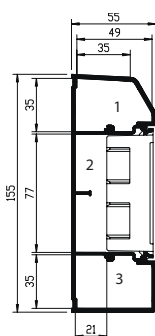
Mono 10 trunking – no box
Compartment 1 total area = 4141mm²



Mono 10 trunking – with box
Compartment 1 total area = 1874mm²



Mono Plus 20 trunking – with box
Compartment 1 total area = 1024mm²
Compartment 2 total area = 1185mm²
Compartment 3 total area = 1024mm²



Mono Plus 30 trunking – with box
Compartment 1 total area = 1450mm²
Compartment 2 total area = 1563mm²
Compartment 3 total area = 1646mm²

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	–	134	61	53	–
Mono Plus 30	75	–	158	81	86	–

PVC power cable 2.5mm² stranded copper

Mono 10	66	147	–	–	–	–
Mono 20	36	–	–	42	36	–
Mono 30	51	–	123	55	58	–

PVC power cable 4.0mm² stranded copper

Mono 10	112	50	–	–	–	–
Mono Plus 20	27	–	67	32	27	–
Mono Plus 30	39	–	79	42	44	–

Data cable: Ø5.5mm

Mono 10	61	27	–	–	–	–
Mono Plus 20	15	–	47	17	15	–
Mono Plus 30	21	–	49	23	24	–

Data cable: Ø6.5mm

Mono 10	44	19	–	–	–	–
Mono Plus 20	10	–	43	12	10	–
Mono Plus 30	15	–	45	16	17	–

Data cable: Ø7.0mm

Mono 10	38	17	–	–	–	–
Mono Plus 20	9	–	–	10	9	–
Mono Plus 30	13	–	–	14	15	–

Odyssey trunking

Material

PVC-U is flame retardant and self-extinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

For dado, horizontal or vertical installation.

Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended.

Adequate allowance is made within the fittings for thermal movement of the covers, which have a 10mm overlap on each side.

Fitting

- The base is supplied with pre-cut elongated holes at 250mm centres.
- Internal couplers on base units are not required.
- To fasten base, use No 8 round head screws and washers.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine-toothed panel or power jig-saw.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45 degree mitres.

Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the covers.

Joints and bends

All base joints should have a 3mm gap to allow for expansion.

- **Internal bends:** the two base sections should be cut square and butt joined at the corner. The internal end cap component should be fitted to the open end to maintain trunking integrity.
- **External bends:** the base must be cut square with the corner and the internal radius control segregator fitted into the two base sections. Adjustable bends: these

allow 85° to 95° to accommodate building tolerances.

- **Flat bends and tees:** have moulded and segregated base units. These are fitted into position and the trunking base then cut to butt up to mouldings.

Cutting is not critical as the external moulded clip-on fittings cover the joints and overlap the trunking covers by 10mm each side, thus covering any inaccuracies.

Bend radius control

The bend radius control fittings for Odyssey provide a bend radius of 50mm

Accessory boxes

Accessory boxes are mounted in the centre compartment. If supplied from either of the outer compartments, drill the main web adjacent to the box position. Remove the appropriate knock out and clip the box into the trunking base. For boxes in the same compartment as the supply, remove the appropriate box knock-outs and clip the box into trunking base.

- If boxes DD1510 and DD1520 are installed consecutively, a cut section of centre cover should be fitted between them.
- If DD1540 or DD1550 are installed, Adaptor DD1590 must be fitted either side to align with curved cover.
- If DD1540 or DD1550 are installed consecutively, use the spacer provided and at each end of a run use accessory adaptor DD1590 to align with curved cover.
- Part M coloured accessory boxes are available to meet the requirements of DDA regulations for Visual Impairment.

Covers

The covers have been designed to limit unauthorised removal and remain in position during normal conditions, irrespective of impact and minor undulations of the mounting surface.

Covers – fitting

Outer covers are fitted first. Locate front clip feature into the base and then roll the cover to the back of the trunking until the rear clip feature positively locates – it is possible to hear the click when this is located correctly. The centre cover is then clipped into place from the front. If accessory boxes are installed, the centre cover is butt joined beneath the moulded flange of the box (Odyssey box DD1510/DD1520) or adaptor (DD1590). The cut edges of lids are then concealed.

A gap of 15mm should be left between cover joints to permit fittings to clip to the base.

Covers – removal

To remove a cover, first detach a coupler, internal or external bend component to gain access. The main cover can then be gently eased off the base. To remove the outer cover, firstly ease from the base by inserting the blade of a terminal screwdriver between the captive legs of the cover and the base and then peel off.

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 BS7671 (1992) 50 V.A.C. – 1000 V.A.C. unless additional measures are undertaken.

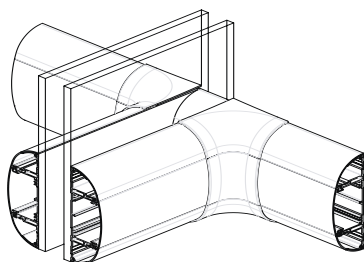
Antimicrobial

For technical details of antimicrobial Odyssey Bio trunking, please refer to Laboratory and Healthcare section.

Odyssey trunking– continued

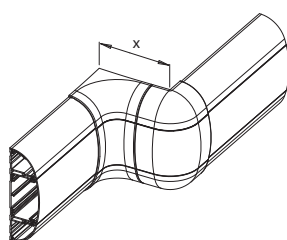
Method of continuation through a partition wall

Continue the main lateral run of base through the partition wall with short lengths of cover fitted where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an Internal bend. (as shown below)



Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.



x =
Fixed bend offset 138mm
Adjustable bend offset 165mm
Adjustable external bend, fixed internal bend offset 163mm
Adjustable internal bend, fixed external bend offset 140mm

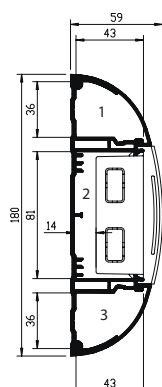
Cable capacities

- 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 1.5mm ² stranded copper	65	–	210	61	64	–
PVC power cable 2.5mm ² stranded copper	45	–	141	30	45	–
PVC power cable 4.0mm ² stranded copper	34	–	108	33	33	–
Data cable: Ø5.5mm	18	–	59	18	18	–
Data cable: Ø6.0mm	15	–	50	15	15	–
Data cable: Ø6.5mm	13	–	42	12	13	–
Data cable: Ø7.0mm	11	–	36	11	11	–
Data cable: Ø8.4mm						

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

Series R trunking

Material

PVC-U is flame retardant and self-extinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

Series R is suitable for dado. Should Series R 170 (not 130) be used as a skirting system, sufficient clearance should be allowed between the floor covering and the profile fittings that clip over the cover i.e. 5mm + floor covering is recommended.

Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended.

Adequate allowance is made within the fittings for thermal movement of the covers, which have a 10mm overlap on each side.

Fitting

- The base is supplied with pre-cut elongated holes at 250mm centres.
- Internal couplers on base units are not required.
- To fasten base, use No 8 round head screws and washers.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine-toothed panel or power jig-saw.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45 degree mitres.

Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bends

All base joints should have a 3mm gap to allow for expansion.

- **System 130 internal bends and external bends:** trunking body must be mitred at 45° to ensure total enclosure of trunking, including any internal fitted segregator.
- **System 170 internal bends and external bends:** trunking body should be cut to butt up to the prefabricated flat bends.
- **Systems 130 & 170 Flat angles and tees:** are prefabricated. Trunking bases should be cut to butt up to fittings.

Cutting is not critical as the external moulded clip-on fittings cover the joints and overlap the trunking covers by 10mm each side, thus covering any inaccuracies.

Bend radius control

Please contact the Technical Team on 01424 856688

Accessory boxes

All accessory boxes are mounted in the main, centre compartment. The appropriate knockout removal depends whether supply is to be run in the centre compartment or either/both of the outer segregated compartments. When knockouts are removed, clip the box into the trunking body. When boxes are installed consecutively, a short cut length of centre cover (14mm min.) is required to cover the space between boxes.

Covers

The cover has been designed to remain in position irrespective of impact during normal conditions, minor undulations of the mounting surface, and to limit unauthorised removal.

Covers – fitting

The single cover is clipped into place from the front. If accessory boxes are installed, the covers are butt-joined to the edge of the box (RSSB1/2). The cut edges the cover are subsequently concealed by the accessory.

Covers – removal

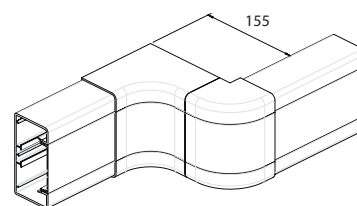
To remove the cover, first detach a coupler, internal or external bend component to gain access. The cover can then be gently eased off the base.

Method of continuation through a partition wall

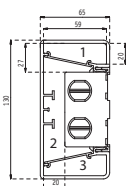
- **Systems 130 only:** continue the main lateral run of base through the partition wall with short lengths of cover fitted where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an Internal bend.

Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.

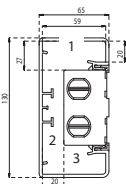


Series R– continued



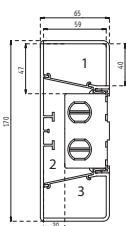
Series R 130 – with box and segregators

Compartment 1 & 3 total area = 957mm²
 Compartment 2 total area = 2210mm²
 Compartment 2 (45% space factor) = 995mm²



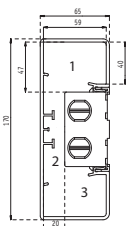
Series R 130 – with box, no segregators

Compartment 1+2+3 total area = 4272mm²
 Compartment 1+2+3 (45% space factor) = 1992mm²



Series R 170 – with box and segregators

Compartment 1 & 3 total area = 2137mm²
 Compartment 2 total area = 2210mm²
 Compartment 2 (45% space factor) = 995mm²



Series R 170 – with box, no segregators

Compartment 1+2+3 (45% space factor) = 2984mm²

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 1.5mm ² stranded copper						
Series R 130						
(without segregator)	223	–	–	–	223	–
(with segregator)	50	–	–	115	50	–
Series R 170						
(without segregator)	346	–	–	–	346	–
(with segregator)	111	–	–	115	111	–
PVC power cable 2.5mm ² stranded copper						
Series R 130						
(without segregator)	152	–	–	–	152	–
(with segregator)	34	–	–	78	34	–
Series R 170						
(without segregator)	236	–	–	–	236	–
(with segregator)	76	–	–	78	76	–
PVC power cable 4.0mm ² stranded copper						
Series R 130						
(without segregator)	115	–	–	–	115	–
(with segregator)	25	–	–	59	25	–
Series R 170						
(without segregator)	179	–	–	–	179	–
(with segregator)	57	–	–	59	57	–
Data cable: Ø5.5mm						
Series R 130						
(without segregator)	63	–	–	–	63	–
(with segregator)	14	–	–	32	14	–
Series R 170						
(without segregator)	98	–	–	–	98	–
(with segregator)	31	–	–	32	31	–
Data cable: Ø6.0mm						
Series R 130						
(without segregator)	53	–	–	–	53	–
(with segregator)	11	–	–	27	11	–
Series R 170						
(without segregator)	82	–	–	–	82	–
(with segregator)	26	–	–	27	26	–
Data cable: Ø6.5mm						
Series R 130						
(without segregator)	45	–	–	–	45	–
(with segregator)	10	–	–	23	10	–
Series R 170						
(without segregator)	70	–	–	–	70	–
(with segregator)	22	–	–	23	22	–
Data cable: Ø7.0mm						
Series R 130						
(without segregator)	39	–	–	–	39	–
(with segregator)	8	–	–	20	8	–
Series R 170						
(without segregator)	60	–	–	–	60	–
(with segregator)	19	–	–	20	19	–

Sterling profile trunking

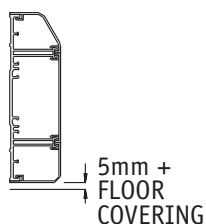
Material

PVC-U is flame retardant and self-extinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

When used as a skirting system, sufficient clearance should be allowed between the floor covering and the profile fittings that clip over the cover i.e. 5mm + floor covering is recommended.



Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended. Fittings have a 10mm overlap on each side to allow for thermal movement of the covers.

Fitting

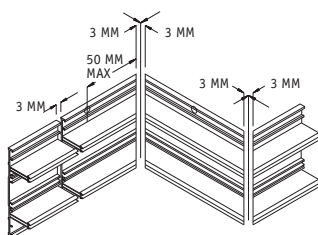
- The base is supplied with pre-cut elongated holes at 250mm centres.
- Internal couplers on base units are not required.
- To fasten base, use No 8 round head screws and washers.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine-toothed panel or power jig-saw.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45° mitres.
- To increase number of compartments to any number required, use base extension EBE1WH and extendable base EEB1.

Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bends

- Base joints should have a 3mm gap to allow for expansion.
- Internal, external bends and flat angles, the base must be mitred 45° to ensure total enclosure of trunking, including any internal fitted segregator.
- Flat angles, tees and crossovers are available prefabricated.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.

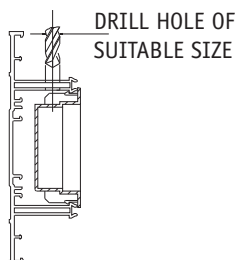


Bend radius control

The data internal and external bend radius control fittings for Sterling Profile trunking provide a bend radius of 50mm.

Accessory boxes

- For mounting an accessory box in the alternative compartment to supply, drill the main web adjacent to the box position.
- Remove the appropriate knock out and clip the box into the trunking base.
- For boxes in the same compartment as the supply, remove the appropriate box knock-outs and clip the box into trunking base.
- When boxes are installed consecutively, a 14mm wide spacer (ES1) is required to cover the space between the boxes.
- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.



Covers

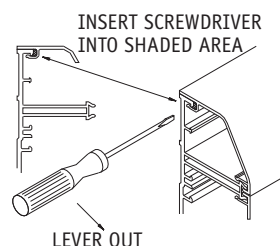
Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

Covers – fitting

Covers are clipped into place from front. If accessory boxes are installed, the ETL1 cover is butt-joined to the edge of the box. Cut edges of the cover are subsequently concealed by the accessory. For fittings, a gap of 25mm is left between the two cover ends to permit the fitting to clip to base.

Covers – removal

To remove a cover, first detach a coupler, internal or external bend component to gain access. The main cover can then be gently eased off the base. To remove the outer cover, firstly ease from the base by inserting the blade of a terminal screwdriver between the captive legs of the cover and the base and then ease away from the base.



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 BS7671 (1992) 50 V.A.C. – 1000 V.A.C. unless additional measures are undertaken.

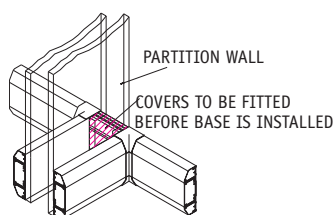
Antimicrobial

For technical details of antimicrobial Sterling Profile Bio trunking, please refer to Laboratory and Healthcare section.

Sterling Profile trunking – continued

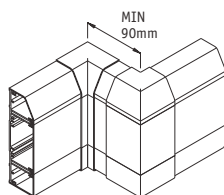
Method of continuation through a partition wall

- Continue the main lateral run of base through the partition wall.
- Fit short lengths of cover where the trunking passes through the partition.
- The partition wall trunking is then butted up to the main run and the joint covered by an internal bend fitting.

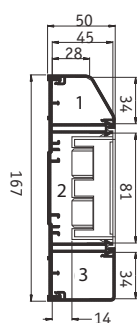


Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.



Dimensions

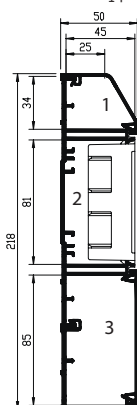


Sterling Profile 2 - with box

Compartment 1 total area = 1197mm²
Compartment 2 total area = 1279mm²
Compartment 3 total area = 1451mm²

Sterling Profile 2 - no box

Compartment 2 total area = 3556mm²

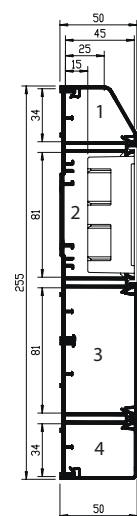


Sterling Profile 4 - with box in compartment 2

Compartment 1 total area = 1197mm²
Compartment 2 total area = 1279mm²
Compartment 3 total area = 3626mm²

No box in compartment 2

Compartment 2 total area = 3556mm²



Sterling Profile 12 - with box in compartment 2

Compartment 1 total area = 1197mm²
Compartment 2 total area = 1279mm²
Compartment 3 total area = 3482mm²
Compartment 4 total area = 1451mm²

No box in compartment 2

Compartment 2 total area = 3556mm²

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.

Sterling Profile cable capacities

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		Compartment 4
	No box	With box	No box	With box	No box	With box	No box
PVC power cable 1.5mm ² stranded copper							
Sterling Profile 1	62	–	186	66	62	–	–
Sterling Profile 2	62	–	186	66	75	–	–
Sterling Profile 3	75	–	186	66	75	–	–
Sterling Profile 4	62	–	186	66	189	–	–
Sterling Profile 5	75	–	186	66	189	–	–
Sterling Profile 6	189	–	186	66	189	–	–
Sterling Profile 11	62	–	186	66	182	–	62
Sterling Profile 12	62	–	186	66	182	–	75
PVC power cable 2.5mm ² stranded copper							
Sterling Profile 1	42	–	126	45	42	–	–
Sterling Profile 2	42	–	126	45	51	–	–
Sterling Profile 3	51	–	126	45	51	–	–
Sterling Profile 4	42	–	126	45	129	–	–
Sterling Profile 5	51	–	126	45	129	–	–
Sterling Profile 6	98	–	126	45	129	–	–
Sterling Profile 11	32	–	126	45	124	–	42
Sterling Profile 12	32	–	126	45	124	–	51
PVC power cable 4.0mm ² stranded copper							
Sterling Profile 1	32	–	96	34	32	–	–
Sterling Profile 2	32	–	96	34	39	–	–
Sterling Profile 3	39	–	96	34	39	–	–
Sterling Profile 4	32	–	96	34	98	–	–
Sterling Profile 5	39	–	96	34	98	–	–
Sterling Profile 6	98	–	96	34	98	–	–
Sterling Profile 11	32	–	96	34	94	–	32
Sterling Profile 12	32	–	96	34	94	–	39
Data cable: Ø5.5mm							
Sterling Profile 1	17	–	52	19	17	–	–
Sterling Profile 2	17	–	52	19	21	–	–
Sterling Profile 3	21	–	52	19	21	–	–
Sterling Profile 4	17	–	52	19	51	–	–
Sterling Profile 5	21	–	52	19	54	–	–
Sterling Profile 6	51	–	52	19	54	–	–
Sterling Profile 11	17	–	52	19	51	–	17
Sterling Profile 12	17	–	52	19	51	–	21
Data cable: Ø6.0mm							
Sterling Profile 1	14	–	44	15	14	–	–
Sterling Profile 2	14	–	44	15	18	–	–
Sterling Profile 3	18	–	44	15	18	–	–
Sterling Profile 4	14	–	44	15	45	–	–
Sterling Profile 5	18	–	44	15	45	–	–
Sterling Profile 6	45	–	44	15	45	–	–
Sterling Profile 11	14	–	44	15	43	–	14
Sterling Profile 12	14	–	44	15	43	–	18
Data cable: Ø6.5mm							
Sterling Profile 1	12	–	37	13	12	–	–
Sterling Profile 2	12	–	37	13	15	–	–
Sterling Profile 3	15	–	37	13	15	–	–
Sterling Profile 4	12	–	37	13	38	–	–
Sterling Profile 5	15	–	37	13	38	–	–
Sterling Profile 6	38	–	37	13	38	–	–
Sterling Profile 11	12	–	37	13	37	–	12
Sterling Profile 12	12	–	37	13	37	–	15
Data cable: Ø7.0mm							
Sterling Profile 1	10	–	32	11	10	–	–
Sterling Profile 2	10	–	32	11	13	–	–
Sterling Profile 3	13	–	32	11	13	–	–
Sterling Profile 4	10	–	32	11	33	–	–
Sterling Profile 5	13	–	32	11	33	–	–
Sterling Profile 6	33	–	32	11	33	–	–
Sterling Profile 11	10	–	38	11	31	–	10
Sterling Profile 12	10	–	38	11	31	–	13

Twin165 trunking

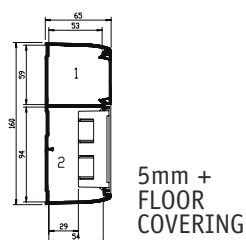
Material

PVC-U is flame retardant and self-extinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

When used as a skirting system, sufficient clearance should be allowed between the floor covering and the profile fittings that clip over the cover i.e. 5mm + floor covering is recommended.



Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended.

Adequate allowance is made within the fittings for thermal movement of the covers, which have a 7mm overlap on each side.

Fitting

- The base is supplied with pre-cut elongated holes at 250mm centres.
- Internal couplers on base units are not required.
- To fasten base, use No 8 round head screws and washers.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine-toothed panel or power jig-saw.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45° mitres.

Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bends

- Base joints should have a 3mm gap to allow for expansion.
- Internal and external bends: Base should be cut square to bend base component.
- Flat angles and tees are pre-fabricated.
- External moulded fittings overlap the joints by up to 7mm to cover cutting inaccuracies.

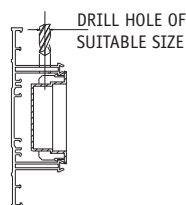
Bend radius control

The bend radius control fittings for Twin 165 provide a bend radius of 50mm.

Accessory boxes

The accessory box is mounted in the larger compartment (compartment 2). If supply is from the smaller compartment, drill the main web adjacent to the box position. Remove the appropriate knock out and clip the box into the trunking base. For boxes supplied from the main compartment, remove the appropriate box knock-outs and clip the box into trunking base. When boxes are installed consecutively, a 14mm wide spacer (ES1) is required to cover the space between the boxes.

- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.



Covers

The covers have been designed to remain in position irrespective of impact during normal conditions, minor undulations of the mounting surface, and to limit unauthorised removal.

Covers – fitting

Covers are clipped into place from the front. If accessory boxes are installed, the covers are butt-joined to the edge of the box. For the fitting of couplers, a gap of 25mm is left between the two cover ends.

Covers – removal

To remove a cover, first detach a coupler, internal or external bend component to gain access. Both covers

can then be gently eased off the base.

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 BS7671 (1992) 50 V.A.C. – 1000 V.A.C. unless additional measures are undertaken.

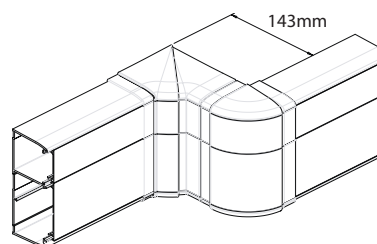
- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.

Antimicrobial

For technical details of antimicrobial Twin165 Bio trunking, please refer to Laboratory and Healthcare section.

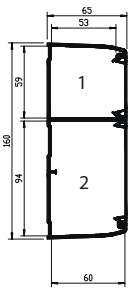
Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.

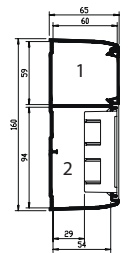


Twin165 – continued

Dimensions



Twin165 trunking - no accessory box
Compartment 1 total area = 3272mm²
Compartment 2 total area = 5404mm²



Twin165 trunking – with accessory box
Compartment 1 total area = 3272mm²
Compartment 2 total area = 3100mm²

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	
	No box	With box	No box	With box
PVC power cable 1.5mm ² stranded copper	171	–	283	162
PVC power cable 2.5mm ² stranded copper	117	–	193	111
PVC power cable 4.0mm ² stranded copper	89	–	147	84
Data cable: Ø5.5mm	49	–	81	46
Data cable: Ø6.0mm	41	–	68	39
Data cable: Ø6.5mm	35	–	58	33
Data cable: Ø7.0mm	30	–	50	28
Data cable: Ø8.4mm	25	–	41	24

Twin Plus trunking

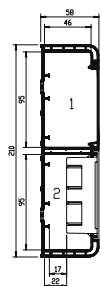
Material

PVC-U is flame retardant and self-extinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

When used as a skirting system, sufficient clearance should be allowed between the floor covering and the profile fittings that clip over the cover i.e. 5mm + floor covering is recommended.



5mm +
FLOOR
COVERING

Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended.

Adequate allowance is made within the fittings for thermal movement of the covers, which have a 10mm overlap on each side.

Fitting

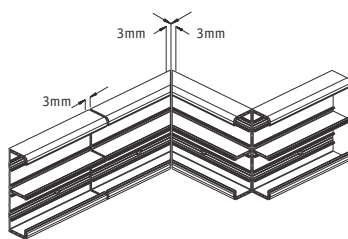
- The base is supplied with pre-cut elongated holes at 250mm centres.
- Internal couplers on base units are not required.
- To fasten base, use No 8 round head screws and washers.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine-toothed panel or power jig-saw.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45° mitres.

Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bends

- Base joints should have a 3mm gap to allow for expansion.
- External bends: base should be cut square.
- Internal bends and flat angles, the base must be mitred 45° to ensure total enclosure of trunking, including any internal fitted segregator.
- Tees and crossovers are available prefabricated.
- External moulded fittings overlap the joints by up to 7mm to cover cutting inaccuracies.



Bend radius control

The bend radius control fittings for Twin Plus provide a bend radius of 50mm

Accessory boxes

If the accessory box is to be mounted in the alternative compartment to the supply, drill the main web adjacent to the box position. Remove the appropriate knock out and clip the box into the trunking base. For boxes in the same compartment as the supply, remove the appropriate box knock-outs and clip the box into trunking base. When boxes are installed consecutively, a 14mm wide spacer (ES1) is required to cover the space between the boxes.

- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.

Covers

The covers have been designed to remain in position irrespective of impact during normal conditions, minor undulations of the mounting surface, and to limit unauthorised removal.

Covers – fitting

Covers are clipped into place from the front. If accessory boxes are installed, the covers are butt-joined to the edge of the box. For the fitting of couplers to conceal the cover joint, a gap of 30mm is left between the two cover ends.

Covers – removal

To remove a cover, first detach a coupler, internal or external bend component to gain access. Both covers can then be gently eased off the base.

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 BS7671 (1992) 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.

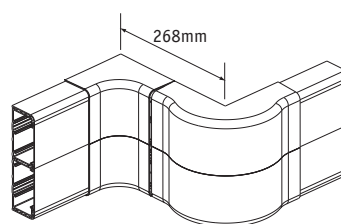
Method of continuation through a partition wall

Continue the main lateral run of base through the partition wall with short lengths of cover fitted where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an Internal bend.

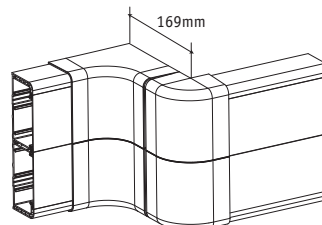
Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.

Large data capacity bend

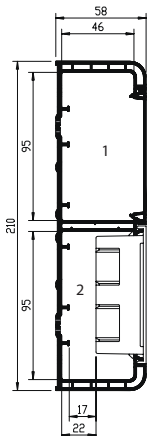


Standard bend



Twin Plus trunking – continued

Dimensions



Twin Plus trunking – with accessory box

Compartment 1 & 2 total area = 2431mm²

Twin Plus trunking – no accessory box

Compartment 1 & 2 total area = 4755mm²

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
	No box	With box
PVC power cable 1.5mm ² stranded copper	248	127
PVC power cable 2.5mm ² stranded copper	169	86
PVC power cable 4.0mm ² stranded copper	128	65
Data cable: Ø5.5mm	70	36
Data cable: Ø6.0mm	59	30
Data cable: Ø6.5mm	50	25
Data cable: Ø7.0mm	43	22
Data cable: Ø8.4mm	36	18

XL trunking

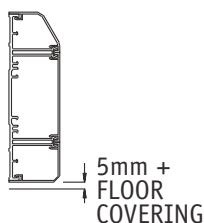
Material

PVC-U is flame retardant and self-extinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

When used as a skirting system, sufficient clearance should be allowed between the floor covering and the profile fittings that clip over the cover i.e. 5mm + floor covering is recommended.



Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended.

Adequate allowance is made within the fittings for thermal movement of the covers, which have a 10mm overlap on each side.

Fitting

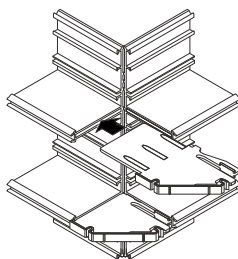
- The base is supplied with pre-cut elongated holes at 250mm centres.
- Internal couplers on base units are not required.
- To fasten base, use No 8 round head screws and washers.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine-toothed panel or power jig-saw.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45° mitres.

Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bend

- Base joints should have a 3mm gap to allow for expansion.
- External bends: base should be cut square and segregators inserted as shown in drawing below.



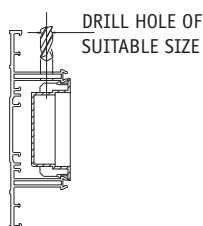
- Internal bends and flat angles, the base must be mitred 45° to ensure total enclosure of trunking, including any internal fitted segregator.
- Tees and crossovers are available prefabricated.
- External moulded fittings overlap the joints by up to 7mm to cover cutting inaccuracies.

Bend radius control

For data bend radius control fittings for XL, please contact the Technical Team on 01424 856688.

Accessory boxes

- If accessory box main compartment is supplied from an outer compartment, drill the main web adjacent to the box position.
- Remove the appropriate knock out and clip the box into the trunking base.
- For boxes in the same compartment as the supply, remove the appropriate box knock-outs and clip the box into trunking base.
- When boxes are installed consecutively, a 14mm wide spacer (ES1) is required to cover the space between the boxes.
- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.



Covers

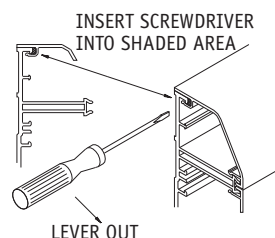
The covers have been designed to remain in position irrespective of impact during normal conditions, minor undulations of the mounting surface, and to limit unauthorised removal.

Covers – fitting

Covers are clipped into place from the front. If accessory boxes are installed, the covers are butt-joined to the edge of the box (ESSB1 and 2 only) and the cut edges of lids are subsequently concealed by the accessory. For fittings, a gap of 30mm is left between the two cover ends to permit the fitting to clip to the base.

Covers – removal

To remove a cover, first detach a coupler, internal or external bend component to gain access. The main cover can then be gently eased off the base. To remove the outer cover, firstly ease from the base by inserting the blade of a terminal screwdriver between the captive legs of the cover and the base and then peel off.



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:

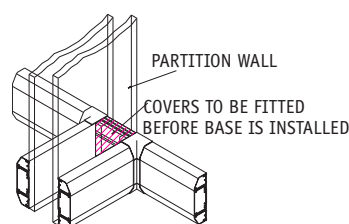
Warning: Owing to its relatively high surface resistance, CS coating SHOULD NOT be in contact with low voltage circuits BS7671 (1992) 50 V.A.C. – 1000 V.A.C. unless additional measures are undertaken.

Antimicrobial

For technical details of antimicrobial XL Bio trunking, please refer to Laboratory and Healthcare section.

Method of continuation through a partition wall

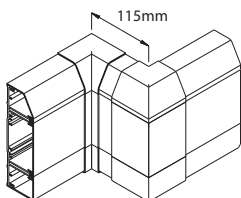
Continue the main lateral run of base through the partition wall with short lengths of cover fitted where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an internal bend. (as shown below)



XL trunking – continued

Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.



Dimensions

XL 202 Trunking - with box

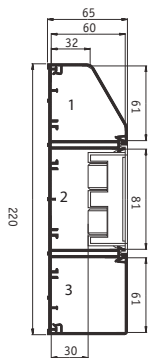
Compartment 1 total area = 2824mm²

Compartment 2 total area = 2504mm²

Compartment 3 total area = 3531mm²

XL 202 Trunking - no box

Compartment 2 total area = 4771mm²



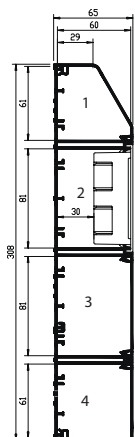
XL 212 Trunking - no box

Compartment 1 total area = 2824mm²

Compartment 2 total area = 4771mm²

Compartment 3 total area = 4732mm²

Compartment 4 total area = 3531mm²



Other Sterling Profile dimensions

Other XL trunking profiles are a combination of the ones shown on this page and can be calculated using the compartment dimensions shown here.

Cable capacities

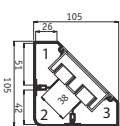
- All calculations allow for a 45% space factor.

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		Compartment 4
	No box	With box	No box	With box	No box	With box	No box
PVC power cable 1.5mm ² stranded copper							
XL 201	147	–	249	131	147	–	–
XL 202	147	–	249	131	184	–	–
XL 203	184	–	249	131	184	–	–
XL 211	147	–	249	131	247	–	147
XL 212	147	–	249	131	247	–	184
XL 213	184	–	249	131	247	–	184
PVC power cable 2.5mm ² stranded copper							
XL 201	100	–	170	89	100	–	–
XL 202	100	–	170	89	126	–	–
XL 203	126	–	170	89	–	–	–
XL 211	100	–	170	89	169	–	100
XL 212	100	–	170	89	169	–	126
XL 213	126	–	170	89	169	–	126
PVC power cable 4.0mm ² stranded copper							
XL 201	76	–	129	67	76	–	–
XL 202	76	–	129	67	95	–	–
XL 203	95	–	129	67	95	–	–
XL 211	76	–	129	67	128	–	76
XL 212	76	–	129	67	128	–	95
XL 213	95	–	129	67	128	–	95
Data cable: Ø5.5mm UTP & STP							
XL 201	42	–	71	37	42	–	–
XL 202	42	–	71	37	52	–	–
XL 203	52	–	71	37	52	–	–
XL 211	42	–	71	37	70	–	42
XL 212	42	–	71	37	70	–	52
XL 213	52	–	71	37	70	–	52
Data cable: Ø6.0mm UTP & STP							
XL 201	35	–	59	31	35	–	–
XL 202	35	–	59	31	44	–	–
XL 203	44	–	59	31	44	–	–
XL 211	35	–	59	31	59	–	35
XL 212	35	–	59	31	59	–	44
XL 213	44	–	59	31	59	–	44
Data cable: Ø6.5mm UTP & STP							
XL 201	30	–	50	26	30	–	–
XL 202	30	–	50	26	37	–	–
XL 203	37	–	50	26	37	–	–
XL 211	30	–	50	26	50	–	30
XL 212	30	–	50	26	50	–	37
XL 213	37	–	50	26	50	–	37
Data cable: Ø7.0mm UTP & STP							
XL 201	25	–	43	23	25	–	–
XL 202	25	–	43	23	32	–	–
XL 203	32	–	43	23	32	–	–
XL 211	25	–	43	23	43	–	25
XL 212	25	–	43	23	43	–	32
XL 213	32	–	43	23	43	–	32
Data cable: Ø8.38mm UTP & STP							
XL 201	21	–	37	19	21	–	–
XL 202	21	–	37	19	27	–	–
XL 203	27	–	37	19	27	–	–
XL 211	21	–	37	19	36	–	21
XL 212	21	–	37	19	36	–	27
XL 213	27	–	37	19	36	–	27

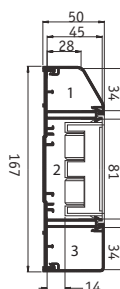
Aluminium perimeter trunking capacity guide

Trunking sizes up to 150mm

**Bench trunking – no box**

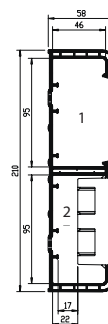
- 1 & 3 = 1285mm² total area
 1 & 3 = 578mm² 45% space factor
 2 = 2138mm² total area
 2 = 962mm² 45% space factor
With box in comp 2
 2 = 962mm²

Trunking sizes from 150mm to 200mm

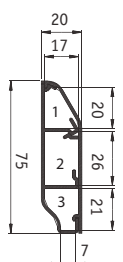
**Sterling Profile 3002 – no box**

- 1 = 1197mm² total area
 1 = 538mm² 45% space factor
 2 = 3556mm² total area
 3 = 1600mm² 45% space factor
 3 = 1451mm² total area
 3 = 652mm² 45% space factor
With box in comp 2
 2 = 1279mm² total area
 2 = 575mm² 45% space factor

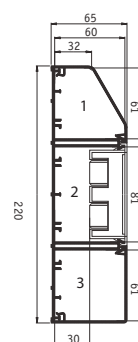
Trunking sizes over 200mm

**Twin Plus – no box**

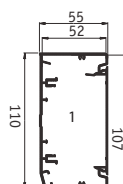
- 1 & 2 = 4755mm² total area
 1 & 2 = 2140mm² 45% space factor
With box in comps 1 or 2
 1 & 2 = 2431mm² total area
 1 & 2 = 1094mm² 45% space factor

**Sovereign Plus skirting– no box
(Box installed externally)**

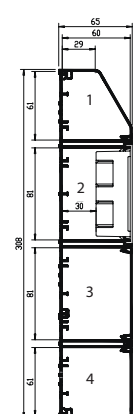
- 1 = 229mm² total area
 1 = 103mm² 45% space factor
 2 = 416mm² total area
 2 = 187mm² 45% space factor
 3 = 262mm² total area
 3 = 118mm² 45% space factor

**XL 302 – 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

**Elegance 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

**XL 312 – 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

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	30.2
*Data cable	Ø6.0mm	36.0
*Data cable	Ø6.5mm	42.2
*Data cable	Ø7.0mm	49.0
*Data cable	Ø8.4mm	58.0

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.

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

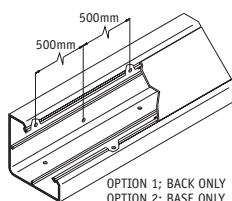
Installation

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.

Fitting

- Secure trunking base in one plane only every 500mm by drilling alternative Ø6mm holes either side of divider nib.
- Secure using No 8 round head screws and washers. Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine tooth blade (32/36tpi) or, preferably, a circular saw with a 350mm fine tungsten blade (90/108tpi). This will produce an edge requiring minimal de-burring.
- Consecutive lengths of base are aligned and butt jointed together.



Earthing

- Base, covers and metallic fittings to be cleaned of protective and powder coatings and earth bonded.
- Incoming earth connection is made using LTB1 bonding assembly installed in the earth channel of the base.
- Bonding base to base: in final ring or radial 32Amp circuits, bonding strap LBS1 can be used. Bonding cover to base use LBS2

Joints and bends

- Base joints should be butt jointed together.
- Internal and external bends are prefabricated in aluminium, aligned and butt jointed together so cutting of base and covers has to be very accurate to produce a good finish.

Bend radius control

Contact the Technical Team on 01424 856688

Accessory boxes

- Remove the appropriate box knockout that align with segregated compartment containing supply cable and clip the box into the trunking base.
- When boxes are installed consecutively, a 14mm wide spacer (ES1) is required to cover the space between the boxes.
- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.

Covers

Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

Covers – fitting

Covers are clipped into place from front. If accessory boxes are installed, the LTL1 cover is butt-jointed to the edge of the box (ESSB1/2 only). Cut edges of the cover are concealed by the accessory. Adjoining covers are butt-jointed.

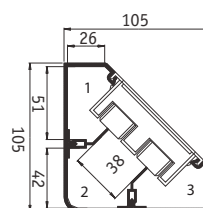
Covers – removal

To remove a cover, first detach an accessory to gain access. The main cover can then be gently eased off the base.

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

Compartment 1 (total area) = 1285mm²
Compartment 2 (total area) = 2138mm² (with box)
Compartment 3 (total area) = 1285mm²

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	67	–	–	111	67	–
PVC power cable 2.5mm ² stranded copper	45	–	–	76	45	–
PVC power cable 4.0mm ² stranded copper	34	–	–	57	34	–
Data cable: Ø5.5mm	19	–	–	31	19	–
Data cable: Ø6.0mm	16	–	–	26	16	–
Data cable: Ø6.5mm	13	–	–	22	13	–
Data cable: Ø7.0mm	11	–	–	19	11	–
Data cable: Ø8.4mm	9	–	–	16	9	–

Only for straight runs. If bends are required please contact the Technical Team on 01424 856688.

Elegance Aluminium

Material

Aluminium trunking is manufactured from high precision extruded aluminium with a powder coat finish.

White RAL 9016

Silver Grey RAL 9006

Installation

Positioning

Elegance can be installed at dado level or as a bench-mounted installation.

Fitting

- Secure trunking base every 750mm.
- Secure using No 8 round head screws and washers using the grooves in the outer compartments of the base to facilitate drilling Ø6mm holes.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine tooth blade (32/36tpi) or, preferably, a circular saw with a 350mm diameter fine tungsten blade (90/108tpi). This will produce an edge requiring minimal de-burring.
- Consecutive lengths of base are aligned and butt jointed together.

Earthing

- Base, covers and metallic fittings to be cleaned of protective and powder coatings and earth bonded.
- Incoming earth connection is made using LTB1 bonding assembly installed in the earth channel of the base.
- Bonding base to base: in final ring or radial 32Amp circuits, bonding strap LBS1 can be used.
- Bonding covers and end caps to base: use bonding strap LBS2.

Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bends

- Straight lengths should be butt jointed together.
- Internal bends, external bends, flat angles and tees are prefabricated in aluminium and butt jointed together so cutting of base and covers has to be very accurate to produce a good finish.

Bend radius control

Contact the Technical Team on 01424 856688

Accessory boxes

- For boxes mounted in alternative compartment to supply, drill main web adjacent to box position.
- Remove appropriate knockout and clip box into trunking base.
- For boxes in same compartment as supply, remove appropriate knockout and clip box into trunking base.
- When boxes are installed consecutively, a 14mm wide length of cover is required to cover the space between the boxes.
- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.

Covers

Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

Covers – fitting

Covers are clipped into place from front. If accessory boxes are installed, the LTL1 cover is butt-joined to the edge of the box (ESSB1/2 only). Cut edges of the cover are concealed by the accessory. For fittings, a gap of 4mm is left between the two cover ends to permit the fitting to clip to base.

Covers – removal

To remove a cover, first detach an accessory to gain access. The main cover can then be gently eased off the base.

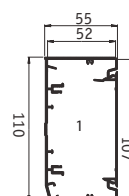
Screening

Aluminium containment will protect all internal circuits from external electromagnetic interference. For internal segregation and screening, use a screened dividing fillet.

Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is 145mm.

Dimensions



Elegance Aluminium

Compartment 1 (total area) = 5254mm² (with box)

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	
	No box	With box
PVC power cable 1.5mm ² stranded copper	274	–
PVC power cable 2.5mm ² stranded copper	187	–
PVC power cable 4.0mm ² stranded copper	142	–
Data cable: Ø5.5mm	78	–
Data cable: Ø6.0mm	65	–
Data cable: Ø6.5mm	56	–

Sovereign Plus aluminium

Material

Aluminium trunking is manufactured from high precision extruded aluminium with a powder coat finish. White RAL 9016 Silver Grey RAL 9006

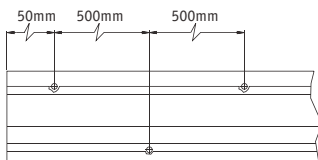
Installation

Positioning

Suitable for skirting installation. When used as a skirting system, sufficient clearance should be allowed between the floor covering and the profile fittings that clip over the cover i.e. 5mm + floor covering is recommended.

Fitting

- Secure trunking base in one plane only every 500mm by drilling alternative 6mm holes either side of divider nib.
- Secure using No 8 round head screws and washers.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine tooth blade (32/36tpi) or, preferably, a circular saw with a 350mm diameter fine tungsten blade (90/108tpi). This will produce an edge requiring minimal de-burring.
- Consecutive lengths of base are aligned and butt jointed together.



Earthing

- Base, covers and metallic fittings to be cleaned of protective and powder coatings and earth bonded using twin earth channel.
- Incoming earth connection is made using LTB1 bonding assembly.
- Bonding base to base: in final ring or radial 32Amp circuits, bonding strap LBS1 can be used.

Joints and bends

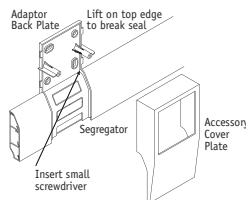
- Base joints should be butt jointed together.
- Internal and external bends are prefabricated in aluminium, aligned and butt jointed together so cutting of base and covers has to be very accurate to produce a good finish.

Bend radius control

Contact the Technical Team on 01424 856688

Accessory boxes

- Mounted on to trunking body with accessory external to the trunking.
- Remove required knockout in back segregator plate that aligns with trunking cable compartment.
- Clip to trunking base and secure to wall surface using 2 diagonally opposite fixing holes.
- Feed cables through knockout.
- After trunking cover has been fitted to base, clip front cover plate to back plate.
- Complete assembly is finally secured together when the wired accessory is screwed to accessory front plate.



Covers

Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

Covers – fitting

Covers are clipped into place from front. If accessory boxes are installed, the LTL1 cover is butt-jointed to the edge of the box mounting. Cut edges of the cover are concealed by the accessory. For fittings, a gap of 10mm is left between the two cover ends to permit the fitting to clip to base.

Covers – removal

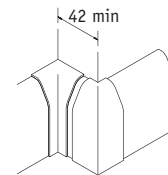
To remove a cover, first detach an accessory to gain access. The main cover can then be gently eased off the base.

Screening

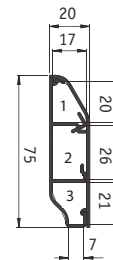
Aluminium containment protects internal circuits from external electromagnetic interference. For internal segregation and screening, use a screened dividing fillet.

Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below



Dimensions



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.

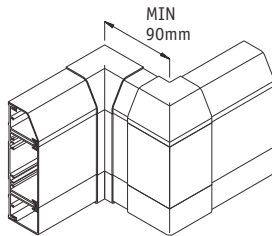
Cable capacity chart	Compartment 1	Compartment 2	Compartment 3
	No box	No box	No box
PVC power cable 1.5mm ² stranded copper	12	21	12
PVC power cable 2.5mm ² stranded copper	8	14	9
PVC power cable 4.0mm ² stranded copper	6	10	7
Data cable: Ø5.5mm	3	6	3
Data cable: Ø6.0mm	3	5	3

Technical Hotline **+44 (0) 1424 856688**

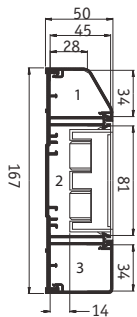
Sterling Profile aluminium – continued

Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.



Dimensions



Sterling Profile 3002 - no box

Compartment 1 (total area) = 1197mm²

Compartment 2 (total area) = 3556mm² (with box)

Compartment 3 (total area) = 1451mm²

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	62	–	186	66	62	–
Sterling Profile 2	62	–	186	66	75	–
Sterling Profile 3	75	–	186	66	75	–

PVC power cable 2.5mm² stranded copper

Sterling Profile 1	42	–	126	45	42	–
Sterling Profile 2	42	–	126	45	51	–
Sterling Profile 3	51	–	126	45	51	–

PVC power cable 4.0mm² stranded copper

Sterling Profile 1	32	–	96	34	32	–
Sterling Profile 2	32	–	96	34	39	–
Sterling Profile 3	39	–	96	34	39	–

Data cable: Ø5.5mm

Sterling Profile 1	17	–	52	19	17	–
Sterling Profile 2	17	–	52	19	21	–
Sterling Profile 3	21	–	52	19	21	–

Data cable: Ø6.0mm

Sterling Profile 1	14	–	44	15	14	–
Sterling Profile 2	14	–	44	15	18	–
Sterling Profile 3	18	–	44	15	18	–

Data cable: Ø6.5mm

Sterling Profile 1	12	–	37	13	12	–
Sterling Profile 2	12	–	37	13	15	–
Sterling Profile 3	15	–	37	13	15	–

Data cable: Ø7.0mm

Sterling Profile 1	10	–	32	11	10	–
Sterling Profile 2	10	–	32	11	13	–
Sterling Profile 3	13	–	32	11	13	–

Twin Plus aluminium

Material

Aluminium trunking is manufactured from high precision extruded aluminium with a powder coat finish. White RAL 9016
Silver Grey RAL 9006

Installation

Positioning

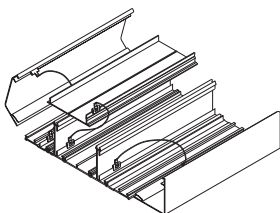
Suitable for dado and skirting installation. When used as a skirting system, sufficient clearance should be allowed between the floor covering and the profile fittings that clip over the cover i.e. 5mm + floor covering is recommended.

Fitting

- Secure trunking base every 750mm.
- Secure using No 8 round head screws and washers using the grooves in the outer compartments of the base to facilitate drilling Ø6mm holes.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine tooth blade (32/36tpi) or, preferably, a circular saw with a 350mm fine tungsten blade (90/108tpi). This will produce an edge requiring minimal de-burring.
- Consecutive lengths of base are aligned and butt jointed together.

Earthing

- Clean protective coating from base, covers and metallic fittings and then earth bond.
- Incoming earth connection is made using LTB1 bonding assembly installed in the earth channel of the base.
- Bonding base to base: in final ring or radial 32Amp circuits, bonding strap LBS1 can be used.
- Bonding covers and end caps to base: use bonding strap LBS2.

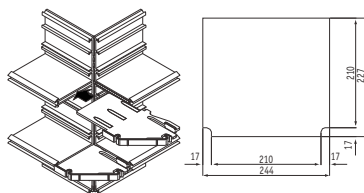


Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bends

- Moulded from colour-matching polycarbonate. External bends: base should be cut square at the corner and the internal segregator inserted into the web of each base.
- Internal bends: base must be mitred 45° to ensure total enclosure of trunking, including any internal fitted segregator.
- Flat angles, tees and crossovers are prefabricated aluminium.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.



Bend radius control

The bend radius control fittings for Twin Plus provide a bend radius of 50mm

Accessory boxes

- If the accessory box is to be mounted in the alternative compartment to the supply, drill the main web adjacent to the box position.
- Remove the appropriate knock out and clip the box into the trunking base.
- For boxes in the same compartment as the supply, remove the appropriate box knock-outs and clip the box into trunking base.
- When boxes are installed consecutively, a 14mm wide spacer (ES1) is required to cover the space between the boxes.
- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.

Covers

The covers have been designed to remain in position irrespective of impact during normal conditions, minor undulations of the mounting surface, and to limit unauthorised removal.

Covers – fitting

Covers are clipped into place from the front. If accessory boxes are installed, the covers are butt-joined to the edge of the box. For the fitting of couplers to conceal the cover joint, a gap of 25mm is left between the two cover ends.

Covers – removal

To remove a cover, first detach a coupler, internal or external bend component to gain access. Both covers can then be gently eased off the base.

Screening

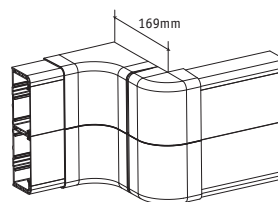
Aluminium containment will protect all internal circuits from external electromagnetic interference. For internal segregation and screening, use a screened dividing fillet.

Method of continuation through a partition wall

Continue the main lateral run of base through the partition wall with short lengths of cover fitted where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an Internal bend.

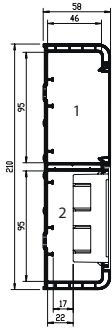
Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.



Twin Plus aluminium – continued

Dimensions



Twin Plus trunking – with accessory box

Compartment 1 (total area) = 4755mm²

Compartment 2 (total area) = 2431mm² with box

Compartment 2 (45% space factor) = 1094mm²
(compartment 1 and 2 are reversible)

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	70	36	70	36
Data cable: Ø6.0mm	59	30	59	30
Data cable: Ø6.5mm	50	25	50	25
Data cable: Ø7.0mm	43	22	43	22
Data cable: Ø8.38mm	36	18	36	18

XL trunking aluminium

Material

Aluminium trunking is manufactured from high precision extruded aluminium with a powder coat finish.

Installation

Positioning

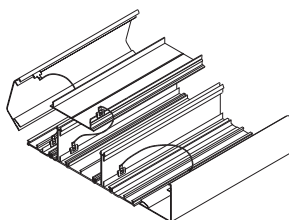
For dado and skirting installation. When used as a skirting system, sufficient clearance should be allowed between the floor covering and the profile fittings that clip over the cover i.e. 5mm + floor covering is recommended.

Fitting

- Secure trunking base every 750mm.
- Secure using No 8 round head screws and washers using the grooves in the outer compartments of the base to facilitate drilling 6mm holes.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine tooth blade (32/36tpi) or, preferably, a circular saw with a 350mm diameter fine tungsten blade (90/108tpi). This will produce an edge requiring minimal de-burring.
- Consecutive lengths of base are aligned and butt jointed together.

Earthing

- Clean protective coating from base, covers and metallic fittings and then earth bond.
- Incoming earth connection is made using LTB1 bonding assembly installed in the earth channel of the base.
- Bonding base to base: in final ring or radial 32Amp circuits, bonding strap LBS1 can be used.
- Bonding covers and end caps to base: use bonding strap LBS2.

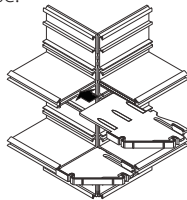


Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

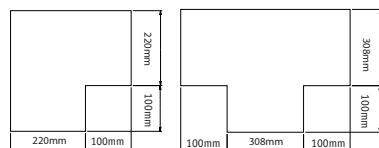
Joints and bends

- Moulded from colour-matching polycarbonate.
- External bends: base should be cut square at the corner and the internal segregator inserted into the web of each base.



- Internal bends: base must be mitred 45° to ensure total enclosure of trunking, including any internal fitted segregator.
- Flat angles, tees and crossovers are prefabricated aluminium.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.

Template dimensions for Flat angle and Tee

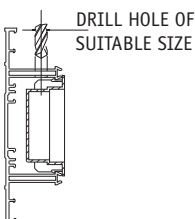


Bend radius control

For data bend radius control fittings for XL, please contact the Technical Team on 01424 856688.

Accessory boxes

- If accessory box in main compartment is supplied from an outer compartment, drill the main web adjacent to the box position.
- Remove the appropriate knock out and clip the box into the trunking base.
- For boxes in the same compartment as the supply, remove the appropriate box knock-outs and clip the box into trunking base.
- When boxes are installed consecutively, a 14mm minimum space is required to cover the space between the boxes (use PVC-U ES1WH or use section of aluminium cover)
- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.



Covers

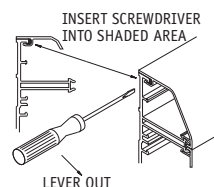
The covers have been designed to remain in position irrespective of impact during normal conditions, minor undulations of the mounting surface, and to limit unauthorised removal.

Covers – fitting

Covers are clipped into place from the front. If accessory boxes are installed, the LTL1 covers are butt-joined to the edge of the box (ESSB1 and 2 only) and the cut edges of lids are subsequently concealed by the accessory. For fittings, a gap of 30mm is left between the two cover ends to permit the fitting to clip to the base.

Covers – removal

To remove a cover, first detach a coupler, internal or external bend



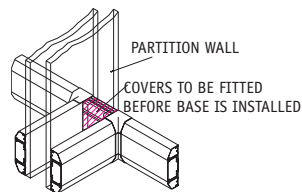
component to gain access. The main cover can then be gently eased off the base. To remove the outer cover, firstly ease from the base by inserting the blade of a terminal screwdriver between the captive legs of the cover and the base and then peel off.

Screening

Aluminium containment will protect all internal circuits from external electromagnetic interference. For internal segregation and screening, use a screened dividing fillet.

Method of continuation through a partition wall

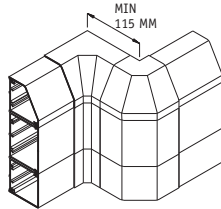
Continue the main lateral run of base through the partition wall with short lengths of cover fitted where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an Internal bend. (as shown below)



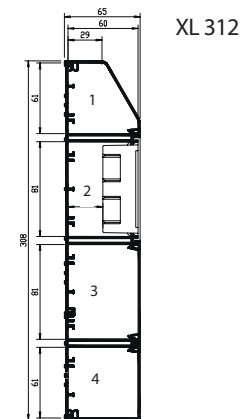
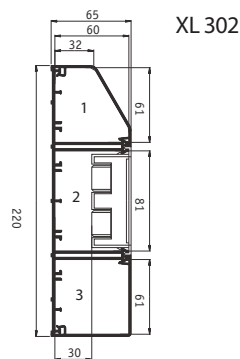
XL trunking aluminium – continued

Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.



Dimensions



XL 302 – no box

Compartment 1 (total area) = 2824mm²
 Compartment 2
 (45% space factor) = 4771mm² (with box)
 Compartment 3
 (45% space factor) = 3531mm² (with box)
 Compartment 3 = 2504mm² (with box)

XL 312 – no box

Compartment 1 (total area) = 2824mm²
 Compartment 2 (total area) = 4771mm²
 Compartment 2 = 2511mm² (with box)
 Compartment 3 (total area) = 4732mm²
 Compartment 3 = 2102mm² (with box)
 Compartment 4 (total area) = 3531mm²

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 1.5mm ² stranded copper								
XL 301	147	–	249	131	147	–	–	
XL 302	147	–	249	131	184	–	–	
XL 303	184	–	249	131	184	–	–	
XL 311	147	–	249	131	247	128	147	
XL 312	147	–	249	131	247	128	184	
XL 313	184	–	249	131	247	128	184	
PVC power cable 2.5mm ² stranded copper								
XL 301	100	–	170	89	100	–	–	
XL 302	100	–	170	89	126	–	–	
XL 303	126	–	170	89	126	–	–	
XL 311	100	–	170	89	169	88	100	
XL 312	76	–	129	89	169	88	126	
XL 313	95	–	129	89	169	88	126	
PVC power cable 4.0mm ² stranded copper								
XL 301	76	–	129	67	76	–	–	
XL 302	76	–	129	67	95	–	–	
XL 303	95	–	129	67	95	–	–	
XL 331	76	–	129	67	128	52	76	
XL 312	76	–	129	67	128	52	95	
XL 313	95	–	129	67	128	52	95	
Data cable: Ø5.5mm								
XL 301	42	–	71	37	42	–	–	
XL 302	42	–	71	37	52	–	–	
XL 303	52	–	71	37	52	–	–	
XL 311	42	–	71	37	70	36	42	
XL 312	42	–	71	37	70	36	52	
XL 313	52	–	71	37	70	36	52	
Data cable: Ø6.0mm								
XL 301	35	–	59	31	35	–	–	
XL 302	35	–	59	31	44	–	–	
XL 303	44	–	59	31	44	–	–	
XL 331	35	–	59	31	59	30	35	
XL 312	35	–	59	31	59	30	44	
XL 313	44	–	59	31	59	30	44	
Data cable: Ø6.5mm								
XL 301	30	–	50	26	30	–	–	
XL 302	30	–	50	26	37	–	–	
XL 303	37	–	50	26	37	–	–	
XL 311	30	–	50	26	50	26	30	
XL 312	30	–	50	26	50	26	37	
XL 313	37	–	50	26	50	26	37	
Data cable: Ø7.0mm								
XL 301	25	–	43	23	25	–	–	
XL 302	25	–	43	23	32	–	–	
XL 303	32	–	43	23	32	–	–	
XL 311	25	–	43	23	43	22	25	
XL 312	25	–	43	23	43	22	32	
XL 313	32	–	43	23	43	22	32	
Data cable: Ø8.4mm								
XL 301	21	–	37	19	21	–	–	
XL 302	21	–	37	19	27	–	–	
XL 303	27	–	37	19	27	–	–	
XL 311	21	–	37	19	36	19	21	
XL 312	21	–	37	19	36	19	27	
XL 313	27	–	37	19	36	19	27	

Steel trunking Series 130, Series 170 and Series 210

Material

Steel trunking is manufactured from pre-galvanised steel with a powder coat finish to RAL 9010.

Installation

Positioning

- System 130: suitable for dado installation.
- System 170: suitable for dado and skirting installation.
- System 210: suitable for dado and skirting installation.

When used as a skirting system, sufficient clearance should be allowed between the floor covering and the profile fittings that clip over the cover i.e. 5mm + floor covering is recommended.

Fitting

- Secure trunking base every 750mm.
- Secure using No 8 round head screws and washers using the grooves in the outer compartments of the base to facilitate drilling 6mm holes.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine tooth blade (32/36tpi) or, preferably, a circular saw with a 350mm fine tungsten blade (90/108tpi). This will produce an edge requiring minimal de-burring.
- Consecutive lengths of base are aligned and butt jointed together using the coupling/bonding set.

Earthing

- Trunking base, main fittings and accessories are fitted with earth connections.
- Bonding base to fittings: use coupling/bonding set or wire between fitted earth connections.
- Bonding base to cover: covers have pressed out side grippers which automatically establish earth contact when pressed into trunking base.
- Bonding base to end caps: use bonding strap LBS3.

Single lengths

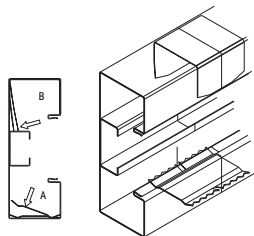
Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bends

- Base joints should be aligned and butt jointed together.
- Internal and external bends, flat angles and tees are prefabricated in steel, aligned and butt jointed to the base using coupling bonding sets.
- Clip-on external tolerance sleeve overlaps the joints to cover minor inaccuracies.

Internal coupling/bonding set

- Put coupling sleeve (B) halfway into already installed trunking base or fabricated fitting.
- Slide next section of base on to sleeve and fix base in position.
- Push serrated edge coupler component plate firmly into bottom of trunking/fitting base (A) overlapping base joint equally both side to make a good bond.
- Ensure that coupling sleeve (B) is pushed tightly into position.



Accessory boxes

Standard depth 40mm

Remove the appropriate box knockout and clip each side of the box into the trunking base.

When boxes are installed consecutively, use cover spacer UKO1085 between adjacent boxes.

Dividing fillet

Cut to length between boxes and bends. Clip into 'C' rail.



Covers

Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

Covers – fitting

Covers are clipped into place from front. If accessory boxes are installed, covers are butt-joined to the edge of the box (RSSB1/2 only). Cover lengths are determined so that ends are covered by a fitting or accessory. Every cover must have at least one pair of side grippers to ensure earth continuity i.e. cover length must be at least 50mm with side grippers in the middle. External bends and flat angles should be fitted with the correct bend/flat angle cover.

Covers – removal

To remove a cover, first detach an external joint cover or accessory to gain access. The main cover can then be gently eased off the base.

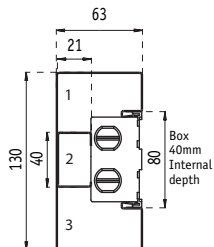
Screening

Steel containment protects internal circuits from external electromagnetic interference. For internal segregation and screening, use the steel dividing fillet 8510066.

Steel trunking Series 130, Series 170 and Series 210 – continued

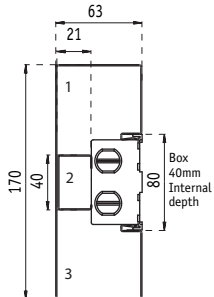
Dimensions

System 130 trunking 130 x 63mm



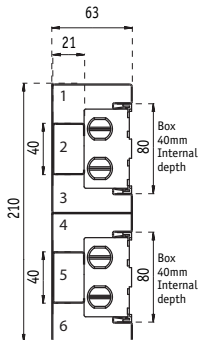
Compartments 1 & 3 = 1585mm² (each) total area
Compartments 1 & 3 = 760mm² (each) 45% space factor
Compartment 2 = 713mm² total area (with box)
Compartment 2 = 342mm² 45% space factor (with box)

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)

System 210 trunking 210 x 63mm



Compartments 1, 3, 4 & 6 = 892mm² (each) total area
Compartments 1, 3, 4 & 6 = 401mm² (each) 45% space factor
Compartments 2 & 5 = 760mm² total area (with box)
Compartments 2 & 5 = 342mm² 45% space factor (with box)

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 Systems 130 & 170 (System 210 applies to comps 1 & 4)		Compartment 2 Systems 130 & 170 (System 210 applies to comps 2 & 5)		Compartment 3 Systems 130 & 170 (System 210 applies to comps 3 & 6)	
	No box	With box	No box	With box	No box	With box

PVC power cable 1.5mm² stranded copper

System 130	82	–	–	39	82	–
System 170	147	–	–	39	147	–
System 210	46	–	313	39	46	–

PVC power cable 2.5mm² stranded copper

System 130	60	–	–	27	60	–
System 170	100	–	–	27	100	–
System 210	31	–	214	27	31	–

PVC power cable 4.0mm² stranded copper

System 130	42	–	–	20	42	–
System 170	76	–	–	20	76	–
System 210	24	–	162	20	24	–

Data cable: Ø5.5mm

System 130	23	–	–	11	23	–
System 170	41	–	–	11	41	–
System 210	13	–	89	11	13	–

Data cable: Ø6.0mm

System 130	19	–	–	9	19	–
System 170	35	–	–	9	35	–
System 210	11	–	75	9	11	–

Data cable: Ø6.5mm

System 130	16	–	–	8	16	–
System 170	29	–	–	8	29	–
System 210	9	–	63	8	9	–

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	30.2
*Data cable	Ø6.0mm	36.0
*Data cable	Ø6.5mm	42.2

*Check with manufacturer for typical values.

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.

Power, voice and data accessories

General

MT32 13Amp pre-wired sockets, Marshall-Tufflex BS 1363 power assemblies and voice and data boxes for Marshall-Tufflex PVC-U and aluminium trunking systems (except Sovereign Plus and steel systems) Trunking accessory mounting boxes.

Installation

MT32 pre-wired socket range

Fitting

- Plug in incoming pre-wired lead (from previous socket or distribution board) to appropriate connector mounted in socket assembly box.
- Connect selected pre-wired lead to outgoing connector mounted on opposite side of socket assembly box.
- Clip complete assembly into trunking compartment.
- When trunking cover is fitted, it should be slid between back box frame and the loosened accessory face plate.
- Front plate is then fully tightened down to clamp accessory in place.
- For pre-made close coupled assemblies, use lid spacer (ES1WH) between boxes.

MT32 system with non-Marshall-Tufflex socket assemblies

Fitting

- For non-Marshall-Tufflex accessories, use pre-assembled outlet box unit.
- Connect cable tails to accessory in accordance with wiring regulations and fit accessory to back box.
- Connect pre-wired incoming and outgoing leads and fit to trunking (as above).
- For close coupled assemblies, use lid spacer (ES1WH) between boxes.

Marshall-Tufflex

BS 1363 power assemblies (sockets, switches, spur units)

Fitting

- Remove front cover from assembly.
 - Front fix accessories: remove the two securing screws
 - Flush finish accessories: unclip from back box.
- Remove appropriate knockout/s for wiring.
- Wire according to wiring regulations.
- Re-assemble accessory and re-fit face plate.
- Clip complete assembly into trunking

compartment.

- For close coupled assemblies, use lid spacer (ES1WH) between boxes.

Voice and data outlet modules (punched 6c 22 x 37mm apertures to accept appropriate voice or data outlets)

Fitting

- Remove front cover from assembly.
 - Front fix accessories: remove the two securing screws.
 - Flush finish accessories: unclip from back box.
- Fit appropriate voice or data outlets.
- Wire according to manufacturer's instructions.
- Re-fit face plate.
- Clip complete assembly into trunking compartment.
- For close coupled assemblies, use lid spacer (ES1WH) between boxes.

Trunking accessory boxes for mounting standard

BS1363 wiring accessories and Data plates

Standard boxes

- 1 gang fixing centres: 60.3mm
- 2 gang fixing centres: 120.6mm
- Depth: 30mm

Fitting

- Remove appropriate knockouts.
- Feed cables through knockout.
- Wire to accessory in accordance to wiring regulations and manufacturer's instructions.
- Screw accessory to box.
- Clip complete assembly into trunking compartment.

Adjustable boxes – two part

- 1 gang fixing centres: 60.3mm
- 2 gang fixing centres: 120.6mm
- Depth: 32 - 50mm

Fitting

- Remove appropriate knockouts.
- Feed cables through knockout.
- Wire to accessory in accordance to wiring regulations and manufacturer's instructions.
- Screw accessory to box front frame.
- Press (ratchet) both components together until required final box depth is reached.
- Clip complete assembly into trunking compartment.

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.

Angled cableway

Material

PVC-U is flame retardant and self-extinguishing. It provides a 100% recyclable material with good sustainability.

Installation

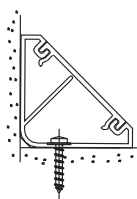
Positioning

For horizontal and vertical corner mounting.

Fitting

- Base of trunking to be butt joined together.
- Secure trunking base every 500mm by drilling oversize holes and fasten using round head screws and washers.
- Accessory boxes straddle the trunking base and are secured to the surface by using two diagonally opposite fixing points.
- **2 compartment version:** for horizontal runs install base with smaller compartment to the top to align with fabricated fittings.

Joints and bends



- Internal and external bends and angled tees are fabricated.
- Butt join trunking base to fabricated fitting.
- Covers of fittings extend over the base to assist alignment with the trunking.
- End caps with clips ensure security of trunking.

Covers

Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

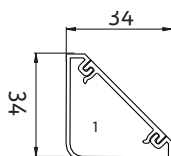
Covers – fitting

Covers are clipped into place from front. To remove a cover, first remove a fitting to gain access. Insert blade of terminal screwdriver between captive legs of cover and base and gently ease off.

Accessories

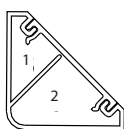
- Accessory boxes can be fitted in any position along the trunking installation.
- Depending upon the box selected, the trunking can butt up to the accessory box or continue through it.
- Segregated accessory boxes should be used with the 2 compartment trunking.

Dimensions



Angled cableway – 1 compartment

1 = 515mm² total area
1 = 231mm² 45% space factor



Angled cableway – 2 compartment

1 = 162mm² total area
1 = 73mm² 45% space factor
2 = 334mm² total area
2 = 150mm² 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	Compartment 2
		No box	No box
PVC power cable 1.5mm ² stranded copper	8.6		
Angled cableway 1 comp		26	–
Angled cableway 2 comp		8	17
PVC power cable 2.5mm ² stranded copper	12.6		
Angled cableway 1 comp		18	–
Angled cableway 2 comp		5	11
PVC power cable 4.0mm ² stranded copper	16.6		
Angled cableway 1 comp		13	–
Angled cableway 2 comp		4	8
Data cable: Ø5.5mm	30.2		
Angled cableway 1 comp		7	–
Angled cableway 2 comp		2	4
Data cable: Ø6.0mm	36		
Angled cableway 1 comp		6	–
Angled cableway 2 comp		2	3

Bench trunking

Material

PVC-U is flame retardant and self-extinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

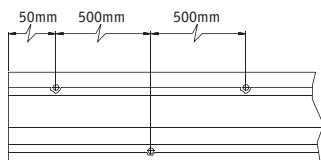
If used as a skirting system, a clearance of 5mm is recommended above the floor covering to allow the profile fittings to clip over the cover. Bench and desk installations: a single run can be fitted to rear of furniture or, if run down centre line, two units can be joined back to back presenting accessories on both sides.

Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended. Fittings allow for thermal expansion of the covers.

Fitting

- Secure trunking base in one plane only every 500mm by drilling alternative 6mm holes either side of divider nib.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To provide cable segregation, dividing fillets are snapped on to internal nibs in base.
- To cut the trunking, use a fine-toothed panel or power jig-saw.
- External profile fittings overlap joints by up to 10mm to cover cutting inaccuracies.
- Accepts Marshall-Tufflex and standard UK wiring and data accessories.



Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bends

- Base joints should have a 3mm gap to allow for expansion.
- Internal and external bends are prefabricated.
- External moulded fittings overlap the joints to cover cutting inaccuracies.
- Couplers are required to align and join bend assemblies to trunking.
- Secure end caps using solvent adhesive MSC3.

Accessory boxes

- Remove the appropriate knock out that aligns with segregated compartment containing supply cable and clip the box into the trunking base.
- When boxes are installed consecutively, a 14mm wide spacer (ES1) is required to cover the space between the boxes.
- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.

Covers

Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

Covers – fitting

Covers are clipped into place from front. If accessory boxes are installed, the cover is butt-joined to the edge of the box. Cut edges of the cover are concealed by the accessory. For couplers, a gap of 25mm is left between the two cover ends to permit the fitting to clip to base.

Covers – removal

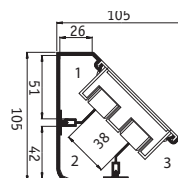
To remove a cover, first detach a coupler to gain access. The cover can then be gently eased off the base.

Antimicrobial

For technical details of antimicrobial Bio Bench trunking, please refer to Laboratory and Healthcare section.

Dimensions

Bench trunking – with box



Compartment 1 & 3 = 1285mm² total area
Compartment 1 & 3 = 578mm² 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	67	–	–	111	67	–
PVC power cable 2.5mm ² stranded copper	45	–	–	76	45	–
PVC power cable 4.0mm ² stranded copper	34	–	–	57	34	–
Data cable: Ø5.5mm	19	–	–	31	19	–
Data cable: Ø6.0mm	16	–	–	26	16	–
*Data cable: Ø6.5mm	13	–	–	22	13	–
*Data cable: Ø7.0mm	11	–	–	19	11	–
*Data cable: Ø8.38mm	9	–	–	16	9	–

*Only for straight runs. If bends are required please contact the Technical Team on 01424 856688.

Cornice trunking

Material

PVC-U is flame retardant and self-extinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

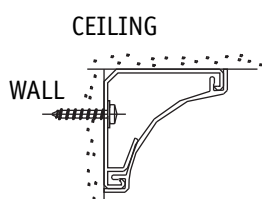
For surface wiring around ceilings.

Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended. Fittings allow for thermal expansion of the covers.

Fitting

- Secure trunking base in one plane every 500mm by drilling 6mm holes in the wall side of the trunking and use round head screws and washers.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine-toothed panel or power jig-saw.
- External profile fittings overlap joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45° mitres.



Covers – fitting

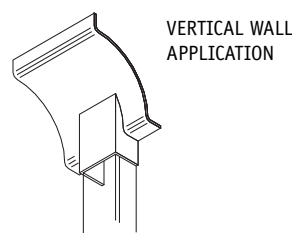
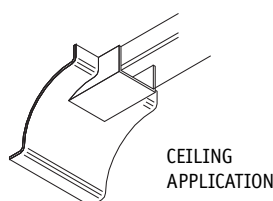
Covers are clipped into place from front. For external moulded fittings, a gap of 25mm is left between the two cover ends to permit the fitting to clip to base.

Covers – removal

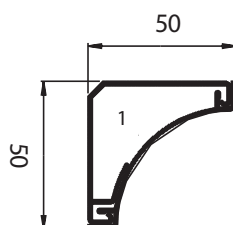
To remove a cover, first remove a fitting to gain access. Insert blade of terminal screwdriver between captive legs of cover and base and gently ease off.

Accessories

Accessories are serviced through a spur using a mini trunking adaptor and mini trunking across the ceiling to a pendant drop or down the wall to an appropriate accessory box.



Dimensions



1 = 837mm² total area
1 = 376mm² 45% space factor

Joints and bends

- Base joints should have a 3mm gap to allow for expansion.
- Base must be mitred 45° to ensure total closure of trunking.
- End caps with clips ensure security of trunking.

Covers

Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

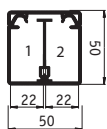
Cable capacities

- 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.

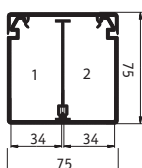
Cable capacity chart	Cable factor	Compartment 1
PVC power cable 1.5mm ² stranded copper	8.6	43
PVC power cable 2.5mm ² stranded copper	12.6	29
PVC power cable 4.0mm ² stranded copper	16.6	22
Data cable: Ø5.5mm	30.2	12
Data cable: Ø6.0mm	36	10

Maxi and Sceptre trunking



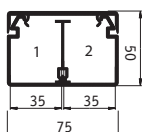
Maxi MTRS50

Total = 1979mm² total area
 Total = 890mm² 45% space factor
 1 & 2 = 911mm² total area
 1 & 2 = 410mm² 45% space factor



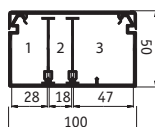
Maxi MTRS75

Total = 4709mm² total area
 Total = 2119mm² 45% space factor
 1 & 2 = 2196mm² total area
 1 & 2 = 988mm² 45% space factor



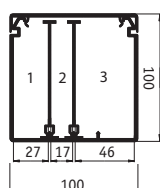
Maxi MTRS75/50

Total = 3032mm² total area
 Total = 1365mm² 45% space factor
 1 & 2 = 1347mm² total area
 1 & 2 = 606mm² 45% space factor



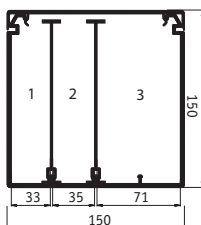
Maxi MTRS100/50

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



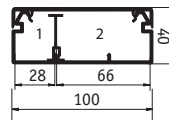
Maxi MTRS100

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



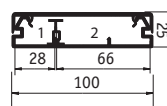
Maxi MTRS150

Total = 20193mm² total area
 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



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



Sceptre DTR2

Total = 1731mm² total area
 Total = 779mm² 45% space factor
 1 = 435mm² total area
 1 = 196mm² 45% space factor
 2 = 1197mm² total area
 2 = 538mm² 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	30.2
*Data cable	Ø6.0mm	36.0
*Data cable	Ø6.5mm	42.2
*Data cable	Ø7.0mm	49.0
*Data cable	Ø8.4mm	58.0

*Check with manufacturer for typical values

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, MTRS100/50 and DTR1, reduce the area by 2600mm².

Maxi and Sceptre trunking – continued

Material

PVC-U is flame retardant and self-extinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

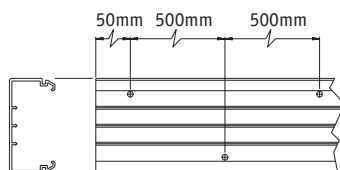
Feeder or distribution trunking.

Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended. Fittings allow for thermal expansion of the covers.

Fitting

- Secure trunking base in one plane only every 500mm by drilling alternate 6mm holes.
- Use roundhead screws.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To provide cable segregation, dividing fillets are snapped on to internal ribs in base.
- To cut the trunking, use a fine-toothed panel or power jig-saw.
- External profile fittings overlap joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45° mitres.
- Maxi only:** trunking lengths are connected using internal couplers as follows:
 - Cement one end of the internal coupler to one base using adhesive solvent MSC3. Leave other end of coupler free in adjoining base to facilitate thermal movement.

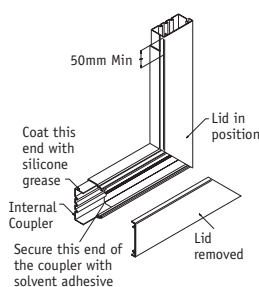


Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bends

- Clip-on fittings and 2-part moulded flat angle: base must be mitred at 45° to ensure total enclosure of trunking, including any internal fitted segregator.
- Fabricated fittings: a 3mm gap between trunking base and bend or flat angle is recommended.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- Maxi fabricated fittings are supplied with internal couplers (see Fittings)
- Secure end caps using solvent adhesive MSC3.



Accessories

- Sceptre DTR1, Maxi MTRS100/50 and MTRS100:** accessory boxes and plates can be used.
- Remove appropriate knockout and clip box into base.
- Sceptre DTR2:** only accessory plates can be used.
- When boxes or plates are installed consecutively, fit a 25mm cover spacer (MTRS100LID25WH) between the accessories to conceal space between the boxes.

Covers

Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

Covers – fitting

Covers are clipped into place from front. If accessory boxes are installed, the cover is butt-joined to the edge of the box. Cut edges of the cover are concealed by the accessory. For external fitting couplers, the following gaps should be left between the two cover ends to permit the fitting to clip to base:

DTR2	20mm
MTRS50	20mm
MTRS75	20mm
MTRS75/50	20mm
MTRS100/50	20mm
MTRS100	30mm

DTR1: DTR1 couplers are held in place by the two covers. To install, slide coupler up against first installed cover. Fit adjoining cover and slide up to coupler, ensuring the coupler moulding extends over the two covers.

Covers removal

To remove a cover, first detach a coupler or internal/external bend to gain access. The main cover can then be gently eased off the base.

Antimicrobial

For technical details of antimicrobial Bio maxi trunking, please refer to Laboratory and Healthcare section.

Maxi and Sceptre trunking – continued

Maxi trunking Cable capacity chart	Compartment 1	Compartment 2	Compartment 3
	No box	No box	No box
PVC power cable 1.5mm ² stranded copper			
MTRS50	47	47	–
MTRS75	114	114	–
MTRS75/50	70	70	–
MTRS100/50	55	34	95
MTRS100	124	76	213
MTRS150	230	247	496
PVC power cable 2.5mm ² stranded copper			
MTRS50	32	32	–
MTRS75	78	78	–
MTRS75/50	48	48	–
MTRS100/50	37	23	65
MTRS100	84	52	145
MTRS150	157	168	338
PVC power cable 4.0mm ² stranded copper			
MTRS50	24	24	–
MTRS75	60	60	–
MTRS75/50	36	36	–
MTRS100/50	28	17	49
MTRS100	64	39	110
MTRS150	119	128	257
Data cable: Ø5.5mm			
MTRS50	13	13	–
MTRS75	32	32	–
MTRS75/50	20	20	–
MTRS100/50	15	9	27
MTRS100	35	21	60
MTRS150	65	70	141
Data cable: Ø6.0mm			
MTRS50	11	11	–
MTRS75	27	27	–
MTRS75/50	16	16	–
MTRS100/50	13	8	22
MTRS100	29	18	50
MTRS150	55	59	118
Data cable: Ø6.5mm			
MTRS50	9	9	–
MTRS75	23	23	–
MTRS75/50	14	14	–
MTRS100/50	11	7	19
MTRS100	25	15	43
MTRS150	46	50	101
Data cable: Ø7.0mm			
MTRS50	8	8	–
MTRS75	20	20	–
MTRS75/50	12	12	–
MTRS100/50	9	6	16
MTRS100	21	13	37
MTRS150	40	43	87
Data cable: Ø3.38mm			
MTRS50	7	7	–
MTRS75	17	17	–
MTRS75/50	10	10	–
MTRS100/50	8	5	14
MTRS100	18	11	31
MTRS150	34	36	73

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	Compartment 1	Compartment 2
	No box	No box
PVC power cable 1.5mm ² stranded copper		
DTR1	42	104
DTR2	22	62
PVC power cable 2.5mm ² stranded copper		
DTR1	29	71
DTR2	15	42
PVC power cable 4.0mm ² stranded copper		
DTR1	22	54
DTR2	11	32
Data cable: Ø5.5mm		
DTR1	12	29
DTR2	6	17
Data cable: Ø6.0mm		
DTR1	10	25
DTR2	5	14

Mini trunking

Material

PVC-U is flame retardant and self-extinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

As feeder trunking.

Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended. Fittings allow for thermal expansion of the covers.

Fitting

- **Mini trunking**
- Secure trunking base at least every 375mm by drilling 6mm holes.
- Fasten using roundhead screws.
- **Self-fixing mini trunking**
- Remove protective film exposing 100-150mm of adhesive foam.
- Line up accurately and press firmly into position.
- Repeat until base is installed.
- For long term performance we recommend additional securing with screws and washers.

Note: the bond created by the tape can be very strong. Maximum adhesion occurs after 24 hours. Ensure surface is dust-free, dry, clean and flat. Uneven surface contact will reduce bonding performance. Installation in cold conditions below +5°C may affect adhesion.

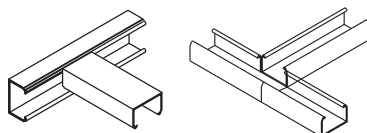
Mini and Mini SF trunking

- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine-toothed panel or power jig-saw.
- External profile fittings overlap joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45° mitres.
- End caps are secured using adhesive solvent MSC3.

Joints and bends

- All fittings incorporate clip-on design.
- 3mm gap between trunking base and bend or flat angle is recommended.

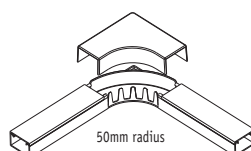
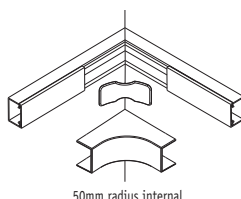
- For internal bends and flat angles, bases should be mitred 45°.
- For external bends, bases should be cut square to the corner.
- For tees, bases should be cut square and butt up to each other.



- External clip on fittings overlap trunking base by up to 10mm to cover cutting inaccuracies.
- Secure end caps using solvent adhesive MSC3.

Bend radius control – MMT4 only

- For internal bends, base should be mitred at 45°
- For external bends, base should be cut square with the corner and the radius control fitted.
- For flat angles and tees, allowance should be made when cutting base, for moulded components.



Accessory boxes

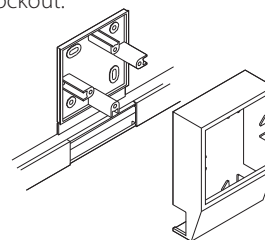
- Select appropriate surface box.
- Remove required knockout.
- Clean burrs from around aperture.
- Snap mini adaptor into position on box and place in position.
- Ensure trunking seats securely into adaptor.
- Secure box using diagonally opposite fixing holes.

Shrouded entry boxes

- For use with MMT2 or MMT3 only.
- Fit back plate in position, secure using diagonally opposite fixing holes.
- Run mini base up to back plate (for terminal accessory) or continue through.
- Remove required knockout from outer cover to fit mini trunking and fit over base plate. Install wiring leaving sufficient to wire accessory.
- Complete assembly is finally secured

together when the wired accessory is screwed to accessory front plate.

- Fit mini trunking cover to base, ensuring cover extends into knockout.



Covers

Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

Covers – fitting

Covers are clipped into place from front.

Covers – removal

To remove a cover, first detach a coupler or internal/external bend to gain access. The cover can then be gently eased off the base.

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
Stranded PVC power	6.0mm ²	21.2
*Data cable	Ø5.5mm	30.2
*Data cable	Ø6.0mm	36.0

Mini trunking	Size mm	45% capacity
MMT100	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
MMT7	75 x 16	397mm ²

Soverign Plus trunking

Material

PVC-U is flame retardant and self-extinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

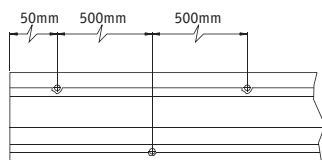
Suitable for skirting and architrave installation. When used as a skirting system, sufficient clearance should be allowed between the floor covering and the profile fittings that clip over the cover i.e. 5mm + floor covering is recommended.

Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended. Fittings allow for thermal expansion of the covers.

Fitting

- Secure base every 500mm by drilling alternate 6mm in the two outer slots provided.
- Secure using No 8 round head screws and washers.
- Avoid over-tightening to permit thermal movement. Internal couplers on base units not required.
- To cut the trunking, use a fine-toothed panel or power jig-saw.
- External profile fittings overlap joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45° mitres.
- For segregation, use the cable retainers to retain cables in correct compartments.



Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bends

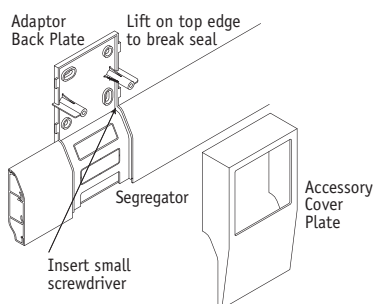
- Base joints should have a 3mm gap to allow for expansion.
- Mitre bases for internal bends, external bends and flat angles at 45° to ensure total enclosure of trunking.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- Trunking cover holds external moulded fittings in place when they are clipped on to base.

Bend radius control

Not available.

Accessory boxes

- Mounted on to trunking body with accessory external to the trunking.
- Remove required knockout in back segregator plate that aligns with trunking cable compartment.
- Clip to trunking base and secure to wall surface using 2 diagonally opposite fixing holes.
- Feed cables through knockout.
- After trunking cover has been fitted to base, clip front cover plate to back plate.
- Complete assembly is finally secured together when the wired accessory is screwed to accessory front plate.



Covers

Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

Covers – fitting

Covers are clipped into place from front. If accessory boxes are installed, covers are butt-joined to the edge of the box assembly. Cut edges of the cover are concealed by the accessory. For fittings, a gap of 4mm is left between the two cover ends to permit the fitting to clip to base.

Covers – removal

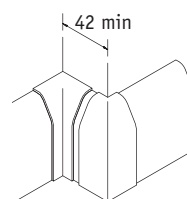
To remove a cover, isolate circuit and detach an accessory and front mounting component. Insert blade of screwdriver between captive legs of cover and gently peel off.

Screening

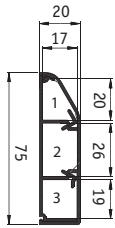
Not available.

Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below:

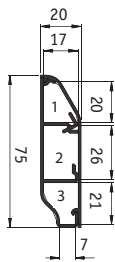


Dimensions



Sovereign Plus architrave

- 1 = 246mm² total area
- 1 = 110mm² 45% space factor
- 2 = 405mm² total area
- 2 = 182mm² 45% space factor
- 3 = 322mm² total area
- 3 = 144mm² 45% space factor



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
	No box	No box	No box

PVC power cable 1.5mm² stranded copper

Sovereign Plus architrave	12	21	16
Sovereign Plus skirting	12	21	12

PVC power cable 2.5mm² stranded copper

Sovereign Plus architrave	8	14	11
Sovereign Plus skirting	8	14	9

PVC power cable 4.0mm² stranded copper

Sovereign Plus architrave	6	10	8
Sovereign Plus skirting	6	10	7

Data cable: Ø5.5mm

Sovereign Plus architrave	3	6	4
Sovereign Plus skirting	3	6	3

Data cable: Ø6.0mm

Sovereign Plus architrave	3	5	4
Sovereign Plus skirting	3	5	3

PVC-U Conduit

Material

PVC-U is flame retardant and self-extinguishing. It provides a 100% recyclable material with good sustainability.

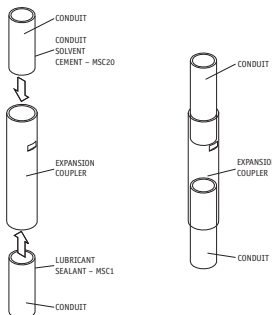
Installation

Fitting

- Secure horizontal runs of conduit at a maximum distance of 0.9m.
- Secure vertical runs of conduit at a maximum of 1.2m.
- In areas of high ambient temperature or where rapid changes in temperature are likely, these distances should be reduced.
- Where there are fittings or directional changes, the conduit should be secured approximately 150mm either side to maintain support.
- Avoid over-tightening to permit thermal movement.

Joints and couplers

- To accommodate thermal movement on surface installations, it is recommended that expansion couplers be used at a maximum distance of 6m intervals.
- In areas of high ambient temperature or where rapid changes in temperature are likely, this distance should be reduced.
- To install an expansion coupler, coat the inside of the short side with solvent cement (MSC20) and push firmly over the conduit down to the stop point.
- Slide the next length of conduit into the long side of the coupler until mid-way to the stop point. **DO NOT GLUE INTO PLACE.** This will permit expansion or contraction of the conduit, providing it is free to move in the saddles.



Bends

Care should be taken not to make too tight a bend and attention is drawn to BS 7671:2001 (Wiring Regulations) 522-08-03. The radius of every bend in a wiring system shall be such that conductors and cables shall not suffer damage.

Cold bending 20-25mm conduit

Cold bending may be carried out on all conduit sizes up to 25mm in diameter using the correct size and gauge of bending spring.

- Heavy gauge spring is colour-banded green at the tip.
- Light gauge spring is colour-banded white at the tip. Springs are not interchangeable.
- Make sure springs are not damaged in any way as this can fracture or kink the conduit making removal of the spring difficult.
- In cold weather, warm the conduit by rubbing with a rag before bending.

To bend the conduit:

- Insert the spring to the desired position, grip the conduit on either side of bend and bring slowly together to form the bend.
- Make the bend more acute than necessary to allow for PVC-U to 'recover' after bending.
- To remove the spring, twist anti-clockwise (to reduce its diameter) whilst turning the conduit clockwise and gently pulling the conduit and the spring apart.
- If spring fails to release, do not pull too hard or damage to the spring may occur.
- Repeat the removal procedure until they come apart.
- The conduit should then be fastened into position to prevent further 'recovery' of the bend.

Hot bending

Hot bending should be carried out on all conduit sizes over 25mm in diameter using the correct size and gauge of bending spring.

To bend the conduit:

- Insert the spring to the desired position as described in 'cold bending', gently heating conduit with a hot air torch, hot water or by other suitable means.
- Avoid direct application of flame to the conduit. When the conduit is in a pliable state, slowly bend around a suitable former, holding in position for about 1 minute until set.
- Remove the spring, twist anti-clockwise (to reduce its diameter)

whilst turning the conduit clockwise and gently pulling the conduit and the spring apart.

- If the conduit is bent too fast or, in the case of light gauge conduit, across the knee, there is a risk of damage to conduit and spring. Once the bend has been made, it should not be forced backwards but allowed to 'recover' naturally.

Earthing

The properties of PVC-U make it an all insulated system and the use of a separate earth cable is essential.

Joint sealants

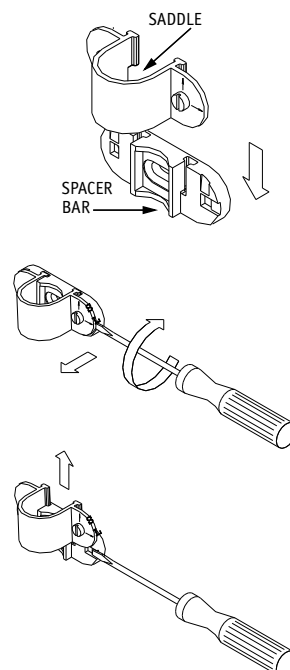
- Solvent cement MSC20: a slow acting solvent cement especially formulated for watertight conduit fittings.
- Solvent cement MSC3: a fast acting watertight solvent adhesive with good take-up properties and mainly for trunking systems.

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

Spacer bar snap saddle

- Slide saddle into groove until it locks into the spacer bar.
- To dismantle, insert 4mm blade screwdriver into slot on side. Twist screwdriver to release the saddle in the spacer bar groove.

If conduit is installed in a corner, ensure that the spacer bar snap saddle is fitted with release mechanism facing away from corner.



MT Supertube

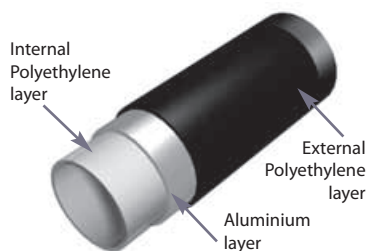
General information

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).

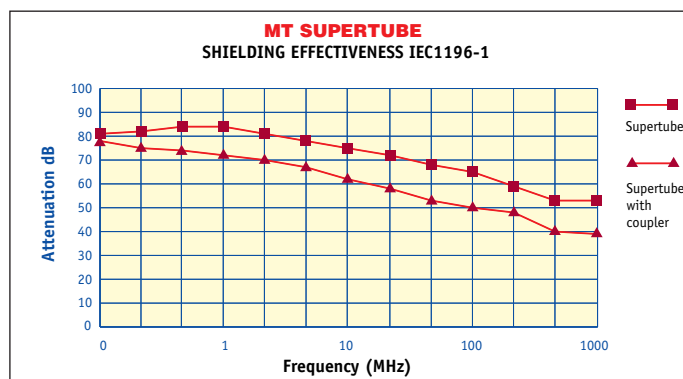


Shielding effectiveness

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 absorb 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

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

Electrical

Electrical breakdown resistance	20,000 V
Temperature range °C	-45 +120
Thermal expansion coefficient	2.0 x 10 ⁻⁶ mm/m/K
Thermal conductivity	0.45 W (mK)
Earth bonding/continuity test results (per fitting)	< 0.05 Ω (0.00256 Ω)
Standards	BS EN 50086-2-1 1996 CLAUSE 12.1 DIN EN 50086-2-1 1995 IEC 601196-1

WARNING NAIL PENETRATION: MT Supertube FR Plus complies with requirements for BS 7671, BS 8436 and BS EN 61386.

Installation

Conduit



MT Supertube can be shaped and slow bends formed by hand but care needs to be taken to avoid kinking.



For tighter radius bends use compact hand bender or inspection elbows and bends.

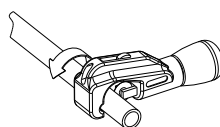
Fittings

1. For EMC screening system

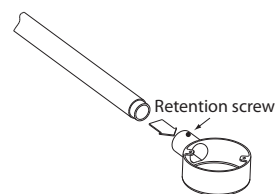
- Cut the tube squarely to the required length (Tool No. 20001).
- Remove 12-16mm of insulation, taking care not to cut the aluminium layer (Tool No. 20002).
- Push conduit firmly into fitting and secure using screw located in spout.
- Fasten tube with a saddle within 150mm of spout.

2. For halogen free system

- Cut the tube squarely to the required length. Tool no. 20001.
- Apply sealant (20006) to the end of the tube.
- Push the tube firmly into the fitting spout.
- Fasten tube with a saddle within 150mm of spout.

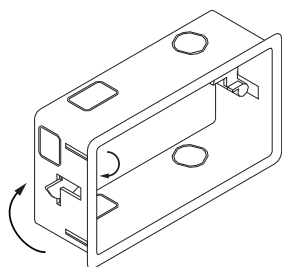


Stripping Tool 12 – 16mm



Accessory boxes and enclosures

Square and rectangular dry lining accessory boxes



Installation

Fitting

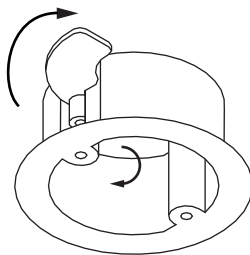
- Choose correct box for application and board depth and cut relevant size aperture in board for box (see table).
- Board should have sufficient strength to support the accessory.
- Remove knockout(s) and pass cables into box. Insert box into aperture and swivel out lugs using internal fins, if fitted, to hold box in position.
- Terminate accessory and, using accessory fixing screws, draw in the lugs, clamping box securely to the board.
- For easy identification the lugs are colour-coded to denote board thickness on standard boxes:

Lug Colour	Adjustment
Grey	1 – 9mm
White	6 – 14mm
Green	18 – 25mm
Black	9 – 26mm

Cut out dimensions

Box type	Cut out size
1 gang	73 x 73mm
2 gang	135 x 73mm
Dual gang	157 x 73mm

Circular dry lining accessory boxes



- Choose correct box for application and board depth and cut relevant size aperture in board for box (see table).
- Board should have sufficient strength to support the accessory.
- Remove knockout(s) and pass cables into box. Insert box into aperture and swivel out lugs using internal fins, if fitted, to hold box in position.
- Terminate accessory and, using accessory fixing screws, draw in the lugs, clamping box securely to the board.

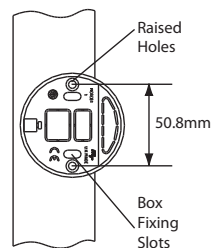
Lug Colour	Type
White	Single entry box
Red	Dual entry box

Note: Ceiling mounted circular boxes can support 3kg centrally at 60°C maximum subject to ceiling construction.

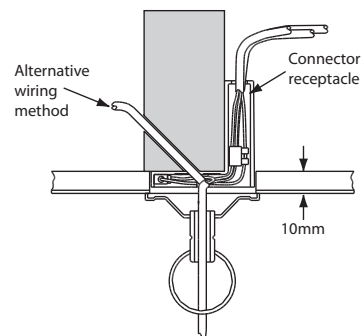
- For easy identification the lugs are colour-coded to denote type of box:

	Single entry	Dual entry
Board thickness	9-32mm	9-32mm
Entry	Ø20mm x1 off KO	Ø20mm x2 off KO
Aperture size	Ø63.5mm	Ø70.0mm
Internal depth	34mm	34mm
Fixing centres	M3.5 x 50.8mm	M4.0 x 50.8mm M3.5 x 60.3mm

Ceiling connector box



THE PRODUCT DOES NOT SUPPORT THE ELECTRICAL FITTING



- Prior to installation, confirm medium is capable of supporting load.
- Feed cables through the appropriate knockouts.
- Fix box with two suitable screws through the two 5mm slots provided.
- Terminate all wires with suitable connectors and insert into receptacle in box.
- Place cover of fitting over box and secure with two No.8 screws into the load bearing medium through the two 5mm raised holes provided.

	Ceiling connector
Board thickness	10mm
Entry	3 off KO
Aperture size	Ø65mm
Internal depth	8/65mm
Fixing centres	50.8mm unsupported

Moulded enclosures
Adaptable boxes

Adaptable boxes as supplied, have a degree of IP66 protection. Any openings that are drilled or cut 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.

GRP ladder and tray

Material

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 -800C to + 1400C and has excellent resistance to fire and corrosion being self-extinguishing and zero halogen.

Installation

Expansion/contraction

Bases come with

Fitting

- Secure base at centres of 1500mm apart.
- Supports should be position at a maximum of 300mm from the start or finish of a run.
- Place the projecting lip of the next base into previous base, maintaining joint for expansion.

Bend radius control

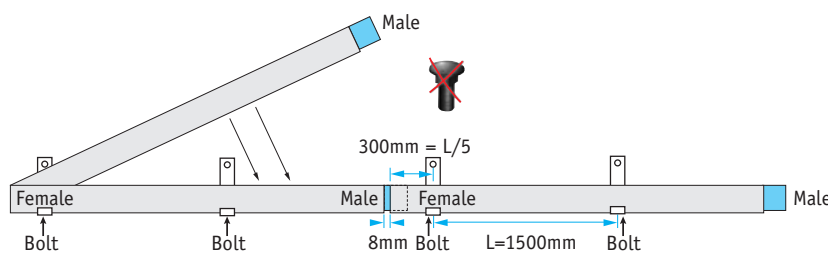
Hot press moulded technique of manufacture permits the forming of 3000mm base/covers and a large range of fittings with various bend radius controls.

Covers

Covers should overlap the base joint by at least 300mm to ensure maximum strength. Secure to the base by four clips, two required at 50-100mm from each end.

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 250C.



Positioning couplings without screwing junctions

- Every junction fitting should have accompanying support within 200mm.
- All bases and fittings must be fixed laterally with 4mm clearance holes on each side of support.
- Built-in, self-adjusting, interlocking couplers automatically provide an expansion joint for thermal movement.
- Can be drilled with standard power tools.
- When cutting by hand, a tungsten, carbide-tipped, heavy duty cross-cut saw is recommended.
- Power disc cutting equipment makes this task easier but should be done in an open air environment.

GRP ladder and tray - continued

GRP cable ladders pultruded

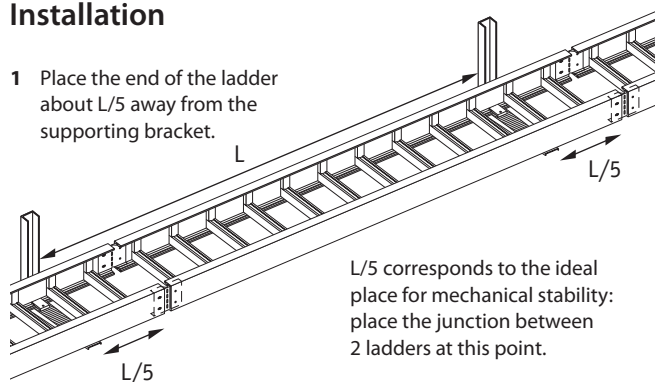
Resin types (all zero halogen)

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 (H ₂ SO ₄ HCl...)
Carbon loaded polyester (on request)	antistatic properties for highly explosive atmospheres

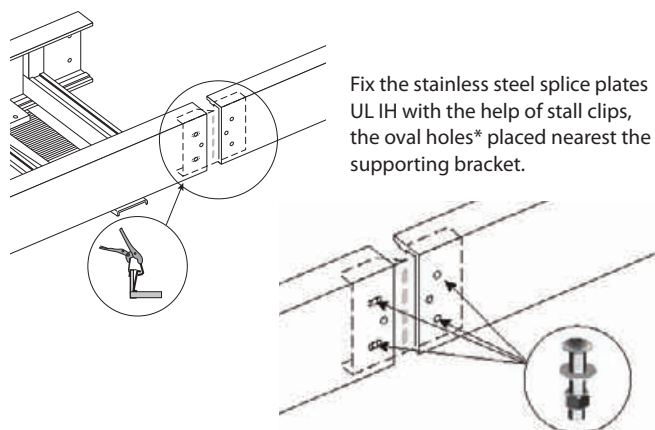
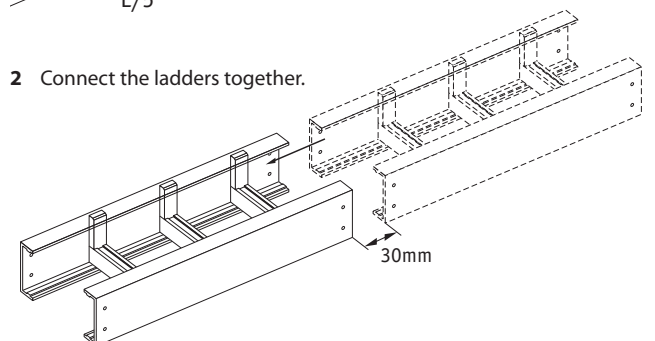
Alternatively for specific projects we will define a solution to meet your needs.

Installation

- 1 Place the end of the ladder about L/5 away from the supporting bracket.



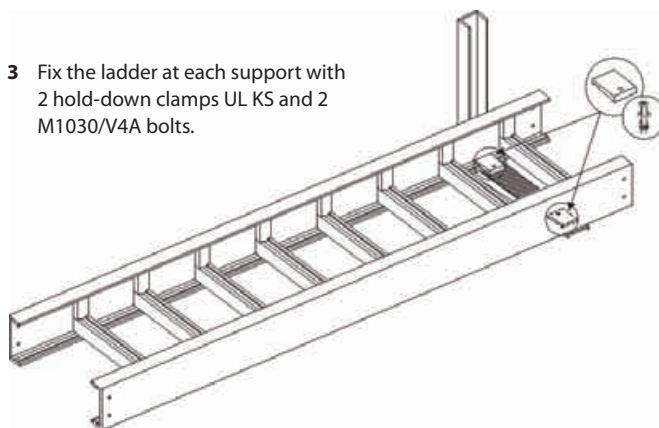
- 2 Connect the ladders together.



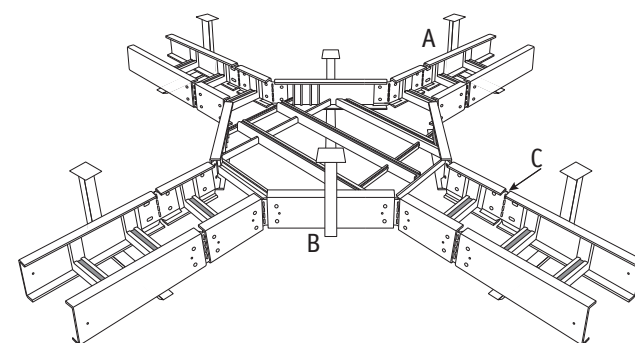
Lock the junction with 4 x M620/V4AS bolts.

(*) The splice plates UL IH are pre-punched with 2 holes Ø 8mm and 2 oval holes 20 x 8mm in order to assure a solid fixing and to allow the expansion of the GRP material.

- 3 Fix the ladder at each support with 2 hold-down clamps UL KS and 2 M1030/V4A bolts.

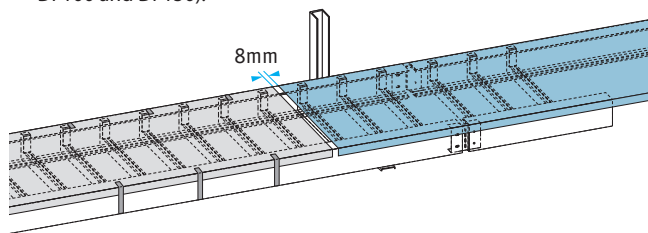


- 4 Follow the installation procedure.



- A All fittings must be supported at every cable entry.
B Add a central support for all fittings with radius greater than 250mm and/or with width greater than 400mm.
C Lock systematically each splice plate UL IH with 4 M620/V4AS bolts on fittings extremities.

- 5 Fix the cover with clips made of stainless steel 316 (ref.DF50, DF80, DF100 and DF150).



Under normal conditions use 3 clips alternatively on each side per 3 metres of ladders.

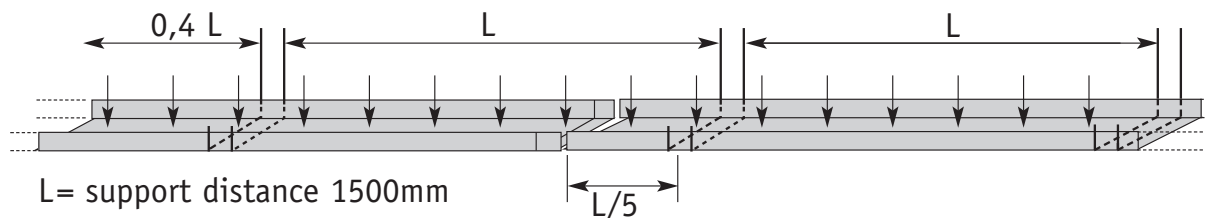
Under extreme conditions (strong winds > 60km/h) use 7 clips per 3 metres of ladders.

GRP ladder and tray - continued

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.



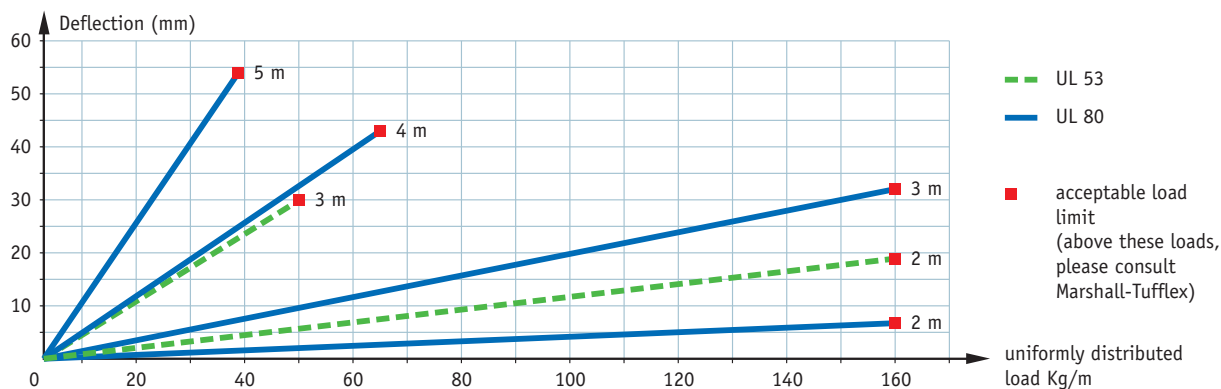
The deflection values are measured with the position of the junction between 2 ladders at a distance $L/5$ from a support. If this distance is not respected, it is necessary to raise the deflection values by about 30% when fully loaded.

		Useful area (mm²)	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: $60 \times 2 = 120\text{kg}$ uniformly distributed along 3m (ie 40kg/m).

GRP ladder and tray - continued

GRP Ground Ducts

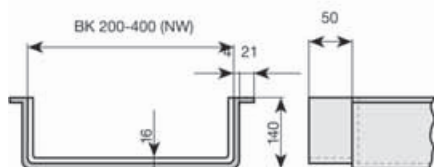
Load characteristics of ground duct

BK Height 140 mm

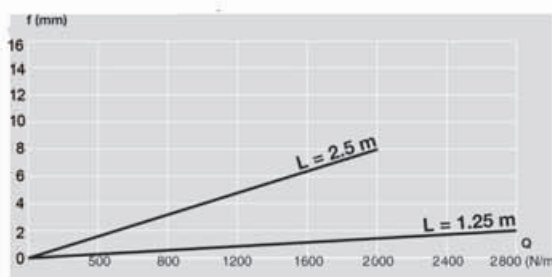
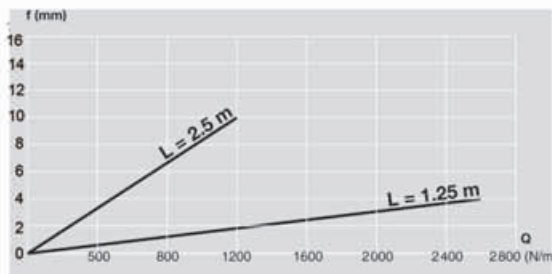
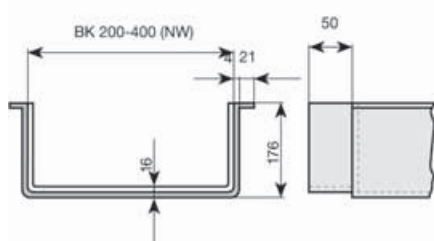
F = Deflection

L = Support Distance

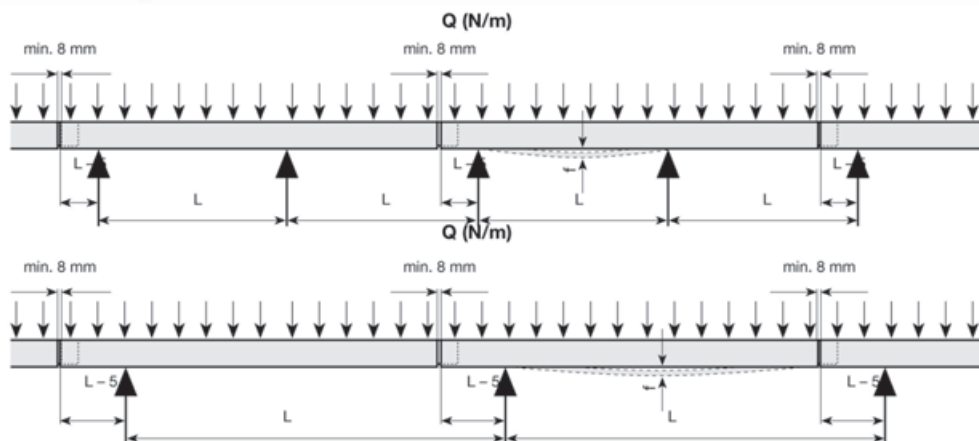
Q = Distributed Load



BK Height 176 mm



Tested in normal conditions of use

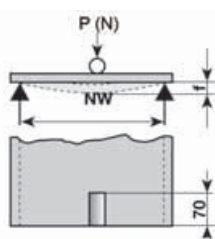


Load diagrams of plate covers

P = Load in N

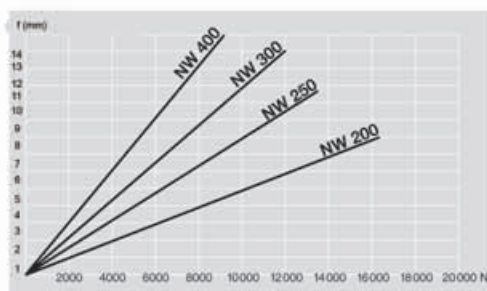
f = Deflection

NW = Nominal width BK

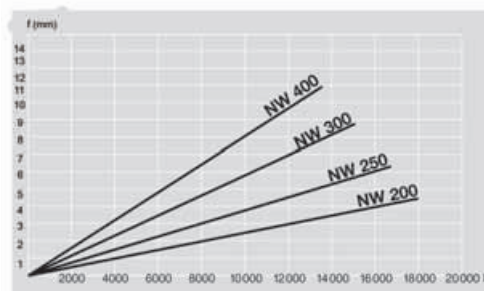


Load at edge of piece

BKDR 5mm



BKDR 8mm

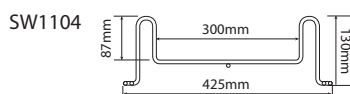
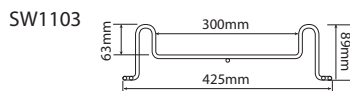


SnakeWay

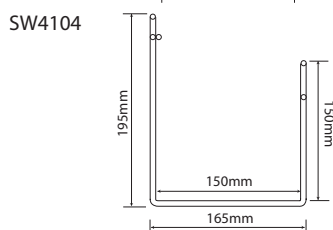
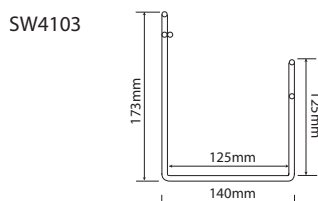
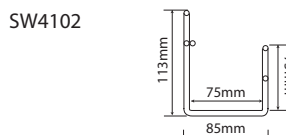
Material

SnakeWay is manufactured from ATM A510 high strength steel wire and pregalvanised in accordance with ASTM A641-89 to produce a resilient finish which is suitable for indoor application or mild and sheltered outdoor environments.

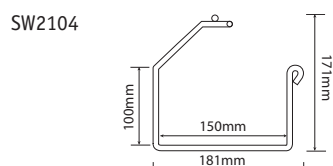
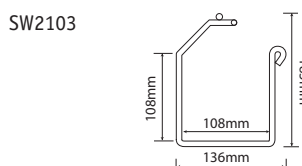
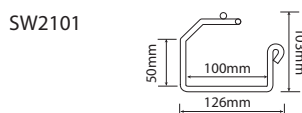
Floor SnakeWay



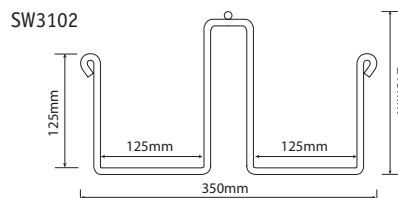
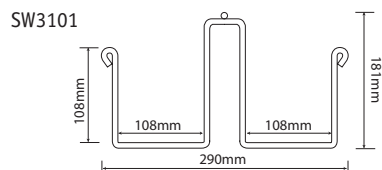
Wall SnakeWay



Hanging SnakeWay - single



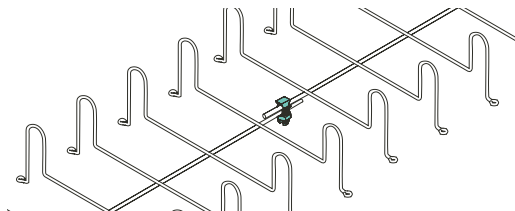
Hanging SnakeWay - double



Note: Use alternate mounting rings and support at the appropriate distance to accommodate the total cable capacity. Clamp each side of the mounting ring with a nut and washer. This will assist in maintaining a level profile when unbalanced loads are contained.

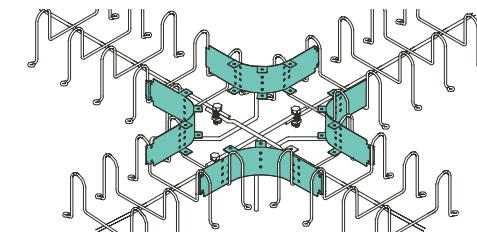
SnakeWay connector - SW1201

Provides both a mechanical and electrical connection when joining snakeway sections to one another. Only one required per connection.



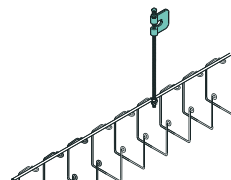
Floor intersection or tee

Used when creating 101 Series snakeway horizontal intersections. Creates a consistent smooth transition. Will not allow cables to kink. Easily attaches to SnakeWay with cable ties.



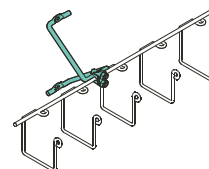
Beam clamp – SW2202

Attaches Hanging SnakeWay directly to the building structure or when suspending the snakeway with threaded rod. Clamp the mounting ring with a nut and washer on each side. The beam clamp will receive a 10mm threaded rod.



Wall bracket – SW2232

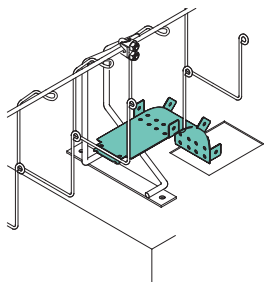
Used to attach single hanging SnakeWay to walls and other vertical surfaces.



SnakeWay - continued

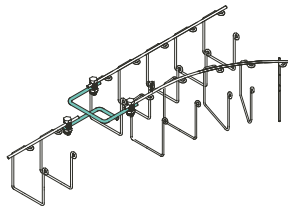
Cable drop – SW2211 or SW2212

Provides a smooth transition for cables when exiting the SnakeWay. Maintains a consistent 100mm radius eliminating kinked cables. Easily attaches to SnakeWay with cable ties.



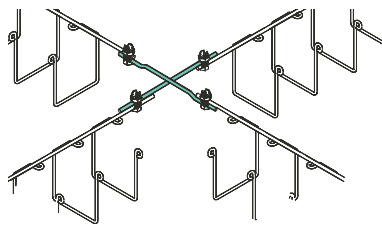
Hanging Y connection – SW2222

Used to create a 'Y' intersection or split double hanging into two separate cable paths at a terminal end.



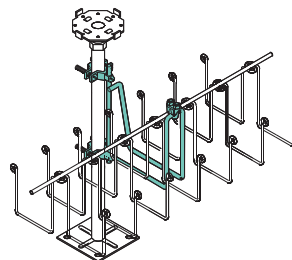
Single hanging intersection – SW2221

Installed as either a tee or four way crossing intersection.



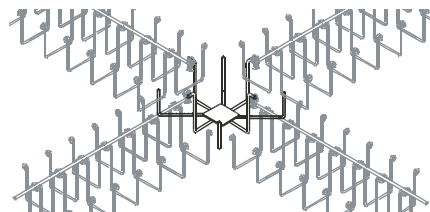
Pedestal bracket – SW2234/SW3234

Used to attach hanging SnakeWay to the floor pedestals utilised in the construction of raised access floor.



Double hanging intersection – SW3221

Installed as either a tee or four way crossing intersection component for the double hanging SnakeWay.



Loading capacity data

Product Code	Cable Capacity						Max. Load
	Space Factor sq mm	Twin & Earth 2.5mm/45% fill	Twin & Earth 4.0mm/45% fill	Typical 4 Core 35mm ² SWA	Cat.5e UTP 5.5mm/45% Fill	Cat.6 UTP 6.5mm/45% Fill	U.D.L in Kg/m
SW1103	18900	155	122	8	282	202	Not Applicable
SW1104	26100	214	168	11	389	278	Not Applicable
SW2101	5000	41	32	2	75	53	5.3 span 1.2m
SW2102	5625	46	36	3	84	60	5.3 span 1.2m
SW2103	11664	95	75	4	174	124	5.3 span 1.2m
SW2104	15000	123	96	6	224	160	5.3 span 1.2m
SW3101	23328	191	150	4 x 2	348	249	5.3 span 1.2m
SW3102	31250	256	201	6 x 2	466	333	11.0 span 1.2m
SW4101	2500	20	16	1	37	27	5.3 span 1.2m
SW4102	5625	46	36	2	84	60	5.3 span 1.2m
SW4103	15625	128	100	6	233	167	5.3 span 1.2m
SW4104	22500	184	145	6	335	240	5.3 span 1.2m

Loading to give a 1% deflection with support adjacent to connector.
Additional fastenings may be required to accommodate cable capacities shown.

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 cable management systems incorporate 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 provides a 100% recyclable material with good sustainability. It complies with the requirements of BS 4761 Parts 6 and 7, BS 4678 and BS 7671:2008.

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.

Installation

For technical information on installation of all PVC-U Bio trunking systems, please refer to the relevant technical pages of PVC-U Perimeter trunking systems starting on page 242.

Bio Trunking Solutions are independently tested to ISO 22196:2007

TEST RESULTS: Marshall-Tufflex Report #2422431

LABORATORY: Thomson Research Associates Inc., Ontario, Canada

TEST ORGANISM: Methicillin Resistant Staphylococcus aureus - MRSA

Quantitative Assessment of Activity – ISO 22196:2007 MRSA

Concentration of starting inoculum		4.94 x 10 ⁵ CFU/mL		
Sample Description	Number of bacteria recovered	Log Value	R = [log(B/C)]	% Survival
1. Flat profile – Blue Tape, White PVC – untreated control	7.19 x 10 ⁶	6.9	-----	-----
2. Curved profile – Red Tape, White PVC – Treated with Ultra-Fresh CA-16	<2.00 x 10 ¹	<1.3	>5.6	<0.1%

TEST RESULTS: Marshall-Tufflex Report #2422435

LABORATORY: Thomson Research Associates Inc., Ontario, Canada

TEST ORGANISM: Klebsiella pneumoniae

Quantitative Assessment of Activity – ISO 22196:2007 K.pneumoniae

Concentration of starting inoculum		1.16 x 10 ⁵ CFU/mL		
Sample Description	Number of bacteria	Log Value	R = [log(B/C)]	% Survival
1. Flat profile – Blue Tape, White PVC – untreated control	3.06 x 10 ⁶	6.5	-----	-----
2. Curved profile – Red Tape, White PVC – Treated with Ultra-Fresh CA-16	4.01 x 10 ²	2.6	3.9	<0.1%

The treated curved profile (Sample 2) showed excellent control of both MRSA and Klebsiella Pneumoniae with a greater than 99.9% reduction in bacteria compared to the untreated flat profile (Sample 1). The bacteria grew on the untreated sample.

Bio trunking has demonstrated effectiveness against:

- Methicillin Resistant Staphylococcus aureus (MRSA)
- Klebsiella pneumoniae
- Streptococcus pyogenes
- Enterococcus faecalis
- Escherichia coli
- Pseudomonas aeruginosa
- Acinetobacter baumannii
- Bacillus subtilis
- Salmonella
- Legionella

Aluminium systems

Material

Aluminium is a high quality material which is light to handle but with excellent mechanical strength and impact-resistance. Aluminium provides inherent LSOH properties and first class screening performance, especially in high frequencies.

XL Aluminium trunking

Installation

For all technical information on XL Aluminium trunking, please refer to pages 268 and 269 of the Aluminium perimeter trunking section. All information on those pages is relevant with the following additions:

Positioning

For dado installation only.

Gas outlets

Covers for gas mounting plates EEBH05 (1 gang), EEBH04 (2 gang) and EEBH03 (3 gang) are pre-punched to accept gas outlets and can be used with XL trunking.

Light fittings

Pre-cut covers to accept external lighting mountings are available on request. For more information please contact the Technical Team on 01424 855688.

Please note: in the general installation instructions for XL Aluminium trunking, polycarbonate fittings are shown as an option but these would not generally be used within a healthcare environment.

MT Conquest medical service units

MT Conquest is a project-specific, bespoke system, manufactured from 6060T5 high precision aluminium. For more detailed product and technical information on MT Conquest, please call our Technical Team on 01424 856688.

Installation

Positioning

As bedhead or medical service trunking.

Gas outlets

Covers for gas mounting plates EEBH05 (1 gang), EEBH04 (2 gang) and EEBH03 (3 gang) are pre-punched to accept gas outlets and can be used with MT Conquest Medical Service Units.

Light fittings

Pre-cut covers to accept external lighting mountings are available on request. For more information please contact the Technical Team on 01424 855688.

Callmaster fire and security systems

Material

PVC-U is flame retardant and self extinguishing. It provides a 100% recyclable material with good sustainability. It complies with the requirements of BS 4761 Parts 6 and 7 and BS 4678. The Callmaster system is designed to comply with BS 7671:2008.

Installation

- Select Terminal or through box to suit installation.
- If a terminal box is used, fit the blanking plate to unused entry.
- Depending upon circuit wiring, select MIC internal Pot retainer or cable Fibre clamp. Both components are suitable for single for single or twin cable runs.
- Insert one half of the retainer/clamp into the surface box (from the rear) and secure box to the wall.
- Lay in MIC or cable and secure in position with top half of retainer/clamp – fit Mini adaptor.
- Terminate wiring to accessory and fit to box.

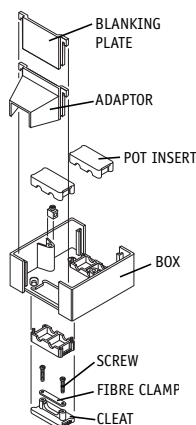
Boxes

Dimensional data for square boxes

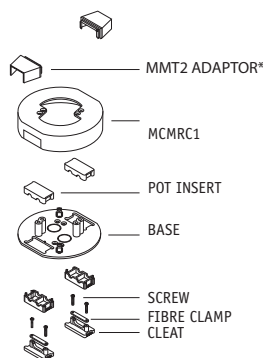
- Overall: 87 x 87mm
- Depth: 38mm external; 35mm internal.
- Fixing centres: 60.3mm.
- Pot size: Ø15mm.

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



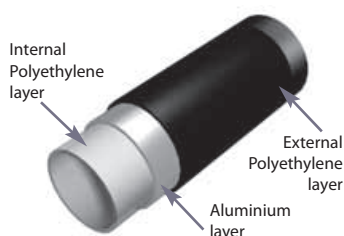
MT Supertube FR Plus

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)



LUL Standard

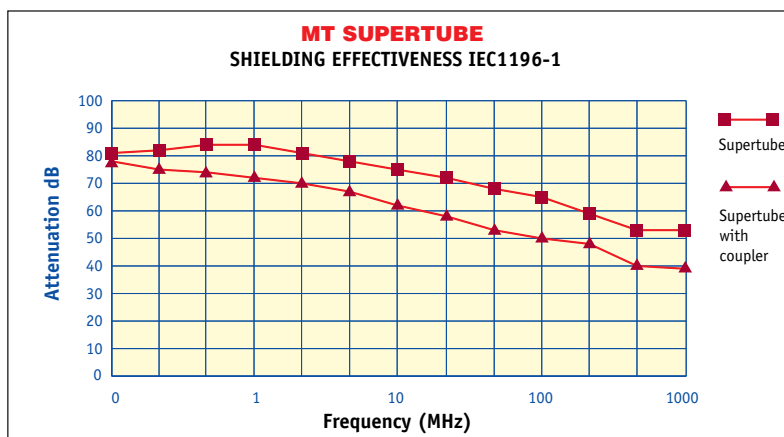
MT Supertube FR Plus meets all the fire performance requirements for LUL (London Underground Ltd) engineering standard 2-01001-002:issue A1, material classification EQ/I (equipment/limited and dispersed).

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 FR Plus 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 FR Plus by a factor of 10,000. (See tables.)



MT Supertube FR Plus – continued

Mechanical

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	

Electrical

Electrical	
Electrical breakdown resistance	20,000 V
Temperature range °C	-45 +289°C
Thermal expansion coefficient	2.0 x 10 ⁻⁶ mm/m/K
Thermal conductivity	0.45 W (mK)
Earth bonding/continuity test results (per fitting)	< 0.05 Ω (0.00256 Ω)
Standards	BS EN 50086-2-1 1996 CLAUSE 12.1 DIN EN 50086-2-1 1995 IEC 601196-1

WARNING: The aluminium tube is not suitable to be used as a protective conductor (CPC).

NAIL PENETRATION: MT Supertube FR Plus complies with requirements for BS 7671, BS 8436 and BS EN 61386.

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 Annex A	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

Installation

Conduit



MT Supertube can be shaped and slow bends formed by hand but care needs to be taken to avoid kinking.

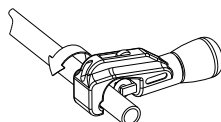


For tighter radius bends use compact hand bender or inspection elbows and bends.

Fittings

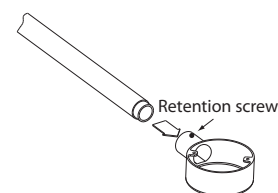
1. For EMC screening system

- Cut the tube squarely to the required length (Tool No. 20001).
- Remove 12-16mm of insulation, taking care not to cut the aluminium layer (Tool No. 20002).
- Push conduit firmly into fitting and secure using screw located in spout.
- Fasten tube with a saddle within 150mm of spout.



2. For halogen free system

- Cut the tube squarely to the required length. Tool no. 20001.
- Apply sealant (20006) to the end of the tube.
- Push the tube firmly into the fitting spout.
- Fasten tube with a saddle within 150mm of spout.



Stripping Tool 12 – 16mm



Retention screw

Ingress protected (IP) switches, sockets and RCDs

Material

High impact resistant polycarbonate* to cope with a demanding environment. Colour-fast, resistant to UV light and able to withstand temperatures from -40°C to +70°C.*Except OEM IP56 units

IP Ratings

Ingress protection numbers are used to specify environmental protection of enclosures around electrical equipment. The first number indicates resistance to solid objects and the second number indicates resistance to liquid ingress.

Solid object protection		Water ingress protection	
0	No protection	0	No protection
1	Protected against solid objects up to 50mm e.g. accidental touch by hand.	1	Protected against vertically falling drops of water e.g. condensation.
2	Protected against solid objects up to 12mm e.g. fingers.	2	Protected against direct sprays of water up to 150 from the vertical.
3	Protected against solid objects from 2.5mm e.g. tools and wires.	3	Protected against direct sprays of water up to 600 from the vertical.
4	Protected against solid objects from 1mm e.g. wires, nails.	4	Protected against water splashed from all directions, limited ingress permitted.
5	Protected against dust, limited ingress, not harmful deposits.	5	Protected against low pressure jets of water from all directions, limited ingress permitted.
6	Total protection against dust.	6	Protection against strong jets of water e.g. on ship decks, limited ingress permitted.
		7	Protection against the effects of temporary immersion between 15cm and 1m. Duration of test 30mins.
		8	Protection against long periods of immersion under pressure.

RCD Operational modes

Electrically latched (active)

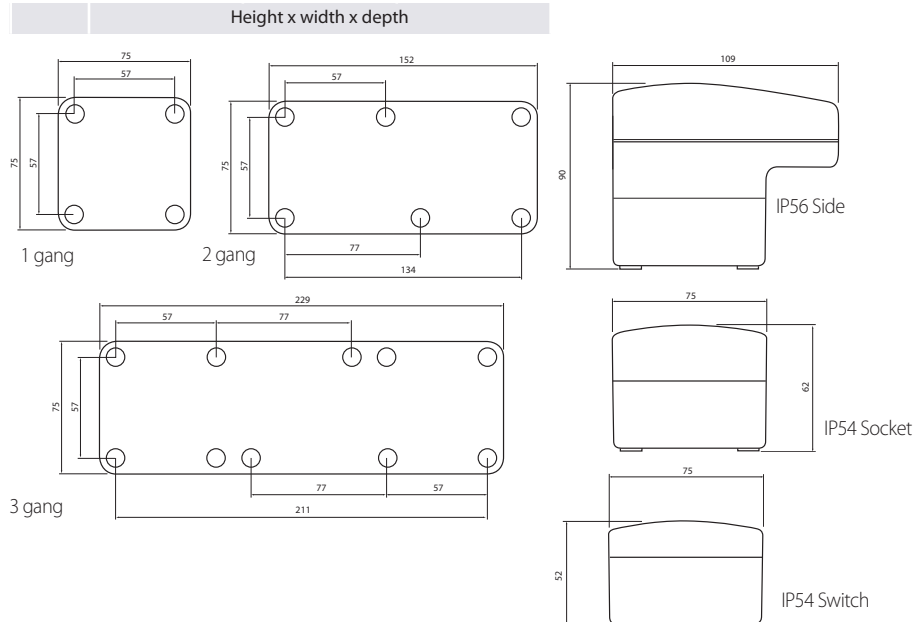
Devices that trip with loss of supply live and /or loss of neutral. Suitable for: applications that would be potentially dangerous if they restarted unattended upon restoration of power e.g. hedge trimmers, power tools, lawn mowers, machine tools and manufacturing equipment.

Mechanically latched (passive)

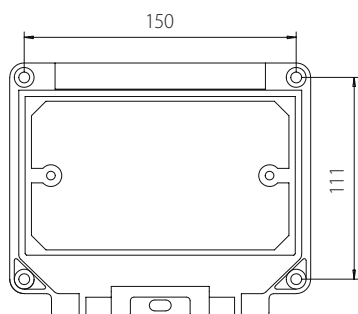
This device trips only with detection of current leakage. Contacts do not open upon loss of supply. Suitable for: applications where automatic restart is desirable after a power loss e.g. fridges, freezers, water filtration systems and vending machines.

Product dimensions IP56 and IP54

	Overall dimensions		
	IP54 range		IP56 range
	sockets	switches	
1 gang	75 x 75 x 62mm	75 x 75 x 52mm	109 x 75 x 90mm
2 gang	75 x 152 x 62mm	75 x 152 x 52mm	109 x 152 x 90mm
3 gang	75 x 229 x 62mm	75 x 229 x 52mm	109 x 229 x 90mm

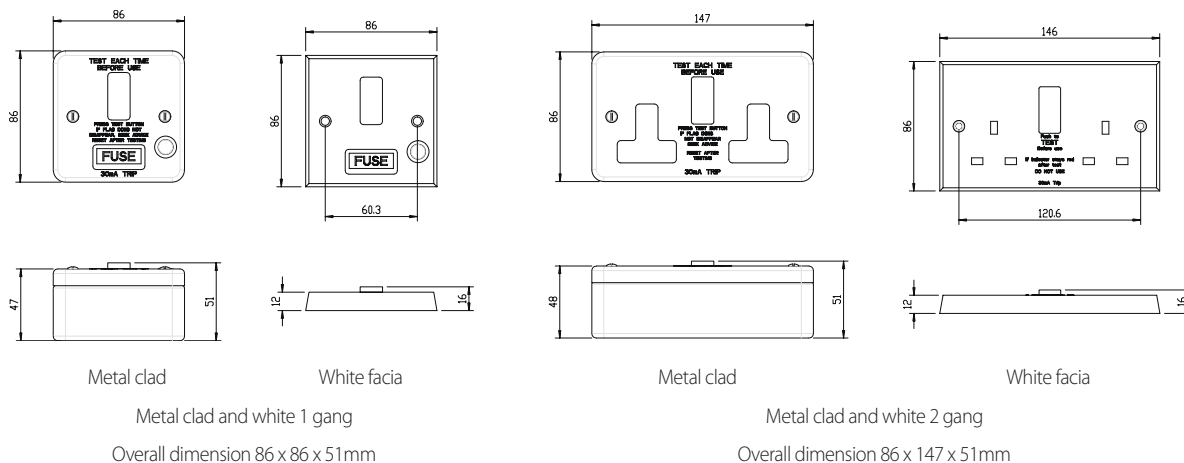


Product dimensions IP55 enclosures



Overall dimension 166 x 142 x 90mm

Product dimensions metal clad



Product index and general information

www.marshall-tufflex.com

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Health and Safety at work

Health and Safety at work etc. Act 1974

1. 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.
2. 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.
3. 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.
4. 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.

5. 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.

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 or specification of its products without notification.

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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.

PVC-U perimeter trunking systems - by size

Dimensions	Range	Page
75 x 20	Sovereign Plus	165
100 x 50	Mono 10	60
130 x 50	Compact 1	66
130 x 50	Compact 2	68
130 x 65	Series R 130	104
140 x 50	Mono Plus 20	62
155 x 55	Mono Plus 30	64
165 x 65	Twin165	100
167 x 50	Sterling Profile 1	74
167 x 50	Sterling Profile 2	74
167 x 50	Sterling Profile 3	74
170 x 65	Series R 170	105
180 x 57	Odyssey	58
181 x 50	Compact 3	70
210 x 57	Twin Plus	101
218 x 50	Sterling Profile 4	80
218 x 50	Sterling Profile 5	80
220 x 65	XL Trunking 201	88
220 x 65	XL Trunking 202	88
220 x 65	XL Trunking 203	88
255 x 50	Sterling Profile 11	80
255 x 50	Sterling Profile 12	80
269 x 50	Sterling Profile 6	80
306 x 50	Sterling Profile 13	80
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308 x 65	XL Trunking 212	93
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Steel perimeter trunking systems - by size

Dimensions	Range	Page
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170 x 63	System 170	136
210 x 63	System 210 Twin	138

PVC-U containment systems - by size

Dimensions	Range	Page
10 x 8	MMT00	148
16 x 10	MMT0	148
16 x 16	MMT1	148
25 x 16	MMT2	148
34 x 34	Angled Trunking	160
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38 x 25	MMT4	148
38 x 38	MMT5	148
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Aluminium perimeter trunking systems - by size

Dimensions	Range	Page
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167 x 50	Sterling Profile 3002	112
167 x 50	Sterling Profile 3003	112
210 x 57	Twin Plus	124
220 x 65	XL Trunking 301	116
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220 x 65	XL Trunking 303	116
308 x 65	XL Trunking 311	120
308 x 65	XL Trunking 312	120
308 x 65	XL Trunking 313	120

Laboratory and healthcare perimeter trunking systems - by size

Dimensions	Range	Page
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105 x 105	Bench Aluminium	204
130 x 50	Compact 2 Bio Trunking	204
140 x 50	Mono Plus 20 Bio Trunking	204
167 x 50	Sterling Profile 1 (other sizes available – contact Technical Team on 01424 856688)	204
180 x 57	Odyssey Bio Trunking	204
210 x 57	Twin Plus Bio Trunking	204
from 220 x 65	XL Aluminium Trunking (other sizes available – contact Technical Team on 01424 856688)	204
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360 x 65	MT Conquest (Bedheads) Series 240 Aluminium	204

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12008	160	2MRB4	170, 214	AA3532	106, 130, 144	AY1210	98
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12013	161	2MRB8	170	AA6121	106, 130, 144	AY1230	98
12020	161	2MRB9	170	AA6151	106, 130, 144	AY1234BIO	100
12021	161	3MRB1	170	AA6221	106, 130, 144	AY1240	98
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