

# CONDUIT SYSTEMS

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

# ROUND CONDUIT AND FITTINGS

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

## Product information

### Conduit

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

### Boxes

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



Light and heavy gauge options

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

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

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

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

CONDUIT SYSTEMS

Light & heavy gauge



### Light gauge

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

### Heavy gauge

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

\*Red is available as standard colour.

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

Round conduit fittings



### Expansion couplers

code	size	pack
MEC2WH	20mm	25
MEC3WH	25mm	10

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

### Straight couplers

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

\*Red is available as standard colour.

### Reducers

code	size	pack
MR2WH	25 x 20mm	50

### Plastic plugs – red only (for heavy gauge conduit)

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



### Inspection elbows

code	size	pack
MI2WH	20mm	20

For 25mm size use Inspection Bend



### Inspection bends

code	size	pack
MIB2WH	20mm	20
MIB3WH	25mm	20



### Inspection tees

code	size	pack
MIT2WH	20mm	20
MIT3WH	25mm	20



### Plain bends

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



**Adaptors (Female thread)**

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

\*Red is available as standard colour.



**Adaptors (Male thread)**

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

\*Red is available as standard colour.



**Adaptors (Clip-in spout)**

code	size	pack
MCA2WH*	20mm	100

\*Not available in black



**Male bushes**

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



**Threaded lockrings**

code	size	pack
MLR2WH	20mm	100
MLR3WH	25mm	50



**Round 'U' clips**

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



**Strap saddles**

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

\*Not available in black.



**Spacer bar saddles**

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

\*Red is available as standard colour.



**Spacer bar snap saddle**

code	size	pack
MSBS2WH	20mm	100



**Threaded cable gland**

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

\*Not available in black.



**Locknuts (for use with cable glands)**

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



**Plain body cable gland**

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

\*Red is available as standard colour.

\*Not available in black.



**Conduit to mini adaptor**

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



**Loop-in boxes**

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

\*Not available in black.



**Terminal**

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

\*Red is available as standard colour.



**Through**

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

\*Red is available as standard colour.

**Circular boxes**

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



**Angle**

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

\*Red is available as standard colour.



**Tee**

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



**4-way**

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



**Branch 2-way or U**

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

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



**Branch 3-way or Y**

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



**Twin through way or H**

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

\*Not available in black.



**Back outlet**

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

\*Not available in black.



**Terminal/back outlet**

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

\*Not available in black.



**Circular rubber gasket**

code	size	pack
MRG1	66mm diam	100

Black only



**Circular lids**

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

\*Red is available as standard colour.



**Circular extension rings**

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

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

\*Not available in black

Square adaptable boxes



**Terminal**

code	size	pack
4SJB1WH	32mm	1

Not available in black



**Through**

code	size	pack
4SJB2WH	32mm	1

Not available in black



**Angle**

code	size	pack
4SJB3WH	32mm	1

Not available in black



**Tee**

code	size	pack
4SJB4WH	32mm	1

Not available in black



**Four-way**

code	size	pack
4SJB5WH	32mm	1

Not available in black

**Square boxes**

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



**\*Conduit solvent cement**

code	pack
MSC	1x250ml

\*Child resistant lid

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Surface mounted



**1 gang - square corners**

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

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



**2 gang - square corners**

code	depth	pack
MSSB11KWH	32mm	10
MSSB23KWH	44mm	5

Not available in black



**1 gang - radius corners**

code	depth	pack
MSSB19KWH	32mm	20
MSSB40KWH	44mm	10

Not available in black



**2 gang - radius corners**

code	depth	pack
MSSB21KWH	32mm	10
MSSB41KWH	44mm	5

Not available in black

All standard surface boxes have 20mm KOs

Flush mounted



**1 gang - adjustable lug**

code	depth	pack
MSSB1WH	35mm	12
MSSB47WH	47mm	10

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



**2 gang - adjustable lug**

code	depth	pack
MSSB3WH	35mm	6

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

**Surface and flush mounted boxes**

**Surface mount boxes**

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

**Flush mount boxes**

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

Cover plates



**1 gang - flat**

code	depth	pack
MSCP2WH	2mm	20

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



**2 gang - flat**

code	depth	pack
MSCP3WH	2mm	10

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

Accessories



**Bending spring heavy gauge (green end)**

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



**Bending spring light gauge (white end)**

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



**Nylon draw tape**

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



**Channel (white only)**

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



**PVC pipe cutter**

code	pack
MTPC42	1



**Brass earthing terminal**

code	rating	pack
MET1	15Amp	100



**Corrugated conduit (polypropylene)**

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

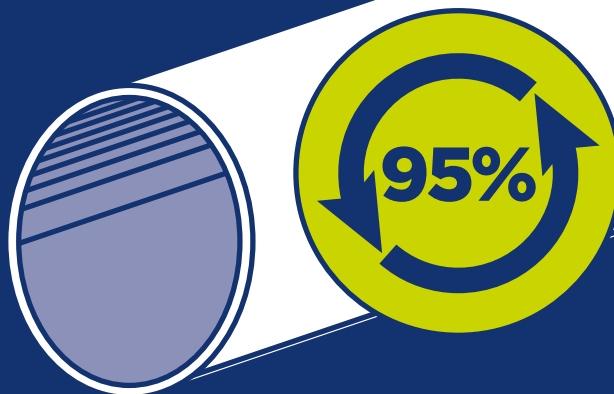


**Straight adaptors (nylon)**

code	size	pack
CC2010WH	20mm	25
CC2510WH	25mm	25

Corrugated conduit

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



**REASSURINGLY RECYCLED**

# OVAL CONDUIT AND FITTINGS

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



**Product information**

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

<b>Standard Colour</b>
WH
WH: White

Oval conduit and fittings



**Oval conduit**

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

**Oval clips**

code	size	pack
MOC1WH	13mm	100
MOC2WH	16mm	100
MOC3WH	23mm	100
MOC4WH	29mm	100
MOC5WH	32mm	100



**Oval connector**

code	size	pack
MOCC20WH	23mm	25

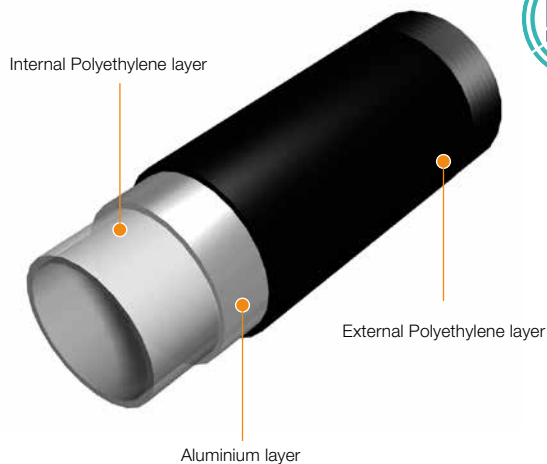
**Oval to round adaptors**

code	size	pack
MOR2WH	23mm oval/ ø20mm	50

CONDUIT SYSTEMS

# MT SUPERTUBE

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



### Product information

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

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

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

Standard Colours	
WH	BK
WH: White BK: Black	

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

**FIRE SECURITY**

**MT Supertube FR Plus**

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

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

CONDUIT SYSTEMS

Coils and lengths



**MT Supertube conduit**

code	size	pack
<b>22003WH</b>	20mm	30 x 3m
<b>22503WH</b>	25mm	30 x 3m

**MT Supertube coils**

code	size	pack
<b>22010BK</b>	20mm	1 x 100m
<b>22505BK</b>	25mm	1 x 50m

Tools



**Tube cutter**

code	size	pack
<b>20001</b>	20-25mm	1

**Stripping tool (pre-set)**

code	size	pack
<b>20002</b>	20-25mm	1

**Compact tube bender**

code	size	pack
<b>20003</b>	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

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Boxes (polycarbonate)



**Loop-in box**

code	size	pack
22011BK	2 x ø20mm KO	20
22511BK	2 x ø25mm KO	20



**Terminal box**

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



**Through box**

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



**Angle box**

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



**Tee box**

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



**4-way box**

code	size	pack
22016BK	20mm	20
22516BK	25mm	10



**Flush lid**

code	pack
20005BK	100

**MT Supertube LSOH boxes and fittings**

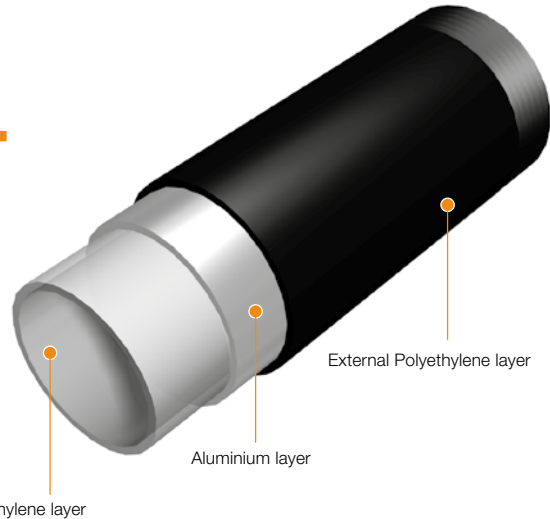
- Suitable for suspending a load of up to 3kg centrally at 60°C maximum
- Fixing centres 50.8mm fitted with M4 brass inserts
- Provision for brass earthing terminals
- Boxes comply with the current version of BS 7671 Wiring Regulations and BS 4607 where applicable
- Fittings are available in black and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

# MT Supertube

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## A TIME SAVING ALTERNATIVE TO GALVANISED STEEL CONDUIT

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



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



CONDUIT SYSTEMS

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

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

#### Galvanised steel

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

#### MT Supertube

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

The savings on this job amount to £1073.41

### 54.23% cheaper than galvanised steel

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

See page 132 for product ordering information.

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



# ALL OF OUR PVC-U PRODUCTS CAN BE RECYCLED...

Prevent PVC-U being placed into landfill by recycling our products at the end of their useful life.

