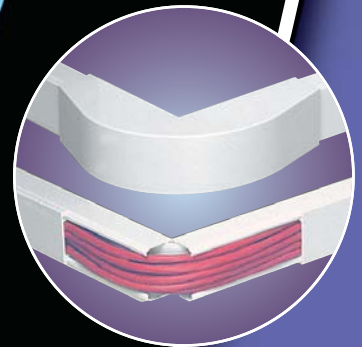
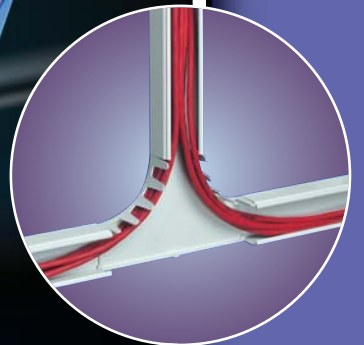
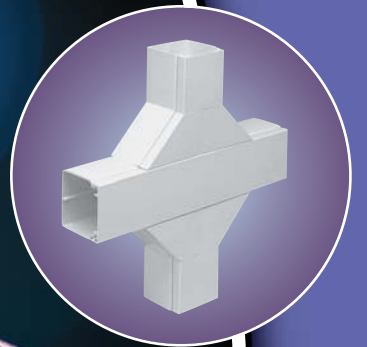
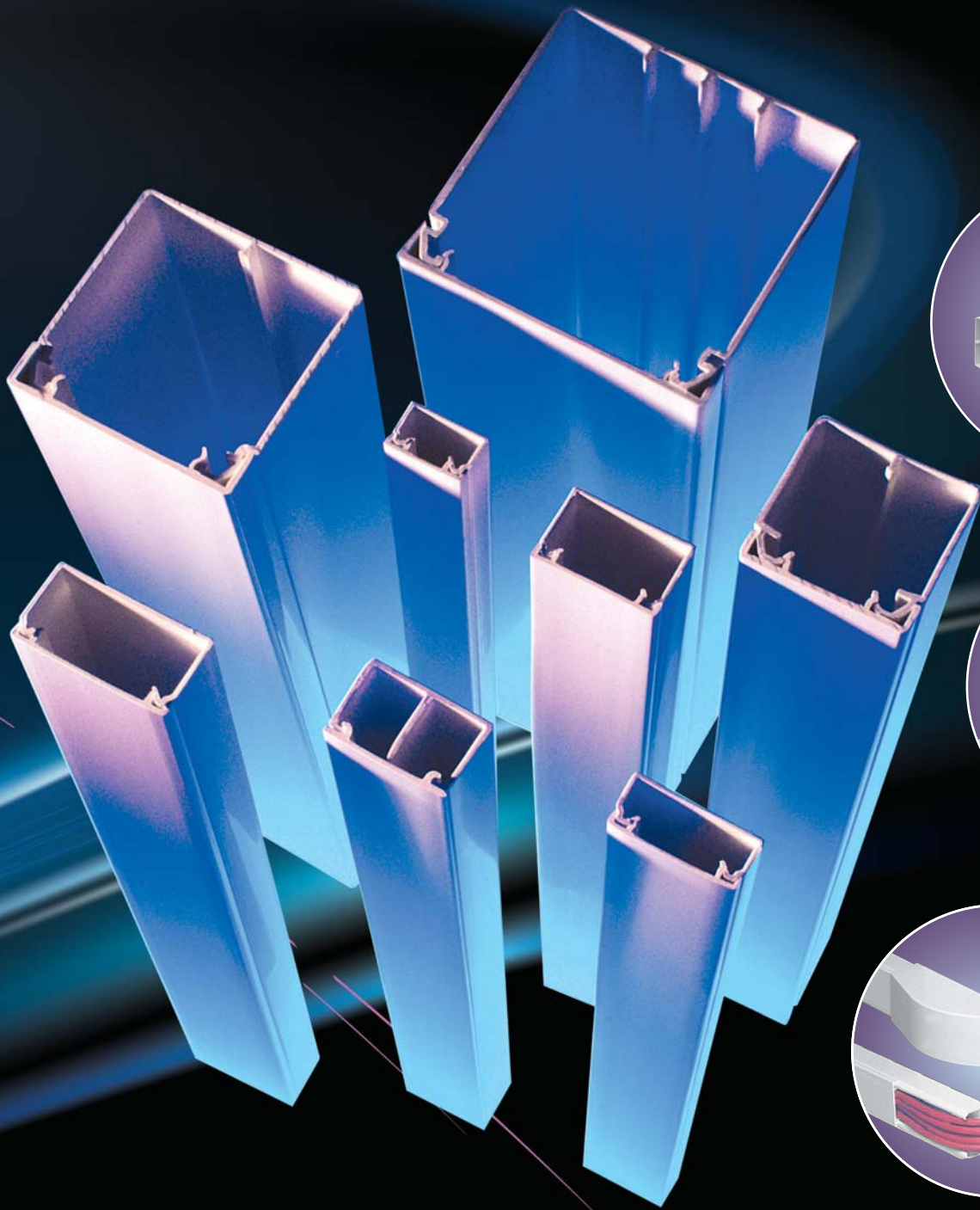


# Marshall-Tufflex

## Mini & Maxi Trunking



[www.marshall-tufflex.com](http://www.marshall-tufflex.com)



**Marshall  
Tufflex**

## MINI-TRUNKING

Mini-Trunking has been designed to match in with both the square and radius cornered surface mounted switch and socket boxes.

- Various sizes are available including three versions with a central dividing fillet.
- The body of the trunking is strong and tough and will take up irregularities in wall and ceiling surfaces with ease.
- The ingenious clip-on lid is easily removed by the contractor for maintenance or alteration of the cabling system.
- Six sizes are available in self-fixing form with double-sided adhesive tape for ease of installation.



### TECHNICAL INFORMATION

Designed to give improved appearance and security to surface cables, Marshall-Tufflex Mini-Trunking with its extensive range of fittings and dedicated accessory boxes, offers an efficient and economical solution to cable management.

#### INSTALLATION

Before installing the trunking confirm the route of the main circuits marking spurs and accessory positions.

#### MOUNTING

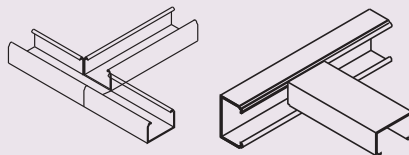
Drill oversize holes and secure at least every 375mm in low level applications using round head screws with washers. Do not over tighten to allow for thermal movement. See Material Data page 208 for Thermal Properties.

#### ACCESSORY BOXES

Select the appropriate box and remove the required knock-out, cleaning any burrs from around aperture. Snap adaptor into position on the box and place into position. Ensure trunking seats securely into adaptor. Secure the box using diagonally opposite fixing holes with No.8 countersunk screws.

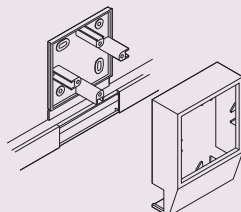
#### JOINTS

At each joint 3mm should be left for expansion. Internal bends must be mitred to ensure total enclosure of trunking. External bends should be cut square with the corner and flat angles and tees, cut the side wall of trunking for cable entry. None of the cutting is critical as the clip-on fittings have a built-in overlap for the lid and side walls.



#### SHROUDED ENTRY BOXES

Designed to enable the termination of standard accessories without loss of capacity in the trunking and avoiding the need for spurs. Place back-plate into position and secure using diagonally opposite fixing holes. Feed the cables through the trunking cover and clip box into position.



#### END CAPS

These should be secured into position by using solvent adhesive MSC3.

#### LID

On completion of the base and cable installation, starting at a convenient place, snap alternative fitting and lid into place ensuring fittings completely overlap the lid.

#### SELF-FIXING MINI-TRUNKING

To secure base of trunking remove protective film exposing 100-150mm of adhesive foam. Line up accurately and press firmly into position. Repeating the procedure until the base is installed. For long term permanence 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 the bonding performance.

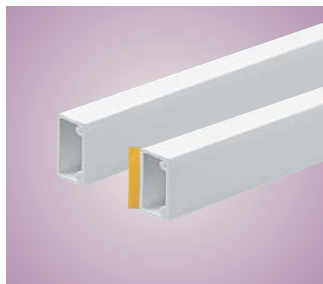
Installation in cold conditions below +5°C may affect adhesion.

Continue as for normal Mini-Trunking for the rest of the installation.

#### MINI-TRUNKING CAPACITIES

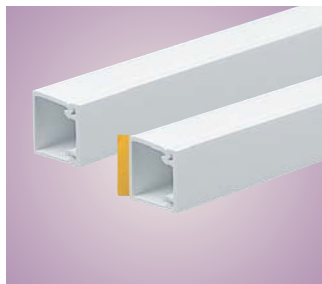
MT Ref	Size mm	45% Capacity
MMT00	10 x 8	18.5mm <sup>2</sup>
MMT0	16 x 10	42mm <sup>2</sup>
MMT1	16 x 16	77.2mm <sup>2</sup>
MMT2	25 x 16	119.7mm <sup>2</sup>
MMT3	38 x 16	198.8mm <sup>2</sup>
MMT4	38 x 25	342mm <sup>2</sup>
MMT5	50 x 25	449mm <sup>2</sup>
MMT6	38 x 38	501mm <sup>2</sup>
MMT7	75 x 16	167.4mm <sup>2</sup>

## MINI-TRUNKING continued



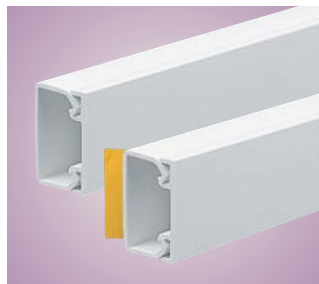
### Mini-Trunking

Prod Code	Size	Pack
MMT0WH	16 x 10mm	40 x 3m
MMT0SFWH	16 x 10mm	40 x 3m



### Mini-Trunking

Prod Code	Size	Pack
MMT1WH	16 x 16mm	30 x 3m
MMT1SFWH	16 x 16mm	30 x 3m



### Mini-Trunking

Prod Code	Size	Pack
MMT2WH	25 x 16mm	30 x 3m
MMT2SFWH	25 x 16mm	30 x 3m



### Mini-Trunking

Prod Code	Size	Pack
MMT3WH	38 x 16mm	15 x 3m
MMT3SFWH	38 x 16mm	15 x 3m



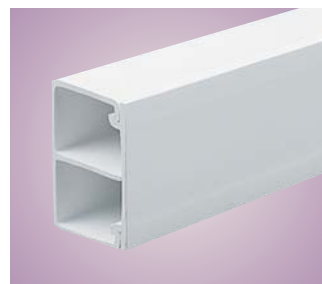
### Mini-Trunking

Prod Code	Size	Pack
MMT3CWH	38 x 16mm	15 x 3m



### Mini-Trunking

Prod Code	Size	Pack
MMT4WH	38 x 25mm	15 x 3m
MMT4SFWH	38 x 25mm	15 x 3m



### Mini-Trunking

Prod Code	Size	Pack
MMT4CWH	38 x 25mm	15 x 3m



### Mini-Trunking

Prod Code	Size	Pack
MMT5WH	50 x 25mm	12 x 3m



### Mini-Trunking

Prod Code	Size	Pack
MMT6WH	38 x 38mm	12 x 3m



### Mini-Trunking

Prod Code	Size	Pack
MMT7WH	75 x 16mm	12 x 3m

**FOR MINI DATA  
FITTINGS SEE  
COMPONENT CHART  
ON PAGES 4 & 5**

### SELF FIXING CABLE COVER

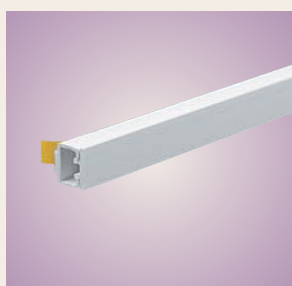
For improved appearance and security to surface cables.

Prod Code	Size	Pack
14000SFWH	29.5 x 10mm	10 x 3m
14010SFWH	41.5 x 12.5mm	10 x 3m

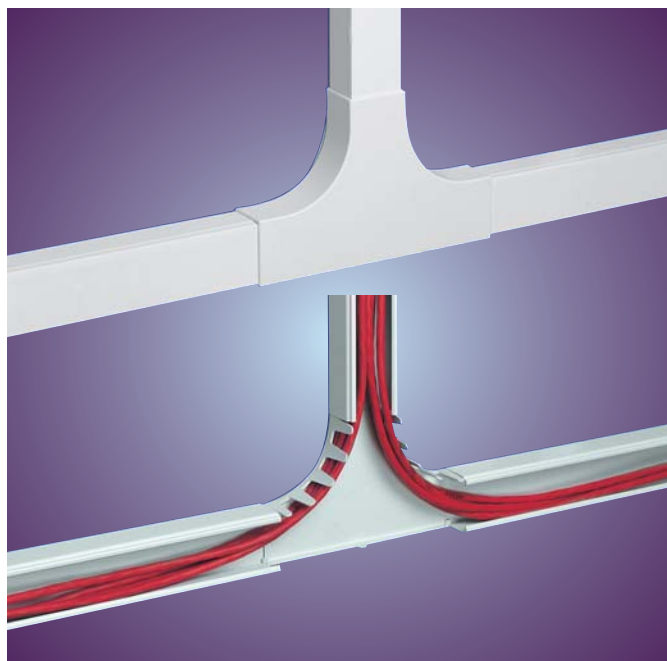


### SELF FIXING MICRO TRUNKING

Prod Code	Size	Pack
MMT00SFWH	10 x 8mm	40 x 3m



MMT4 Mini Trunking featuring Data Tee with bend radius control.





# MINI-TRUNKING continued

## MINI TRUNKING COMPONENT CHART

**MMT00SFWH**  
10 x 8mm  
Pack 40 x 3m



**MMT0WH**  
**MMT0SFWH**  
16 x 10mm  
Pack 40 x 3m



**MMT1WH**  
**MMT1SFWH**  
16 x 16mm  
Pack 30 x 3m



**MMT2WH**  
**MMT2SFWH**  
25 x 16mm  
Pack 30 x 3m



**MMT3WH**  
**MMT3SFWH**  
38 x 16mm  
Pack 15 x 3m



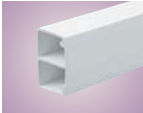
**MMT3CWH**  
38 x 16mm  
Pack 15 x 3m



**MMT4WH**  
**MMT4SFWH**  
38 x 25mm  
Pack 15 x 3m



**MMT4CWH**  
38 x 25mm  
Pack 15 x 3m



**MMT5WH**  
50 x 25mm  
Pack 12 x 3m



**MMT6WH**  
38 x 38mm  
Pack 15 x 3m



**MMT7WH**  
75 x 16mm  
Pack 12 x 3m





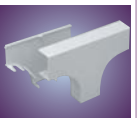







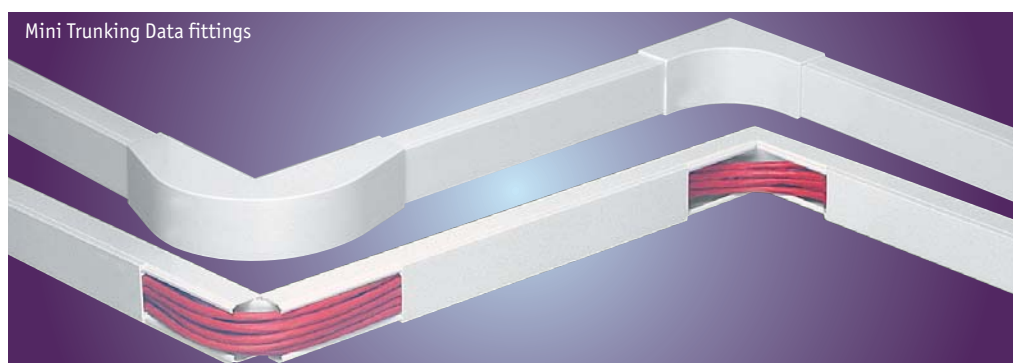
				DATA	DATA		DATA	DATA
	External Coupler	End Cap	Internal Bend	Data Internal Bend Assembly	Data Internal Bend Cover	External Bend	Data External Bend Assembly	Data External Bend Cover
MMT00SFWH	—	—	—	—	—	—	—	—
MMT0WH	—	—	—	—	—	—	—	—
MMT0SFWH	—	—	—	—	—	—	—	—
MMT1WH	TC1WH Pack 40	TEC1WH Pack 100	TIB1WH Pack 50	—	—	TEB1WH Pack 50	—	—
MMT1SFWH	—	—	—	—	—	—	—	—
MMT2WH	TC2WH Pack 40	TEC2WH Pack 100	TIB2WH Pack 30	—	—	TEB2WH Pack 30	—	—
MMT2SFWH	—	—	—	—	—	—	—	—
MMT3WH	TC3WH Pack 25	TEC3WH Pack 50	TIB3WH Pack 25	—	—	TEB3WH Pack 25	—	—
MMT3SFWH	—	—	—	—	—	—	—	—
MMT3CWH	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	TIDB4CWH* Pack 5	TEB4WH Pack 25	TEDB4WH* Pack 5	TEDB4CWH* Pack 5
MMT4SFWH	—	—	—	—	—	—	—	—
MMT4CWH	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	—	—	—	—	—	—	—	—

Offset Ceiling Tee	Angle Tee
TOCT2/1WH TOCT2/2WH Pack 10	TAT2LHWH (shown) TAT2RHWH Pack 10

**MMT2WH**  
**MMT2SFWH**  
25 x 16mm  
Pack 30 x 3m



	DATA	DATA		DATA	DATA		DATA	DATA	
Flat Bend	Data Flat Bend Assembly	Flat Bend Cover	Equal Tee	Data Equal Tee Assembly	Data Equal Tee Cover	Unequal Tee	Data Unequal Tee Assembly	Data 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	TDT4-4WH* Pack 5	TDT4-4CWH* Pack 5	TT4-1WH TT4-2WH TT4-3WH Pack 20	TDT4-2WH* Pack 5	TDT4-2CWH* 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	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—



Mini Trunking Data fittings

\*Different discounts apply.

Contact Technical Hotline 01424 856688 for advice.

**Colour Code Suffix**  
Please see Price List for colour variants.

## MINI-TRUNKING continued



### Ceiling Rose Adaptor

Prod 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.

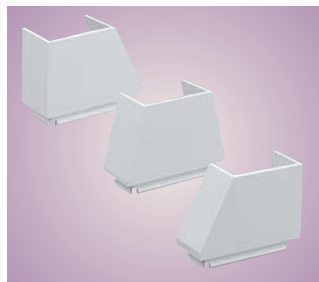


### Surface Box Adaptors

#### – MMT0/1/2/3

Prod Code	Size	Pack
TA0WH	MMT0	50
TA1WH	MMT1	50
TA2WH	MMT2	50
TA3WH	MMT3	20

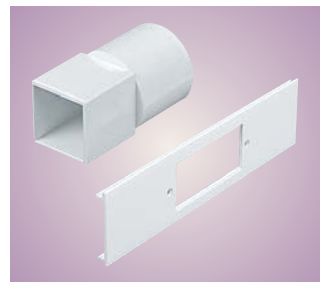
TA0 fits MMT1-KO.



### Tapered Adaptors

#### – MMT1 & 2 to fit TA3 aperture

Prod 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



### Round Adaptor

Prod Code	Size	Pack
TAC1/2WH	MMT1/20mm round	20

### Klik Socket Adaptor

Prod Code	Size	Pack
TSPA26WH	MMT6	10

## SQUARE CORNER ACCESSORY BOXES

### Fixed Lugs:

Single Gang 87 x 87mm overall.

Twin Gang 87 x 147mm overall.

Surface mounting with Knockouts for Mini-Trunking adaptors.

The depth measurement detailed is external. Deduct 2mm for internal depth.



### Single Gang Accessory Box

Prod Code	Depth	Pack
MSSB110WH	19mm	20

Entry for MMT3 LH, RH & Centre.



### Single Gang Accessory Box

Prod Code	Depth	Pack
MSSB114WH	25mm	20

Entry for MMT3 LH, RH & Centre.



### Twin Gang Accessory Box

Prod Code	Depth	Pack
MSSB214WH	25mm	10

Entry for MMT3 LH, RH & Centre.



### Single Gang Accessory Box

Prod Code	Depth	Pack
MSSB116WH	32mm	20

Entry for MMT3 LH, RH & Centre.



### Twin Gang Accessory Box

Prod Code	Depth	Pack
MSSB216WH	32mm	10

Entry for MMT3 LH, RH & Centre.



### Single Gang Accessory Box

Prod Code	Depth	Pack
MSSB120WH	44mm	10

Entry for MMT3 LH, RH & Centre.



### Twin Gang Accessory Box

Prod Code	Depth	Pack
MSSB220WH	44mm	5

Entry for MMT3 LH, RH & Centre.

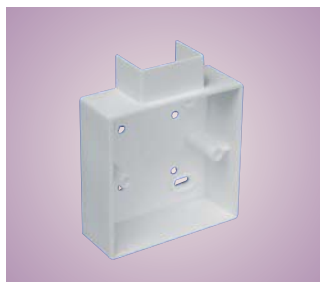
## 32mm SQUARE CORNER ACCESSORY BOXES



### MMT2 Accessory Boxes

Prod Code	Size	Pack
MSSB15WH	Single	20
MSSB16WH	Twin	10

Available Autumn 2004.



### MMT4 Accessory Boxes

Prod Code	Size	Pack
MSSB37WH	Single	20
MSSB38WH	Twin	10

Available Autumn 2004.



### MMT2 KO Accessory Boxes

Prod Code	Size	Pack
MSSB35WH	Single	20
MSSB36WH	Twin	10

Entry LH, RH & Centre.

Available Autumn 2004.



### SELF FIXING PADS

Self-fixing Pads designed to fix a Single Gang Box. Two Pads required per Single Box.

Prod Code	Size	Pack
MSFP1WH	19 x 75mm	50

## MINI-TRUNKING continued



**Single Gang Accessory Box**

Prod Code	Depth	Pack
MSSB112WH	19mm	20

Entry for MMT3 LH, RH & Centre.



**Single Gang Accessory Box**

Prod Code	Depth	Pack
MSSB115WH	28mm	20

Entry for MMT3 LH, RH & Centre.



**Twin Gang Accessory Box**

Prod Code	Depth	Pack
MSSB215WH	28mm	10

Entry for MMT3 LH, RH & Centre.

## RADIUS CORNER ACCESSORY BOXES

Fixed Lugs:  
Single Gang 87 x 87mm overall.  
Twin Gang 87 x 147mm overall.  
Surface mounting with Knockouts for Mini-Trunking adaptors.  
The depth measurement detailed is external. Deduct 2mm for internal depth.



**Single Gang Accessory Box**

Prod Code	Depth	Pack
MSSB118WH	32mm	20

Entry for MMT3 LH, RH & Centre.



**Twin Gang Accessory Box**

Prod Code	Depth	Pack
MSSB218WH	32mm	10

Entry for MMT3 LH, RH & Centre.



**Single Gang Accessory Box**

Prod Code	Depth	Pack
MSSB122WH	44mm	10

Entry for MMT3 LH, RH & Centre.



**Twin Gang Accessory Box**

Prod Code	Depth	Pack
MSSB222WH	44mm	5

Entry for MMT3 LH, RH & Centre.



**Single Gang Accessory Box**

Prod Code	Depth	Pack
MSSB20WH	32mm	20

Entry for MMT1 and MMT2 LH, RH & Centre.



**Twin Gang Accessory Box**

Prod Code	Depth	Pack
MSSB22WH	32mm	10

Entry for MMT2 LH, RH & Centre.



**2 x 1 Gang Accessory Box**

Prod Code	Depth	Pack
MSSB82WH	32mm	10

Entry for MMT2 Centre and Side.



**Single/Twin Cover Plate**

Prod Code	Depth	Pack
MSCP2WH	2mm	20
MSCP3WH	2mm	10



**Raised Single/Twin Cover Plate**

Prod Code	Depth	Pack
MSSP10WH	9mm	10
MSSP20WH	9mm	2



**Brass Earthing Terminals**

Prod Code	Rating	Pack
MET1	15 Amp	100

## SURFACE MOUNTED SINGLE AND TWIN GANG SHROUDED ENTRY BOXES

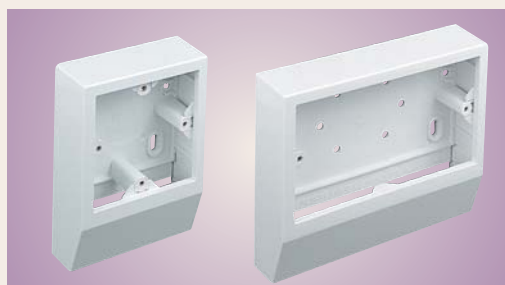
Designed for use with Marshall-Tufflex Mini-Trunking MMT2 & MMT3 (25 x 16mm and 38 x 16mm).

The extended base with side entry enables maximum space to be available within the box.

Offers speedy and neat installation particularly in the case of refurbishment where minimum disruption to the building fabric is required.

The design accepts both square and radiused corner accessories.

Overall depth 35mm. The four fixing pillars in the single gang box permit horizontal and vertical accessory mounting.



**Single and Twin Gang Accessory Box**

Prod Code	Depth	Pack
MSSB100WH	35mm	10
MSSBE100WH Schuco Standard		10
MSSB200WH	35mm	10

# MAXI-TRUNKING

The Maxi Trunking system is widely accepted and specified by both Consulting Engineers and Electrical Contractors for its inherent safety, strength and durability.

- Clip-in cable retainers cannot slip out of place
- Moulded flat angles have a gentle radius to ease the path round corners.
- Clip-in dividers are available to provide segregation as required.
- Available in white, light grey or clear.



**Maxi-Trunking – White or Light Grey**

Prod Code	Size	Pack
MTRS50WH	50 x 50mm	8 x 3m
MTRS75/50WH	75 x 50mm	4 x 3m



**Maxi-Trunking – White or Light Grey**

Prod Code	Size	Pack
MTRS75WH	75 x 75mm	4 x 3m
MTRS100/50WH	100 x 50mm	4 x 3m



**Maxi-Trunking – White or Light Grey**

Prod Code	Size	Pack
MTRS100WH	100 x 100mm	4 x 3m
MTRS150WH	150 x 150mm	2 x 3m



Colour Code Suffix Please replace the last two letters with those detailed right.	Code	Colour
	WH	White
	LG	Light Grey



## MAXI-TRUNKING continued



**External Coupler – Clip-on**

Prod Code	Size	Pack
TCCS50WH	50 x 50mm	10
TCCS75/50WH	75 x 50mm	10
TCCS75WH	75 x 75mm	10
TCCS100/50WH	100 x 50mm	10
TCCS100WH	100 x 100mm	2



**Internal Coupler**

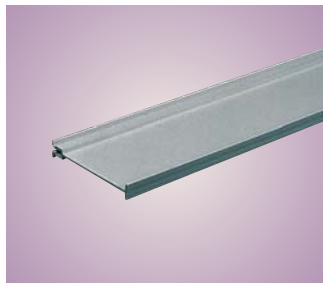
Prod Code	Size	Pack
TICS50WH	50 x 50mm	10
TICS75/50WH	75 x 50mm	10
TICS75WH	75 x 75mm	5
TICS100/50WH	100 x 50mm	5
TICS100WH	100 x 100mm	5
TICS150WH	150 x 150mm	5
Two part fitting		(5 pairs)



**Flanged Coupler**

Prod Code	Size	Pack
TFCS50WH	50 x 50mm	1
TFCS75/50WH	75 x 50mm	1
TFCS75WH	75 x 75mm	1
TFCS100/50WH	100 x 50mm	1
TFCS100WH	100 x 100mm	1
MTRS150WH Flanged couplers to order only		

## COUPLERS



**Dividing Fillet**

Prod Code	Size	Pack
MDFS50	50 x 50mm	10 x 3m
	75 x 50mm	
	100 x 50mm	
MDFS75	75 x 75mm	10 x 3m
MDFS100	100 x 100mm	10 x 3m
MDFS150	150 x 150mm	10 x 3m



**Accessory Box Dividing Fillet**

Prod Code	Size	Pack
MDFS15/3	TSS03	2
MDFS15/4	TSS04	1
MTRS100/50 only		

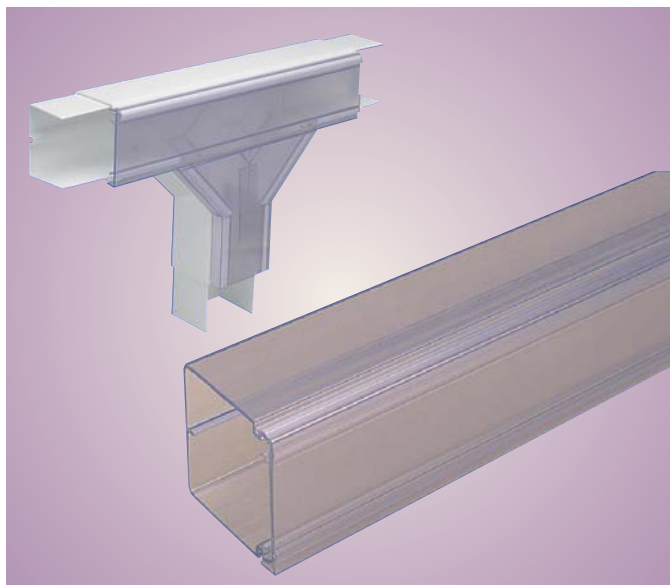


**Cable Retainer**

Prod Code	Size	Pack
TCRS50	50 x 50mm	10
TCRS75	75 x 50mm	10
	75 x 75mm	
TCRS100	100 x 50mm	10
	100 x 100mm	
TCRS150	150 x 150mm	5

## FILLETS AND CABLE RETAINERS

Clear Maxi Trunking is available.



Colour Code Suffix	Code	Colour
Please replace the last two letters with those detailed right.	WH	White
	LG	Light Grey

# MAXI-TRUNKING continued

## MAXI TRUNKING COMPONENT CHART

Contact Technical Hotline  
01424 856688 for advice.

### MTRS50WH

50 x 50mm  
Pack 8 x 3m



### MTRS75/50WH

75 x 50mm  
Pack 4 x 3m



### MTRS75WH

75 x 75mm  
Pack 4 x 3m



### MTRS100/50WH

100 x 50mm  
Pack 4 x 3m



### MTRS100WH

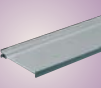






100 x 100mm  
Pack 4 x 3m



### MTRS150WH

150 x 150mm  
Pack 2 x 3m



Dividing Fillet	Cable Retainer	External Coupler	Internal Coupler	Flanged Coupler	End Cap	Internal 90° Angle Clip-on
						
<b>MDFS50</b> Pack 10 x 4m	<b>TCRS50</b> Pack 10	<b>TCCS50WH</b> Pack 10	<b>TICS50WH</b> Pack 10	<b>TFCS50WH</b> Pack 1	<b>TECS50WH</b> Pack 10	<b>TIAS50CWH</b> Pack 1
<b>MDFS50</b> Pack 10 x 4m	<b>TCRS75</b> Pack 10	<b>TCCS75/50WH</b> Pack 10	<b>TICS75/50WH</b> Pack 10	<b>TFCS75/50WH</b> Pack 1	<b>TECS75/50WH</b> Pack 5	—
<b>MDFS75</b> Pack 10 x 4m	<b>TCRS75</b> Pack 10	<b>TCCS75WH</b> Pack 10	<b>TICS75WH</b> Pack 5	<b>TFCS75WH</b> Pack 1	<b>TECS75WH</b> Pack 5	—
<b>MDFS50</b> Pack 10 x 4m	<b>TCRS100</b> Pack 10	<b>TCCS100/50WH</b> Pack 10	<b>TICS100/50WH</b> Pack 5	<b>TFCS100/50WH</b> Pack 1	<b>TECS100/50WH</b> Pack 5	<b>TIAS100/50CWH</b> Pack 1
<b>MDFS100</b> Pack 10 x 4m	<b>TCRS100</b> Pack 10	<b>TCCS100WH</b> Pack 2	<b>TICS100WH</b> Pack 5	<b>TFCS100WH</b> Pack 1	<b>TECS100WH</b> Pack 5	—
<b>MDFS150</b> Pack 10 x 3m	<b>TCRS150</b> Pack 5	—	<b>TICS150WH</b> Pack 5 (5 pairs)	<b>TFCS150WH</b> Pack 1	<b>TECS150WH</b> Pack 1	—

Colour Code Suffix	Code	Colour
Please replace the last two letters with those detailed right.	WH	White
	LG	Light Grey

\*Different discounts apply.

### MTRS50WH

50 x 50mm  
Pack 8 x 3m



### MTRS75/50WH

75 x 50mm  
Pack 4 x 3m



### MTRS75WH

75 x 75mm  
Pack 4 x 3m



### MTRS100/50WH

100 x 50mm  
Pack 4 x 3m



### MTRS100WH




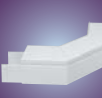
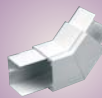

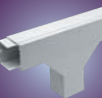














100 x 100mm  
Pack 4 x 3m

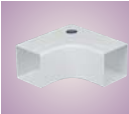
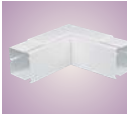

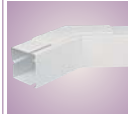







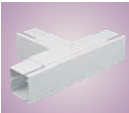







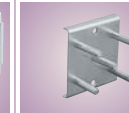
### MTRS150WH

150 x 150mm  
Pack 2 x 3m



			DATA			DATA
Flat 90° Angle Clip-on	Flat 90° Angle Moulded	Flat 90° Angle Fabricated	Data Flat 90° Angle Fabric.	Flat 135° Angle Fabric.	Flat Tee Fabricated	Data Flat Tee Gussetted
						
TFAS50CWH Pack 1	TFAS50MWH Pack 1	TFAS50FWH Pack 1	TFAS50SBWH* Pack 1	TFAS50ABFWH Pack 1	TFTS50FWH Pack 1	TFTS50GTWH* Pack 1
	TFAS75/50M WH Pack 1	TFAS75/50FWH Pack 1		TFAS75/50ABFWH Pack 1	TFTS75/50FWH Pack 1	
	TFAS75MWH Pack 1	TFAS75FWH Pack 1	TFAS75SBWH* Pack 1	TFAS75ABFWH Pack 1	TFTS75FWH Pack 1	TFTS75GTWH* Pack 1
TFAS100/50C WH Pack 1		TFAS100/50FWH Pack 1		TFAS100/50ABFWH Pack 1	TFTS100/50FWH Pack 1	
		TFAS100FWH Pack 1	TFAS100SBWH* Pack 1	TFAS100ABFWH Pack 1	TFTS100FWH Pack 1	TFTS100GTWH* Pack 1
		TFAS150FWH Pack 1			TFTS150FWH Pack 1	

		DATA					DATA	
Internal 90° Angle Moulded	Internal 90° Angle Fabricated	Data Int. 90° Angle Fabricated	Internal 135° Angle Fabricated	External 90° Angle Clip-on	External 90° Angle Moulded	External 90° Angle Fabricated	Data Ext. 90° Angle Fabricated	External 135° Angle Fabricated
								
TIAS50MWH Pack 1	TIAS50FWH Pack 1	TIAS50SBWH* Pack 1	TIAS50ABFWH Pack 1	TOAS50C WH Pack 1	TOAS50MWH Pack 1	TOAS50FWH Pack 1	TOAS50SBWH* Pack 1	TOAS50ABFWH Pack 1
—	TIAS75/50FWH Pack 1	—	TIAS75/50ABFWH Pack 1	—	—	TOAS75/50FWH Pack 1	—	TOAS75/50ABFWH Pack 1
—	TIAS75FWH Pack 1	TIAS75SBWH* Pack 1	TIAS75ABFWH Pack 1	—	—	TOAS75FWH Pack 1	TOAS75SBWH* Pack 1	TOAS75ABFWH Pack 1
—	TIAS100/50FWH Pack 1	—	TIAS100/50ABFWH Pack 1	TOAS100/50CWH Pack 1	—	TOAS100/50FWH Pack 1	—	TOAS100/50ABFWH Pack 1
—	TIAS100FWH Pack 1	TIAS100SBWH* Pack 1	TIAS100ABFWH Pack 1	—	—	TOAS100FWH Pack 1	TOAS100SBWH* Pack 1	TOAS100ABFWH Pack 1
—	TIAS150FWH Pack 1	—	—	—	—	TOAS150FWH Pack 1	—	—

			DATA					
External Edge Tee Fabricated	Internal Edge Tee Fabricated	Flat Crossover Unit Fabric.	Data Flat Cross- over Gussetted	Accessory Plate 1 Gang	Accessory Plate 2 Gang	Accessory Box 1 Gang	Accessory Box 2 Gang	Pin Rack
								
TTES50FWH Pack 1	TTIS50FWH Pack 1	TCUS50FWH Pack 1	TCUS50GTWH* Pack 1	—	—	—	—	TPRS50 Pack 1
TTES75/50FWH Pack 1	TTIS75/50FWH Pack 1	TCUS75/50FWH Pack 1	—	—	—	—	—	TPRS75/50 Pack 1
TTES75FWH Pack 1	TTIS75FWH Pack 1	TCUS75FWH Pack 1	TCUS75GTWH* Pack 1	—	—	—	—	TPRS75 Pack 1
TTES100/50FWH Pack 1	TTIS100/50FWH Pack 1	TCUS100/50FWH Pack 1	—	MTSPS1WH Pack 5	MTSPS2WH Pack 5	TSS03WH Pack 5	TSS04WH Pack 5	—
TTES100FWH Pack 1	TTIS100FWH Pack 1	TCUS100FWH Pack 1	TCUS100GTWH* Pack 1	MTSPS1WH Pack 5	MTSPS2WH Pack 5	TSS03WH Pack 5	TSS04WH Pack 5	—
TTES150FWH Pack 1	TTIS150FWH Pack 1	TCUS150FWH Pack 1	—	—	—	—	—	—

## MAXI-TRUNKING continued

### ADDITIONAL COMPONENTS



#### Reducer

Prod Code	Size	Pack
TTRS1WH	MTRS100 to MTRS100/50	1
TTRS2WH	MTRS100 to MTRS75	1
TTRS3WH	MTRS100 to MTRS75/50	1
TTRS4WH	MTRS100 to MTRS50	1
TTRS5WH	MTRS100/50 to MTRS75/50	1
TTRS6WH	MTRS100/50 to MTRS50	1
TTRS7WH	MTRS75 to MTRS75/50	1
TTRS8WH	MTRS75 to MTRS50	1
TTRS9WH	MTRS75/50 to MTRS50	1
TTRS10WH	MTRS150 to MTRS100	1
TTRS11WH	MTRS150 to MTRS75	1
TTRS12WH	MTRS150 to MTRS100/50	1



#### End Cap

Prod Code	Size	Pack
TECS50WH	50 x 50mm	10
TECS75/50WH	75 x 50mm	10
TECS75WH	75 x 75mm	5
TECS100/50WH	100 x 50mm	5
TECS100WH	100 x 100mm	5
TECS150WH	150 x 150mm	1



#### Accessory Plate

Prod Code	Size	Pack
MTSPS1WH	Single Gang	15
MTSPS2WH	Twin Gang	15

For MTRS100/50 and MTRS100.



#### Accessory Box

Prod Code	Size	Pack
TSS03WH*	Single Gang	20
TSS04WH*	Twin Gang	10

For MTRS100/50 and MTRS100.  
\*Internal depth 30mm.



#### Surface Mount Outlet Plate

Prod Code	Size	Pack
MTOP10WH	Single Gang	30

For Legrand 45 range.



#### Surface Mount Outlet Plate

Prod Code	Size	Pack
MTOP20WH	Twin Gang	20

For Legrand 45 range.



#### Spacer – 25mm

Prod Code	Size	Pack
MTRS100LID25WH		20

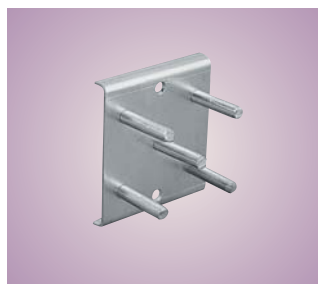
For use between Accessory Boxes.



#### Mini-Trunking Adaptor

Prod Code	Size	Pack
TTA2WH	MMT2	10
TTA4WH	MMT4	10

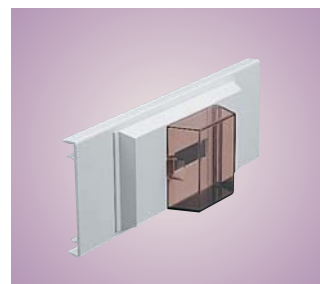
For 50mm wall height.



#### Pin-Rack

Prod Code	Size	Pack
TPRS50		1
TPRS75/50		1
TPRS75		1

Galvanised finish.



#### RCD/MCB Housing

Prod Code	Size	Pack
TAHC1WH		1

For MTRS100/50 only.



## MAXI-TRUNKING continued

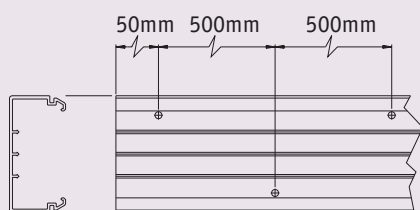
### TECHNICAL INFORMATION

The Maxi range with moulded, fabricated or clip-on fittings is ideal for encasement of cables in most situations.

This system can be easily sub-divided by utilising clip-in dividing fillets to maintain cable segregation, the total number of compartments dependable upon the type of trunking. Clip-in cable retainers maintain the cables during installation giving the benefit of a third hand in lid down situations.

#### BASE PERIMETER

The base should be secured every 500mm by drilling alternating 6mm holes either side of centre as is practical and fasten using No. 8 round head screws with washers. Avoid over tightening to permit thermal movement.



#### BASE SUSPENDED

When the trunking is to be installed suspended on brackets consideration to the number and type of cables should be given, which equates to a maximum deflection of 1%.

Cross sectional area of trunking	Max. distance between supports	
	Horizontal	Vertical
Exceeding 300 and not exceeding 1500mm <sup>2</sup>	0.5m	0.5m
Exceeding 1500 and not exceeding 2500mm <sup>2</sup>	1.25m	1.25m
Exceeding 2500 and not exceeding 5000mm <sup>2</sup>	1.5m	2.0m
Exceeding 5000mm <sup>2</sup>	1.75m	2.0m

#### Notes to Table

- The spacings tabulated allow for maximum fill of cables and the thermal limits specified in the relevant British Standards. They assume that the trunking is not exposed to other mechanical stress.
- The above figures do not apply to lighting suspension trunking, or where special strengthening couplers are used.

#### JOINTS

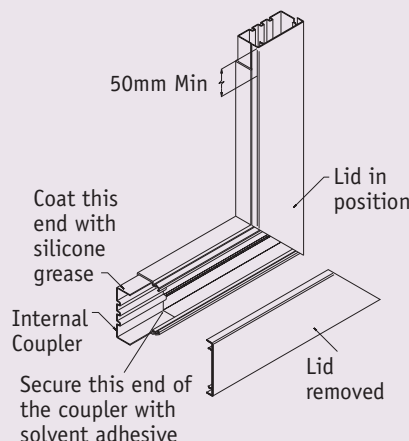
All lengths of trunking should be connected using an internal or external coupler with 3mm of movement available between consecutive lengths of trunking. The external coupler is designed for perimeter applications with 10mm of overlap on each side, the internal coupler should be cemented at one end using MSC3 solvent adhesive and the projecting end coated with MSC1 lubricant sealant. This provides a seal and facilitates thermal movement of the trunking due to change in temperature and should align with any support bracket.

#### CLIP-ON FITTINGS

The clip-on fittings are for perimeter use only and on internal and external bends, the trunking base must be mitred to ensure total enclosure of the trunking.

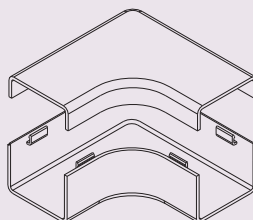
#### FABRICATED FITTINGS

Maxi-Trunking fabricated fittings are supplied with internal couplings and lids that extend beyond the base maintaining non-alignment between base and lid joints for maximum strength.



#### MOULDED FITTINGS

These are two-part fittings with a female slide fit over the trunking. For both perimeter and suspended applications.



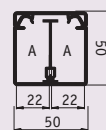
#### END CAPS

These should be cemented into position for security using solvent adhesive MSC3.

#### LIDS

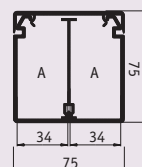
When utilising the internal coupler, especially in suspended applications, it is recommended the lid extends beyond the trunking joint by a minimum of 50mm for additional rigidity.

### DIMENSIONS AND CABLE CAPACITIES



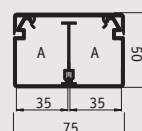
#### MTRS50

Total = 1979mm<sup>2</sup> total area 45% SF 890mm<sup>2</sup>.  
A = 911mm<sup>2</sup> total area 45% SF = 410mm<sup>2</sup>.



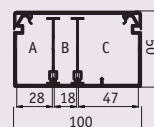
#### MTRS75

Total = 4709mm<sup>2</sup> total area 45% SF = 2119mm<sup>2</sup>.  
A = 2196mm<sup>2</sup> total area 45% SF = 988mm<sup>2</sup>.



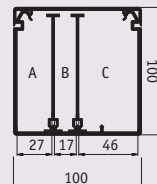
#### MTRS75/50

Total = 3032mm<sup>2</sup> total area 45% SF = 1365mm<sup>2</sup>.  
A = 1347mm<sup>2</sup> total area 45% SF = 606mm<sup>2</sup>.



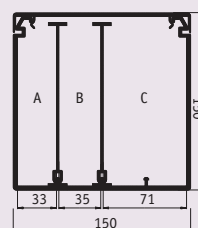
#### MTRS100/50

Total = 4040mm<sup>2</sup> total area 45% SF = 1818mm<sup>2</sup>.  
A = 1056mm<sup>2</sup> total area 45% SF 475mm<sup>2</sup>.  
B = 660mm<sup>2</sup> total area 45% SF = 297mm<sup>2</sup>.  
C = 1829mm<sup>2</sup> total area 45% SF = 823mm<sup>2</sup>.



#### MTRS100

Total = 8733mm<sup>2</sup> total area 45% SF = 3930mm<sup>2</sup>.  
A = 2375mm<sup>2</sup> total area 45% SF = 1069mm<sup>2</sup>.  
B = 1464mm<sup>2</sup> total area 45% SF = 659mm<sup>2</sup>.  
C = 4075mm<sup>2</sup> total area 45% SF = 1834mm<sup>2</sup>.



#### MTRS150

Total = 20193mm<sup>2</sup> total area 45% SF = 9087mm<sup>2</sup>.  
A = 4406mm<sup>2</sup> total area 45% SF = 1983mm<sup>2</sup>.  
B = 4728mm<sup>2</sup> total area 45% SF = 2128mm<sup>2</sup>.  
C = 9482mm<sup>2</sup> total area 45% SF = 4267mm<sup>2</sup>.

## TECHNICAL INFORMATION

This information is intended to provide the specifier or contractor guidance on all aspects of Marshall-Tufflex Cable Management products from the specification to installation.

## MATERIAL DATA

### PVC-U

Marshall-Tufflex Cable Management Products are produced 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 of Marshall-Tufflex Extra Super High Impact PVC-U

Specific Gravity	1.35-1.45
Co Efficient of Linear Expansion	$7 \times 10^{-5}/\text{m}/^{\circ}\text{C}$
Water Absorption	Negligible
Impact Resistance	See notes below
Electric Strength	To the requirements of BS4607, BS6099
	BS EN 50085, BS EN 50086
Flammability	BS4607, BS6099
	BS EN 50085, BS EN 50086
Oxygen Index	42%
Tensile Strength	492/562 kg/cm <sup>2</sup> (7,000/8,000 lb per sq in)
Insulation Resistance	To the requirements of BS4678, BS4607, BS6099
	BS EN 50085, BS EN 50086
Chemical Resistance	See notes
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 for further details.

### FIRE RESISTANCE

The materials used in Marshall-Tufflex trunking/conduit are self extinguishing and comply with the requirements of BS476 Parts 6 and 7, BS4678 Part 4 and BS6099 Section 2:2. Non-flame propagating to BSEN50085 and BSEN50086.

### 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 to 60°C. Thermal conductivity: 0.19 w/m/°C.

### IMPACT RESISTANCE

High impact resistant. The material is formulated to comply with the -5°C clause of BS4678 Part 4 (1982) Cable Trunking Standard and the -5°C Heavy Gauge Requirements of BS EN 50086.

### STANDARDS

Trunking systems are manufactured to comply with the requirements of BS4678 Part 4 (1982) where applicable. Conduit systems to comply with the requirements of BSEN50086, BS6099: 1982 and BS4607.

### POLYCARBONATE

#### 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, nor to amines.

#### MOULDINGS ONLY

Vicat softening point – ISO 306	VST/B 145°C
Flammability to UL94 @ 1.5mm	94V-2
Flammability – Oxygen index	35%
Density	1.2g/cm <sup>3</sup>
Water absorption (in water)	0.35%

### HIGH IMPACT FR ABS

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 of Marshall-Tufflex High Impact ABS

Vicat Softening Point ISO 306	80°C
Density	1.18g/cm <sup>3</sup>
Material	UL UL listed
Flammability	UL94 V-1 at 1.5mm V-0 at 2.00mm
Flammability	BS4678:PT4:1982 Pass
Water Absorption	ASTM D570 0.3%

### ALUMINIUM

Grade HE9TF: Sterling Screen Insert.  
Grade 6060TS: Sterling Series 2, PowerPole and Post, Bench Trunking Aluminium, Sterling Aluminium, Sterling XL Aluminium, Series R.  
Tensile strength: 190N/mm<sup>2</sup>  
Co Efficient of Linear Expansion:  $24 \times 10^{-6}/\text{m}/^{\circ}\text{C}$ .  
Thermal conductivity: 120w/m/°C.

## MATERIAL DATA continued

### PVC-U CHEMICAL RESISTANCE TABLE

The resistance of unplasticised PVC 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 particularly 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 information line on 01424 856688.

**NOTE:** To determine the suitability of PVC-U for external applications we strongly recommend you contact our Technical Sales Department 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	0.88S.G., aq. solution	✓	✓
	Anhydrous gas	~	~
	Anhydrous liquid	~	~
ammonium chloride		✓	✓
ammonium hydroxide		✓	✓
aniline		~	~
animal oils		✓	✓
aqua regia	Dilute	✓	✓
	Concentrated	✓	~
barium sulphate		✓	✓
beer		✓	✓
benzene		~	~
benzoyl chloride		~	~
borax		✓	✓
boric acid		✓	✓
brine		✓	✓
bromide	Traces, gas	#	~
	100% (dry gas)	~	~
	Liquid	~	~
calcium chloride	Aq. solution	✓	✓
	20% in methyl alcohol	✓	✓
calcium hydroxide		✓	✓
calcium hypochlorite		✓	✓
carbon dioxide		✓	✓
carbonic acid		✓	✓
carbon monoxide		✓	✓
carbon tetrachloride		#	~
castor oil		✓	✓
chlolic acid		✓	✓
chlorine	100% (dry gas)	✓	#
	10% (moist gas)	#	~
chlorine water	Sat. solution	#	#
chloroform		~	~
chrome alum		✓	✓
chromic acid	Plating solution	✓	✓

Concentration	Unplasticised PVC	
	20°C	60°C
cider	✓	✓
citric acid	✓	✓
copper chloride	✓	✓
copper cyanide	✓	✓
copper nitrate	✓	✓
copper sulphate	✓	✓
cupric sulphate	✓	✓
cyclohexanone	~	~
detergent, synthetic	All concentrations	✓
developers, photographic		✓
dextrin	✓	✓
dextrose	✓	✓
diaz salts	✓	✓
dichlorodifluoromethane	✓	✓
diethyl ether	~	~
emulsifiers	All concentrations	✓
emulsions, photographic		✓
ethyl acetate	~	~
ethylene glycol	✓	✓
ethylene oxide	~	~
fatty acids	✓	✓
ferric chloride	✓	✓
ferric nitrate	✓	✓
ferric sulphate	✓	✓
ferrous 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	~
	10% aq. solution	✓
	100%	~
lanoline		✓
linoleic acid		✓
linseed oil		✓
magnesium hydroxide		✓
maleic 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 (sulphuric/nitric		
	Various proportions)	#
molasses		✓
naphtha		✓
naphthalene		~
nicotine		✓

Concentration	Unplasticised PVC	
	20°C	60°C
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		✓
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	✓
	Dry	✓
sulphur dioxide	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		✓

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