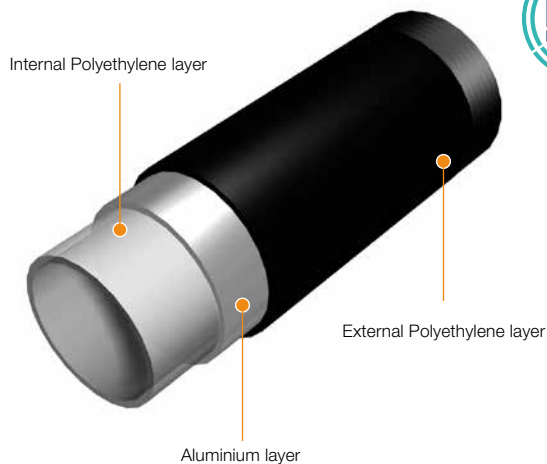


MT SUPERTUBE

MT Supertube is a unique, LSOH, 3-layer heavy gauge conduit comprising polyethylene internal and external layers over a continuous aluminium tube that provides additional mechanical strength. MT Supertube has excellent EMI screening performance and is a practical and cost-saving alternative to standard galvanised conduits.



Product information

- Ø20mm and Ø25mm
- LSOH conduit
- Excellent screening performance
- Suitable for rail, marine and tunnel applications
- ZERO WASTE: available in continuous lengths of up to 100 metres, meaning fewer fittings per installation
- Longer lengths also prevent ingress of water
- Extra security from data interference
- Suitable for in-screed applications
- Withstands temperatures from -45°C to +120°C
- Nail penetration: MT Supertube complies with requirements of the current version of BS 7671, BS EN 61386-1:2008
- BS 8436 is specification for 300/500V screened electric cable

Note: Allowance must be made for earthing the trunking system to comply with the current version of the BS 7671 Wiring Regulations.

MT SUPERTUBE is a time saving alternative to galvanised steel conduit.
See page 135 for the MT Supertube cost and labour saving comparison.

Standard Colours	
WH	BK
WH: White BK: Black	

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

FIRE SECURITY

MT Supertube FR Plus

MT Supertube is available to meet the requirements of LUL (London Underground Ltd) engineering standard 2-01001-002:issue A1, material classification EQ/1 (equipment/limited and dispersed).

*Please note MT Supertube FR Plus is not a standard stock item and therefore lead times and minimum order quantities will apply. Please contact our Technical Team for a quotation on +44 (0)1424 856688.

CONDUIT SYSTEMS

Coils and lengths



MT Supertube conduit

code	size	pack
22003WH	20mm	30 x 3m
22503WH	25mm	30 x 3m

MT Supertube coils

code	size	pack
22010BK	20mm	1 x 100m
22505BK	25mm	1 x 50m

Tools



Tube cutter

code	size	pack
20001	20-25mm	1

Stripping tool (pre-set)

code	size	pack
20002	20-25mm	1

Compact tube bender

code	size	pack
20003	20-25mm	1



Fittings (metal)



Female adaptor with brass bush

code	size	pack
22077BK	20mm	10
22577BK	25mm	10



Coupler

code	size	pack
22079BK	20mm	10
22579BK	25mm	10

Boxes (metal)



Terminal box

code	size	pack
22072BK	20mm	10
22572BK	25mm	10



Tee box

code	size	pack
22075BK	20mm	10
22575BK	25mm	10



Through box

code	size	pack
22073BK	20mm	10
22573BK	25mm	10



Angle box

code	size	pack
22074BK	20mm	10
22574BK	25mm	10



Flush lid

code	pack
20007BK	1

MT Supertube EMI protection boxes and fittings

- Provision to accept a 4mm earthing screw
- All boxes supplied with conduit retaining screw
- All boxes are designed to comply with the current version of BS 7671 Wiring Regulations
- Taper push-fit conduit entry
- Fittings are available in black and white

Case Study

Tate Modern's new extension, the £260m Switch House, required a highly creative approach to the installation of electrical services in a concrete core that rises through the centre of the 10-storey building.

Contractors REL Building Services ruled out the use of traditional galvanised conduit as too costly and unworkable, opting instead for MT Supertube and in doing so breaking new ground in the application of the product. The cable management - carrying power, lighting, data, fire alarms, security, access control and CCTV services - was encased within the building's concrete core and delivered the architectural vision for flush-mounted electrical accessories without the use of voids for cable concealment in floors, walls or ceilings.

Steve Jamieson, REL Technical Manager, said: "Only a flexible solution like MT Supertube could have been used to deliver this installation as it allowed the team to bend lengths of conduit to fit into position around the steelwork and maximised the lengths we could use without a termination.

"MT Supertube's smooth inner surface also allows cables to be inserted using a traditional draw wire, enabling cable pulls of up to 50m in length through a tube with no fittings. This minimises the risk of cables snagging during the build or any future electrical refurbishment, which would not have been possible using a traditional galvanised conduit and fittings arrangement."

Steve Jamieson, REL Technical Manager

Fittings (polycarbonate)



Male adaptor		
code	size	pack
22042BK	20mm	25
22542BK	25mm	25



Coupler		
code	size	pack
22044BK	20mm	100
22544BK	25mm	50



Spacer bar snap saddle		
code	size	pack
22051BK	20mm	100



Spacer bar saddle		
code	size	pack
22552BK	25mm	100



U-clip		
code	size	pack
22053BK	20mm	100
22553BK	25mm	50



Inspection elbow		
code	size	pack
22045BK	20mm	20



Inspection bend		
code	size	pack
22546BK	25mm	20



Inspection tee		
code	size	pack
22047BK	20mm	20
22547BK	25mm	20



Sealant		
code	size	pack
20006	50ml	1x50ml

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

Boxes (polycarbonate)



Loop-in box		
code	size	pack
22011BK	2 x ø20mm KO	20
22511BK	2 x ø25mm KO	20



Terminal box		
code	size	pack
22012BK	20mm	20
22512BK	25mm	20



Through box		
code	size	pack
22013BK	20mm	20
22513BK	25mm	20



Angle box		
code	size	pack
22014BK	20mm	20
22514BK	25mm	20



Tee box		
code	size	pack
22015BK	20mm	20
22515BK	25mm	20



4-way box		
code	size	pack
22016BK	20mm	20
22516BK	25mm	10



Flush lid	
code	pack
20005BK	100

MT Supertube LSOH boxes and fittings

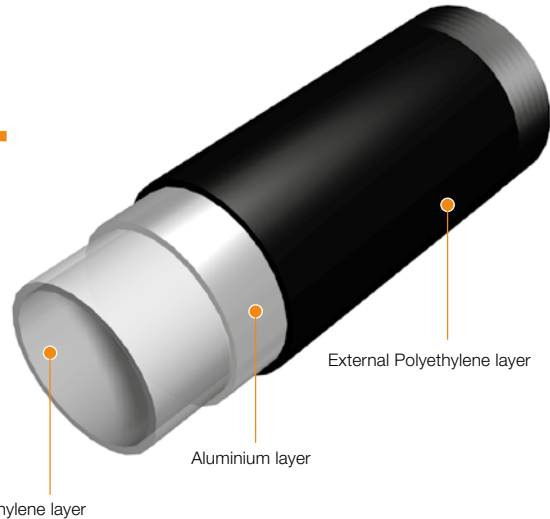
- Suitable for suspending a load of up to 3kg centrally at 60°C maximum
- Fixing centres 50.8mm fitted with M4 brass inserts
- Provision for brass earthing terminals
- Boxes comply with the current version of BS 7671 Wiring Regulations and BS 4607 where applicable
- Fittings are available in black and white

MT Supertube

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A TIME SAVING ALTERNATIVE TO GALVANISED STEEL CONDUIT

MT Supertube has a three layer Low Smoke Zero Halogen (LSOH) polyethylene and aluminium construction offering extremely good EMI cable protection and resistance to extremes of temperature and chemicals. It is lightweight yet has the strength of steel meaning it's quick to install and simple to store and carry on site.



- Combines the strength of metal with the flexibility of PVC-U conduit
- Fast installation
- Supplied in coils for easy movement around site without the need for hoists
- Assists in conforming to the EMC directive in regard to EMI shielding
- Fewer in line fittings required and minimal wastage
- Forms easily by hand and to a required radius when utilising the tube bender
- Can be buried in concrete and detected by a CAT detector
- Maintenance free



CONDUIT SYSTEMS

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

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

Galvanised steel

Material cost @ £2.18 per metre + fittings = £229.20
 Labour @ 30mins per metre = 2 metres per hour
 50 hours @ £35 = £1750
 Galvanised steel overall costs = £1979.20

MT Supertube

Material cost @ £2.96 per metre + fittings = £322.34
 Labour @ 10mins per metre = 6 metres per hour
 16.67 hours @ £35 = £583.45
 MT Supertube overall costs = 905.79

The savings on this job amount to £1073.41

54.23% cheaper than galvanised steel

It is also possible to reduce overall project costs by using MT Supertube as it can be bent into position by hand therefore reducing the need for as many fittings.

See page 132 for product ordering information.

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