



Essential cable management  
affordably priced



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



Bendex is a British brand, manufactured by cable management market leader, Marshall-Tufflex. The range includes PVC-U trunking, conduit, cable protection guard, channelling, surface boxes and IP rated sockets.

With a reputation for offering cable management trunking and accessories at competitive prices, the Bendex range is available from a nationwide wholesaler network.

We continually seek to improve efficiency and provide our customers with excellent customer service.

Our dedicated sales team can also offer support across the country for wholesaler promotions, orders, and product advice.

“ We pride ourselves on delivering competitive cable management systems to meet our customers’ needs. We are consistently building relationships with electrical distributors to bring essential cable management to electricians across the UK. ”

**Jon Chamberlain**  
Commercial Director

### Quality Assurance

Our commitment to continuous improvement has in turn ensured our commitment to quality. This coupled with our advances in technology constantly ensure that our products and services are maintained to the highest standards.

### Low Voltage Directive

Bendex products that come within the scope of the Low Voltage Directive (LVD) will be UKCA marked.

### 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.

### Colour Of Products

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



## SAME DAY ORDER & COLLECTIONS

### page

|    |  |
|----|--|
| 04 | Challenger Three Compartment Trunking System |
| 08 | Mini Trunking & Accessories                  |
| 12 | Maxi Trunking & Accessories                  |
| 16 | Conduit & Accessories                        |
| 20 | Channelling & Cable Protection Guard         |
| 21 | Loblite IP Rated Sockets                     |
| 22 | Marshall-Tufflex Product Range               |

Our collection service allows electrical distributors to collect orders between 7am and 5:30pm Monday to Friday from our depots in Watford and Manchester and between 8am and 5.30pm in Hastings.

Orders can be collected two hours after order placement from Manchester. Orders received by 5pm will be ready for collection the following day.

#### Manchester

Europa Trading Estate,  
Stoneclough Road, Radcliffe,  
Manchester  
M26 1GG

Orders placed by 12:30pm can be collected next day from Watford and Hastings.

#### Watford

Unit 4 Trade City  
Thomas Sawyer Way  
Watford  
WD18 0EZ

#### Hastings

55-65 Castleham Road,  
St Leonards-On-Sea  
TN38 9NU

Customers can also order Marshall-Tufflex products, renowned for manufacturing innovative top quality and eco-friendly PVC-U cable management solutions. See page 22 for further details.

To see the full range, go to [www.marshall-tufflex.com](http://www.marshall-tufflex.com)

#### Standards

Marshall-Tufflex is committed to excellence and is recognised by the BSI as a firm of Assessed Capability.



# Challenger Trunking System

Challenger is a three compartment data compliant trunking system compliant up to CAT 7A, suitable for office school or college environments.

This easy to install 167 x 50mm system can be installed at dado or skirting level dependent on the requirement and includes a full range of accessories. The system also features a pre-drilled base.

| System          | Complete Unit  | Trunking Base  | Centre Lid  | Chamfered Lid Top/Bottom   | Square Lid Bottom  |
|-----------------|--|--|---|--|--|
|                 |  |  |  |  |  |
| <b>System 1</b> | XT1CWH   | XT1BWH   | XT1CLWH   | *XT1TBWH   | -  |
| Pack Quantity   | 1 x 3m   | 4 x 3m   | 8 x 3m  | 8 x 3m   |  |
| <b>System 2</b> | XT2CWH   | XT1BWH   | XT1CLWH   | XT1TBWH  | XT2TBWH  |
| Pack Quantity   | 1 x 3m   | 4 x 3m   | 8 x 3m  | 8 x 3m   | 8 x 3m   |

\* Two chamfered lids are required for System 1.

## Accessory Boxes



| Code    | Description       | Pack |
|---------|-------------------|------|
| XTBB1WH | 1 Gang Outlet Box | 20   |




Depth of box is 30mm



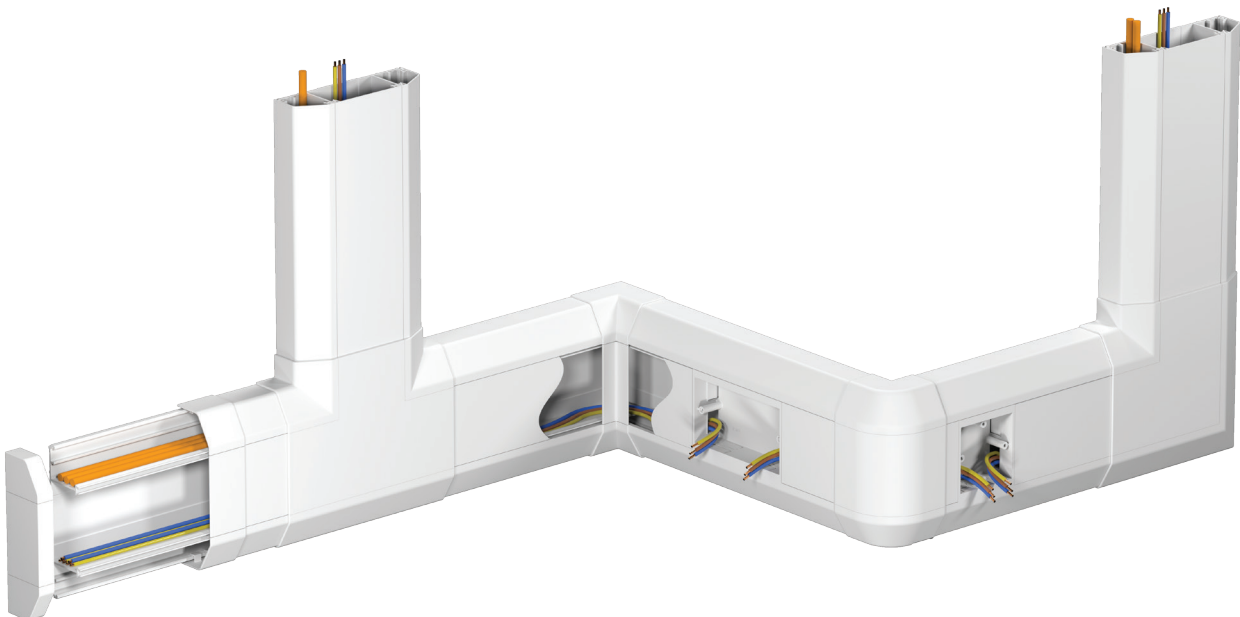
| Code    | Description       | Pack |
|---------|-------------------|------|
| XTBB2WH | 2 Gang Outlet Box | 10   |

Depth of box is 30mm



| Coupler  | End Cap  | Internal Bend  | External Bend  | Flat Angle   | Flat Tee   |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
| XT1COWH<br>2   | XT1ECWH<br>2   | XT1IBWH<br>2   | XT1EBWH<br>2   | XT1FAWH (moulded)<br>1   | XT1FTWH (moulded)<br>1   |
| XT2COWH<br>2   | XT2ECLWH (left)<br>XT2ECRWH (right)<br>2   | XT2IBWH<br>2   | XT2EBWH<br>2   | XT2FAUWH (up) (moulded)<br>XT2FADWH (down) (fabricated)<br>1                         | XT2FTUWH (up) (moulded)<br>XT2FTDWH (down) (fabricated)<br>1                         |

Internal and external bends are Cat 6 compliant.



# Challenger Trunking Technical

## 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 a clearance of 10mm is recommended above floor covering to maintain IP4X rating.

## 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

- 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 & bends

- Base joints should have a 3mm gap to allow for expansion.
- Internal and external bends are Cat 6 compliant. If a Fabricated Tee or Angle is being used then the base must be mitred 45° 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.

## 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 XT1CLWH 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.

## Cable capacity chart

All calculations allow for a 45% space factor. As there can be differences between cable sizes, Bendex recommend that cable dimensions are confirmed with the manufacturing company.

| Stranded PVC BS 7211 1.5mm <sup>2</sup> Power cable (singles) |               |          |               |          |               |          |
|---|---------------|----------|---------------|----------|---------------|----------|
|   | Compartment 1 |          | Compartment 2 |          | Compartment 3 |          |
|   | No box        | With box | No box        | With box | No box        | With box |
| Challenger System 1   | 66            | -        | 201           | 72       | 66            | -        |
| Challenger System 2   | 66            | -        | 201           | 72       | 80            | -        |
| Stranded PVC BS 7211 2.5mm <sup>2</sup> Power cable (singles) |               |          |               |          |               |          |
|   | Compartment 1 |          | Compartment 2 |          | Compartment 3 |          |
|   | No box        | With box | No box        | With box | No box        | With box |
| Challenger System 1   | 45            | -        | 137           | 49       | 45            | -        |
| Challenger System 2   | 45            | -        | 137           | 49       | 55            | -        |
| Stranded PVC BS 7211 4.0mm <sup>2</sup> Power cable (singles) |               |          |               |          |               |          |
|   | Compartment 1 |          | Compartment 2 |          | Compartment 3 |          |
|   | No box        | With box | No box        | With box | No box        | With box |
| Challenger System 1   | 34            | -        | 104           | 37       | 34            | -        |
| Challenger System 2   | 34            | -        | 104           | 37       | 41            | -        |
| Data Cable Ø5.5mm   |               |          |               |          |               |          |
|   | Compartment 1 |          | Compartment 2 |          | Compartment 3 |          |
|   | No box        | With box | No box        | With box | No box        | With box |
| Challenger System 1   | 23            | -        | 73            | 26       | 23            | -        |
| Challenger System 2   | 23            | -        | 73            | 26       | 29            | -        |
| Data Cable Ø6.0mm   |               |          |               |          |               |          |
|   | Compartment 1 |          | Compartment 2 |          | Compartment 3 |          |
|   | No box        | With box | No box        | With box | No box        | With box |
| Challenger System 1   | 20            | -        | 61            | 21       | 20            | -        |
| Challenger System 2   | 20            | -        | 61            | 21       | 24            | -        |
| Data Cable Ø6.5mm   |               |          |               |          |               |          |
|   | Compartment 1 |          | Compartment 2 |          | Compartment 3 |          |
|   | No box        | With box | No box        | With box | No box        | With box |
| Challenger System 1   | 17            | -        | 52            | 18       | 17            | -        |
| Challenger System 2   | 17            | -        | 52            | 18       | 20            | -        |
| Data Cable Ø7.0mm   |               |          |               |          |               |          |
|   | Compartment 1 |          | Compartment 2 |          | Compartment 3 |          |
|   | No box        | With box | No box        | With box | No box        | With box |
| Challenger System 1   | 14            | -        | 45            | 16       | 14            | -        |
| Challenger System 2   | 14            | -        | 45            | 16       | 18            | -        |
| Data Cable Ø8.4mm   |               |          |               |          |               |          |
|   | Compartment 1 |          | Compartment 2 |          | Compartment 3 |          |
|   | No box        | With box | No box        | With box | No box        | With box |
| Challenger System 1   | 10            | -        | 31            | 11       | 10            | -        |
| Challenger System 2   | 10            | -        | 31            | 11       | 12            | -        |

# Mini Trunking & Accessories

Mini trunking is manufactured from white PVC-U to withstand the most rigorous demands of domestic and commercial use. Available with accessories and with self adhesive backing.

This quick fit mini trunking system has been designed with speed of installation in mind.

Produced and stocked in White.

| Trunking size                        | Mini Trunking  | Self-Fixing Mini Trunking   | External Coupler   |
|--------------------------------------|--|---|--|
|                                      |  |  |  |
| <b>18mm x 9mm*</b><br>Pack Quantity  | AT18WH*<br>20 x 3m   | SFAT18WH*<br>20 x 3m  | -  |
| <b>16mm x 16mm</b><br>Pack Quantity  | MT16WH<br>20 x 3m  | SFMT16WH<br>20 x 3m   | MT16CWH<br>10  |
| <b>25mm x 16mm</b><br>Pack Quantity  | MT25WH<br>20 x 3m  | SFMT25WH<br>20 x 3m   | MT25CWH<br>10  |
| <b>38mm x 16mm</b><br>Pack Quantity  | MT38WH<br>20 x 3m  | SFMT38WH<br>20 x 3m   | MT38CWH<br>10  |
| <b>38mm x 25mm</b><br>Pack Quantity  | MT40WH<br>10 x 3m  | SFMT40WH<br>10 x 3m   | MT40CWH<br>10  |
| <b>38mm x 38mm*</b><br>Pack Quantity | MT40SWH*<br>10 x 3m  | SFMT40SWH*<br>10 x 3m   | -  |

\*No accessories available.

## Surface Boxes

Manufactured in white PVC-U and available with both round and square corners. Bendex universal boxes incorporate both conduit and mini trunking knockouts.

### 1 Gang Universal Box



### 2 Gang Universal Box


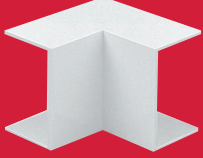
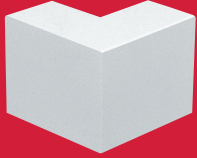




| Code    | Description                 | Pack |
|---------|-----------------------------|------|
| SB1RCWH | Round corners<br>32mm deep  | 20   |
| SB1SCWH | Square corners<br>32mm deep | 20   |

| Code    | Description                 | Pack |
|---------|-----------------------------|------|
| SB2RCWH | Round corners<br>32mm deep  | 10   |
| SB2SCWH | Square corners<br>32mm deep | 10   |





| End Cap  | Internal Angle   | External Angle   | Flat Angle   | Flat Tee   |
|--|--|--|--|--|
|  |  |  |  |  |
| -  | -  | -  | -  | -  |
| MT16ECWH<br>10   | MT16IAWH<br>10   | MT16EAWH<br>10   | MT16FAWH<br>10   | MT16TWH<br>10  |
| MT25ECWH<br>10   | MT25IAWH<br>10   | MT25EAWH<br>10   | MT25FAWH<br>10   | MT25TWH<br>10  |
| MT38ECWH<br>10   | MT38IAWH<br>10   | MT38EAWH<br>10   | MT38FAWH<br>10   | MT38TWH<br>10  |
| MT40ECWH<br>10   | MT40IAWH<br>10   | MT40EAWH<br>10   | MT40FAWH<br>10   | MT40TWH<br>10  |
| -  | -  | -  | -  | -  |



| Code    | Description  | Pack |
|---------|--------------|------|
| MTA25WH | 25mm Adaptor | 10   |



| Code    | Description          | Pack |
|---------|----------------------|------|
| MTCRBWH | 2 K.O. for MT16/MT25 | 10   |

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

# Mini Trunking Technical

## Material

PVC-U is flame retardant and self-extinguishing. It provides a 100% recyclable material with good sustainability.

## 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 self fixing mini 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 MSC.

## 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 MSC.

## 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 capacity chart

All calculations allow for a 45% space factor. As there can be differences between data cable sizes, Bendex recommend that cable dimensions are confirmed with the manufacturing company.

| Stranded PVC Power Cables - BS 6004 |      |      |      |      |
|-------------------------------------|------|------|------|------|
| Diameter                            | MT16 | MT25 | MT38 | MT40 |
| 1.5mm                               | 8    | 15   | 24   | 39   |
| 2.5mm                               | 5    | 10   | 16   | 27   |
| 4.0mm                               | 4    | 8    | 12   | 20   |
| 6.0mm                               | 3    | 6    | 9    | 16   |

| Stranded PVC Power Cables - BS 7211 |      |      |      |      |
|-------------------------------------|------|------|------|------|
| Diameter                            | MT16 | MT25 | MT38 | MT40 |
| 1.5mm                               | 7    | 13   | 21   | 35   |
| 2.5mm                               | 5    | 9    | 14   | 24   |
| 4.0mm                               | 3    | 7    | 11   | 18   |
| 6.0mm                               | 3    | 5    | 9    | 14   |

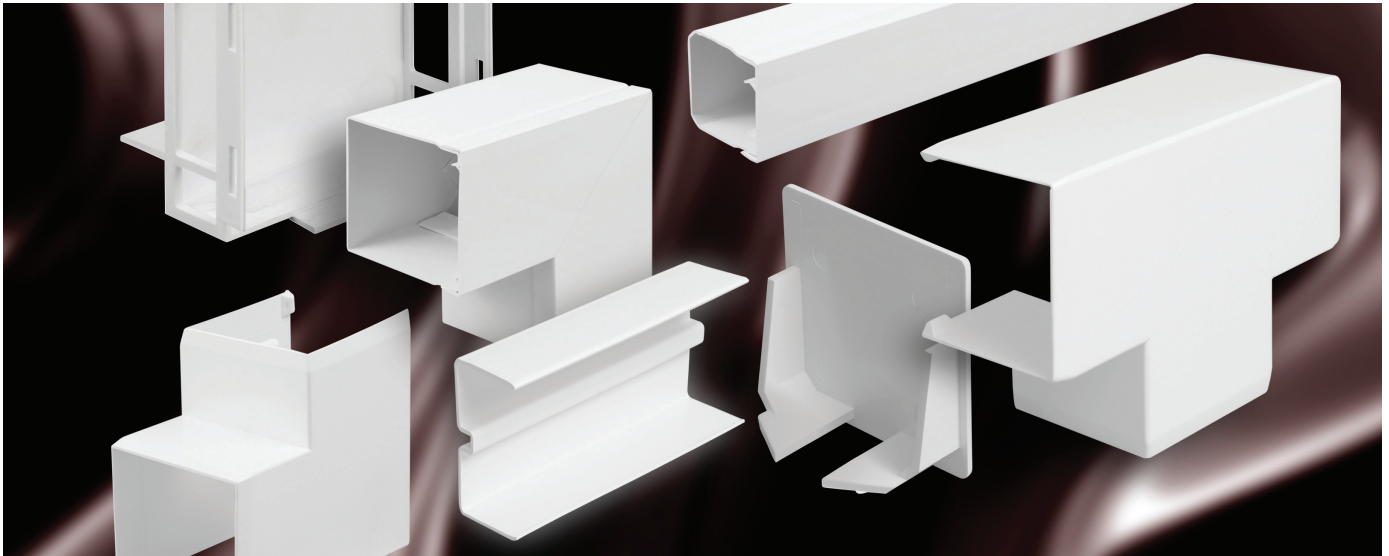
| Data Cables - BS 6004 |      |      |      |      |
|-----------------------|------|------|------|------|
| Diameter              | MT16 | MT25 | MT38 | MT40 |
| 5.5mm                 | 2    | 5    | 8    | 14   |
| 6.0mm                 | 2    | 4    | 7    | 12   |
| 6.5mm                 | 2    | 4    | 6    | 10   |
| 7.0mm                 | 1    | 3    | 5    | 8    |
| 8.4mm                 | 1    | 2    | 3    | 6    |






# Maxi Trunking & Accessories

The Bendex range of Maxi trunking and accessories are manufactured from white PVC-U.

Produced and stocked in white.

| Trunking size      | Maxi Trunking  | Coupler  | Joint Cover   | End Cap  |
|--------------------|--|--|---|--|
|                    |  |  |  |  |
| <b>28 x 28mm</b>   | CT10WH   | CT10CWH<br>external  | -   | CT10ECWH   |
| Pack Quantity      | 10 x 3m  | 10   |   | 10   |
| <b>50 x 50mm</b>   | CT30WH   | CT30CWH<br>internal  | CT30JCWH  | CT30ECWH   |
| Pack Quantity      | 6 x 3m   | 10   | 1   | 10   |
| <b>75 x 50mm</b>   | CT40WH   | CT40CWH<br>internal  | -   | CT40ECWH   |
| Pack Quantity      | 6 x 3m   | 10   |   | 10   |
| <b>75 x 75mm</b>   | CT50WH   | CT50CWH<br>internal  | -   | CT50ECWH   |
| Pack Quantity      | 6 x 3m   | 5  |   | 10   |
| <b>100 x 100mm</b> | CT60WH   | CT60CWH<br>internal  | -   | CT60ECWH   |
| Pack Quantity      | 2 x 3m   | 5  |   | 1  |
| <b>100 x 50mm</b>  | CT70WH   | CT70CWH<br>internal  | CT70JCWH  | CT70ECWH   |
| Pack Quantity      | 4 x 3m   | 10   | 1   | 1  |
| <b>150 x 150mm</b> | CT80WH   | CT80CWH<br>internal  | -   | CT80ECWH   |
| Pack Quantity      | 2 x 3m   | 5  |   | 1  |



| Internal Angle   | External Angle   | Flat Angle   | Flat Tee  | Self Fix Dividing Fillet   |
|--|--|--|---|--|
|  |  |  |  |  |
| CT10IAWH<br>moulded<br>10  | CT10EAWH<br>moulded<br>10  | CT10FAWH<br>moulded<br>10  | CT10TWH<br>moulded<br>10  | -  |
| CT30IAWH<br>moulded<br>1   | CT30EAWH<br>moulded<br>1   | CT30FAWH<br>moulded<br>1   | CT30TWH<br>moulded<br>1   | SFDF50WH<br>50mm<br>10 x 3m  |
| CT40IAWH<br>fabricated<br>1  | CT40EAWH<br>fabricated<br>1  | CT40FAWH<br>fabricated<br>1  | CT40TWH<br>fabricated<br>1  | SFDF50WH<br>50mm<br>10 x 3m  |
| CT50IAWH<br>fabricated<br>1  | CT50EAWH<br>fabricated<br>1  | CT50FAWH<br>fabricated<br>1  | CT50TWH<br>fabricated<br>1  | -  |
| CT60IAWH<br>fabricated<br>1  | CT60EAWH<br>fabricated<br>1  | CT60FAWH<br>fabricated<br>1  | CT60TWH<br>fabricated<br>1  | -  |
| CT70IAWH<br>moulded<br>1   | CT70EAWH<br>moulded<br>1   | CT70FAWH<br>moulded<br>1   | CT70TWH<br>moulded<br>1   | SFDF50WH<br>50mm<br>10 x 3m  |
| CT80IAWH<br>fabricated<br>1  | CT80EAWH<br>fabricated<br>1  | CT80FAWH<br>fabricated<br>1  | CT80TWH<br>fabricated<br>1  | -  |

# Maxi Trunking & Accessories

## Accessory Boxes



| Code      | Description              | Pack |
|-----------|--------------------------|------|
| CT70BB1WH | 1 Gang Back Box Assembly | 20   |
| CT70BB2WH | 2 Gang Back Box Assembly | 10   |



| Code  | Description         | Pack |
|-------|---------------------|------|
| SP1WH | 1 Gang Socket Plate | 20   |
| SP2WH | 2 Gang Socket Plate | 10   |

# Maxi Trunking Technical

## Material

PVC-U is flame retardant and self-extinguishing. It provides a 100% recyclable material with good sustainability.

## 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 fixed by adhesive tape to trunking 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.

Trunking lengths are connected using internal couplers as follows:

Cement one end of the internal coupler to one base using adhesive solvent MSC. 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 Fitting).
- Secure end caps using solvent adhesive MSC.

## 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, a 20mm gap should be left between the two cover ends to permit the fitting to clip to base.

## 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.

## Cable capacity chart

All calculations allow for a 45% space factor. As there can be differences between data cable sizes, Bendex recommend that cable dimensions are confirmed with the manufacturing company.

| Stranded PVC Power Cables - BS 6004 |      |      |      |      |      |      |      |      |
|-------------------------------------|------|------|------|------|------|------|------|------|
| Diameter                            | CT10 | CT30 | CT40 | CT50 | CT60 | CT70 | CT80 | CT90 |
| 1.5mm                               | 32   | 111  | 174  | 269  | 486  | 230  | 1089 | 95   |
| 2.5mm                               | 22   | 76   | 119  | 183  | 332  | 157  | 743  | 65   |
| 4.0mm                               | 16   | 57   | 90   | 139  | 252  | 119  | 564  | 49   |
| 6.0mm                               | 13   | 45   | 70   | 109  | 197  | 93   | 442  | 38   |

| Stranded PVC Power Cables - BS 7211 |      |      |      |      |      |      |      |      |
|-------------------------------------|------|------|------|------|------|------|------|------|
| Diameter                            | CT10 | CT30 | CT40 | CT50 | CT60 | CT70 | CT80 | CT90 |
| 1.5mm                               | 29   | 100  | 156  | 241  | 435  | 206  | 976  | 85   |
| 2.5mm                               | 20   | 69   | 108  | 166  | 301  | 142  | 674  | 59   |
| 4.0mm                               | 15   | 53   | 83   | 127  | 231  | 109  | 517  | 45   |
| 6.0mm                               | 12   | 42   | 65   | 101  | 182  | 86   | 409  | 35   |

| Data Cables - BS 6004 |      |      |      |      |      |      |      |      |
|-----------------------|------|------|------|------|------|------|------|------|
| Diameter              | CT10 | CT30 | CT40 | CT50 | CT60 | CT70 | CT80 | CT90 |
| 5.5mm                 | 11   | 40   | 63   | 97   | 176  | 83   | 394  | 34   |
| 6.0mm                 | 9    | 34   | 53   | 81   | 148  | 70   | 331  | 29   |
| 6.5mm                 | 8    | 28   | 45   | 69   | 126  | 59   | 282  | 24   |
| 7.0mm                 | 7    | 24   | 39   | 60   | 108  | 51   | 243  | 21   |
| 8.4mm                 | 5    | 17   | 27   | 41   | 75   | 35   | 169  | 14   |

# Conduit & Accessories

Manufactured in black and white PVC-U

**Please note:** when ordering please indicate product colour required by using the following code suffixes:  
BK (Black) WH (White).








**For example:**  
LG20**WH** - **white**  
LG20**BK** - **black**

## Round Conduit and Boxes

| Conduit Size               | Light Gauge  | Heavy Gauge  | 1 Way Terminal Box  | 2 Way Through Box  |
|----------------------------|--|--|---|--|
|                            |  |  |  |  |
| 20mm o/d<br>Pack Quantity  | LG20<br>30 x 3m  | HG20<br>30 x 3m  | CJB201WT<br>20  | CJB202WT<br>20   |
| 25mm o/d<br>Pack Quantity  | LG25<br>30 x 3m  | HG25<br>30 x 3m  | CJB251WT<br>20  | CJB252WT<br>20   |
| 32mm o/d*<br>Pack Quantity | -  | HG32*<br>10 x 3m   | -   | -  |

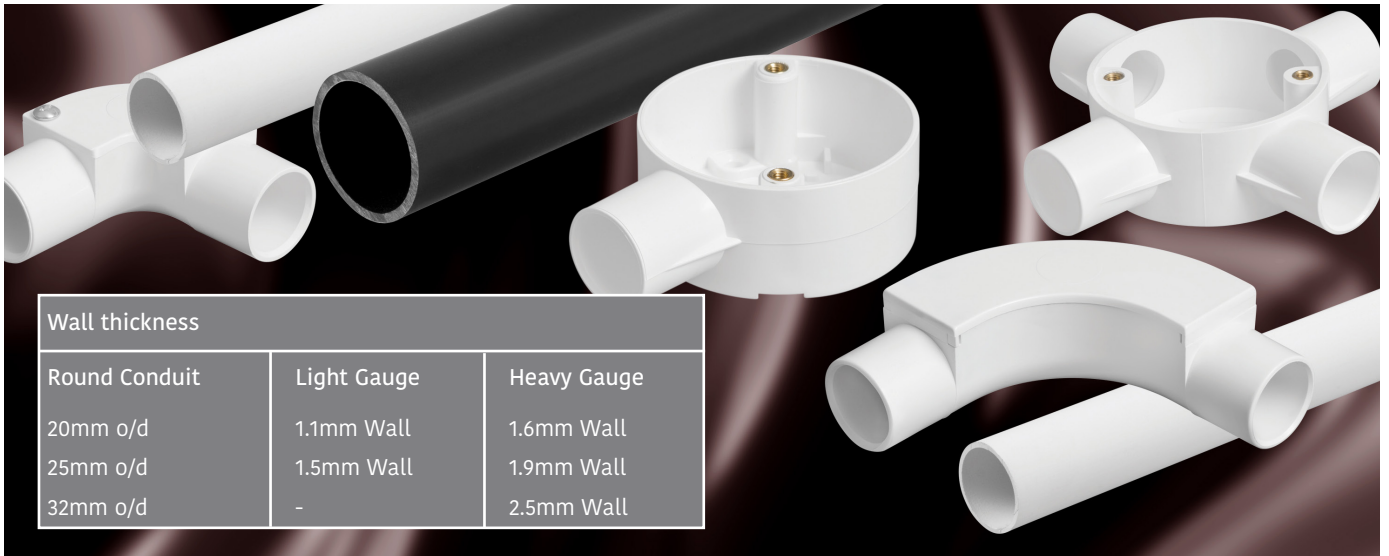
\*32mm conduit is available in white only.





## Conduit Fittings







| Conduit Size               | Inspection Bend   | Elbow Bend  | Inspection Tee  | Straight Coupler  | Expansion Coupler  | Female Adaptor  | Male Adaptor  |
|----------------------------|---|---|---|---|--|---|---|
|                            |  |  |  |  |  |  |  |
| 20mm o/d<br>Pack Quantity  | IB20<br>20  | IE20<br>20  | IT20<br>20  | SC20<br>100   | EX20<br>20   | A20MB<br>100  | A20LR<br>100  |
| 25mm o/d<br>Pack Quantity  | IB25<br>20  | -   | IT25<br>20  | SC25<br>50  | EX25<br>20   | A25MB<br>50   | A25LR<br>50   |
| 32mm o/d*<br>Pack Quantity | -   | -   | -   | SC32*<br>25   | -  | A32MB*<br>25  | -   |

\*32mm conduit is available in white only.





| 2 Way Angle Box  | 3 Way Tee Box  | 4 Way Intersection box  | Loop-In-Box (4 Knockout)   |
|--|--|---|--|
|  |  |  |  |
| CJB202WA<br>20   | CJB203WT<br>20   | CJB204WT<br>20  | LIB20KO<br>20  |
| CJB252WA<br>20   | CJB253WT<br>20   | CJB254WT<br>20  | -  |
| -  | -  | -   | -  |

| Spacer Bar Saddle   | Spring Clip Saddle  | Normal Bend   | Lock Ring   | Male Bush Threaded  | Bending Spring  |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
| SBS20<br>100  | SCS20<br>100  | NB20<br>25  | LR20 (20mm)<br>100  | MB20<br>100   | BS20L (light)<br>BS20H (heavy)<br>1   |
| SBS25<br>50   | SCS25<br>50   | NB25<br>10  | LR25 (25mm)<br>100  | MB25<br>100   | BS25L (light)<br>BS25H (heavy)<br>1   |
| SBS32*<br>50  | -   | -   | -   | -   | -   |

# Conduit & Accessories

## Oval Conduit & Fittings

Oval conduit is available in white only

| Conduit Size                  | Oval Conduit   | Oval Spring Clip  |
|-------------------------------|--|---|
|                               |  |  |
| 13mm x 8.6mm<br>Pack Quantity | OC13WH<br>50 x 3m  | -   |
| 16mm x 10mm<br>Pack Quantity  | OC16WH<br>50 x 3m  | -   |
| 20mm x 11mm<br>Pack Quantity  | OC20WH<br>50 x 3m  | OSC20WH<br>100  |
| 25mm x 11mm<br>Pack Quantity  | OC25WH<br>50 x 3m  | OSC25WH<br>100  |
| 32mm x 12mm<br>Pack Quantity  | OC32WH<br>25 x 3m  | -   |

## Circular Box Accessories



| Code | Description          | Pack |
|------|----------------------|------|
| ER20 | Extension Rings 20mm | 20   |
| ER25 | Extension Rings 25mm | 20   |



| Code | Description       | Pack |
|------|-------------------|------|
| LID1 | Circular Lid 65mm | 100  |



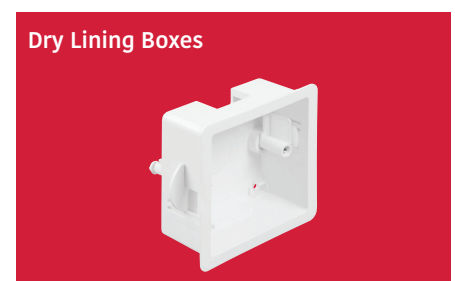
| Code | Description    | Pack |
|------|----------------|------|
| MSC  | Adhesive 250ml | 1    |

Safety datasheet regarding MSC is available on [www.marshall-tufflex.com](http://www.marshall-tufflex.com)



| Code | Description          | Pack |
|------|----------------------|------|
| LID2 | Overlapping Lid 85mm | 50   |

## Dry Lining Boxes



| Code   | Description | Pack |
|--------|-------------|------|
| BDL1WH | 1 Gang Box  | 20   |
| BDL2WH | 2 Gang Box  | 10   |

34mm depth  
6-14mm adjustment

# Channelling

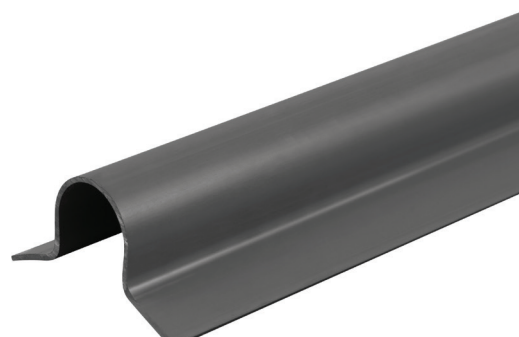
Robust PVC-U channel is the tidy and safe way to protect channelled electrical wiring routes and complete electrical wiring installations.



| Description | Product Code | Pack Quantity |
|-------------|--------------|---------------|
| 13mm x 8mm  | CH13WH       | 50 x 2m       |
| 25mm x 8mm  | CH25WH       | 50 x 2m       |
| 38mm x 9mm  | CH38WH       | 50 x 2m       |

# Cable Protection Guard

Bendex cable protection guard is the perfect solution to protect cables from impact and damage on telegraph poles and exposed brickwork. Highly shock-resistant but light in weight, it is easy to transport and install thanks to pre-drilled screw holes.



Bendex cable guard is BT specified. Manufactured in Black PVC-U.

| Description | Product Code | Pack Quantity |
|-------------|--------------|---------------|
| 19mm x 19mm | CG19BK       | 10 x 3m       |
| 25mm x 25mm | CG25BK       | 10 x 3m       |
| 40mm x 40mm | CG40BK       | 10 x 3m       |
| 55mm x 55mm | CG55BK       | 10 x 3m       |
| 80mm x 80mm | CG80BK       | 5 x 3m        |

# Conduit Technical

## Material

PVC-U is flame retardant and self-extinguishing. It provides a 100% recyclable material with good sustainability.

## 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 bends

- 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 (BXSC) 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 7671:2018 Section 522.8.3 of the Wiring Regulations. 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.
- Cold bending of 20mm and 25mm conduit should be done with correct / undamaged spring inserted and bent over knee to initiate bend. Spring should remain inserted until the desired angle is achieved. (Under no circumstance should bends be increased or decreased without correct spring inserted).

Failure to follow above procedure could increase possibility of product failure.

- Make the bend more acute than necessary to allow for PVC-U to 'recover' after bending.
- To remove the spring, twist anticlockwise (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.

## Earthing

The properties of PVC-U make it an all insulated system and the use of a separate earth cable is essential.

## Sealant

Solvent cement MSC is a slow acting solvent cement especially formulated for watertight conduit fittings. In accordance with COSHH Regulations, details of our solvents are entered in The National Poison Centre computer records. Health & Safety data sheets are available from [www.marshall-tufflex.com](http://www.marshall-tufflex.com)

# Loblite

IP rated 13A-230V sockets that are weatherproof to IP66 when in use (fully closed). Engineered to perform in demanding environments, including industrial buildings, garages, farms, gardens, swimming pool areas, wherever exposure to dust or water may be encountered.



| Code       | Colour     | Pack |
|------------|------------|------|
| LOBSGSKTWH | White      | 1    |
| LOBSGSKTLG | Light Grey | 1    |

## Loblite Technical

**IP Ratings Explained.** An IP (ingress protection) number is used to specify the environmental protection of enclosures around electrical equipment which is determined by specific tests. The IP number is composed of two numbers, the first referring to the protection against solid objects and the second against liquids.

| First Digit | Solid Protection  |
|-------------|---|
| 0           | No protection   |
| 1           | Protected against solid objects up to 50mm e.g. accidental touch by hands |
| 2           | Protected against solid objects up to 12mm e.g. fingers                   |
| 3           | Protected against solid objects up to 2.5mm e.g. tools and wires          |
| 4           | Protected against solid objects up to 1mm e.g. wires, nails etc           |
| 5           | Protected against dust limited ingress, not harmful deposits              |
| 6           | Totally protected against dust  |

IP66 range  
(height x width x depth)

1 gang 109 x 75 x 90mm

| Second Digit | Liquid Protection   |
|--------------|---|
| 0            | No protection   |
| 1            | Protected against vertically falling drops of water e.g. condensation                               |
| 2            | Protected against direct sprays of water up to 15° from the vertical                                |
| 3            | Protected against direct sprays of water up to 60° from the vertical                                |
| 4            | Protected against water splashed from all directions, limited ingress permitted                     |
| 5            | Protected against low pressure jets of water from all directions, limited ingress permitted         |
| 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 30 mins |
| 8            | Protection against long periods of immersion under pressure   |

# Additional product ranges



**Our customers can also order Marshall-Tufflex products, renowned for being innovative top quality and eco-friendly cable management solutions.**

Marshall-Tufflex is the UK market leader in the manufacture of cable management solutions offering well-designed, hard-wearing and installer-friendly solutions.

The popular Sterling and Odyssey ranges have been among the market's best-selling PVC-U trunking solutions in recent years thanks to versatility, range of fittings and ease of installation.

Trunking systems in steel, aluminium and GRP together are also available along with Powerpoles/Posts for island locations and a comprehensive range of underfloor to desk products developed for fast and adaptable installation.

Marshall-Tufflex is well known for innovative cable management solutions. Time-saving solutions such as quick-fit Wire Basket, MT Supertube and punched trunking and Firefly fire clips are especially popular.

## FIREFLY FIRE SAFETY CLIPS

Saving lives in the event of a fire



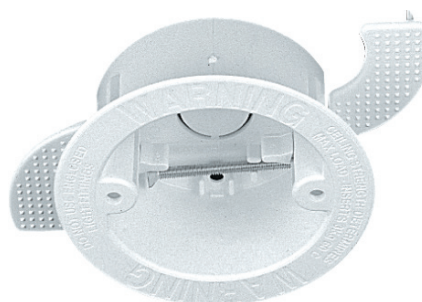
## PUNCHED MINI TRUNKING



White mini trunking lengths are manufactured using over **95%** recycled material.



## CIRCULAR DRY LINING BOXES



## ODYSSEY



**REASSURINGLY RECYCLED**

Odyssey trunking built up profile is manufactured using 63% recycled material.

COMPLIANT UP TO  
**...CAT 7A...**

## DDA COMPLIANT BOXES FOR VISUAL IMPAIRMENT



## STERLING CURVE



COMPLIANT UP TO  
**...CAT 7A...**

**REASSURINGLY RECYCLED**

White Sterling Curve built up profiles are manufactured using the following percentages of recycled material:

Profile 1 **66%** Profile 2 **60%**



Sterling Profile 1



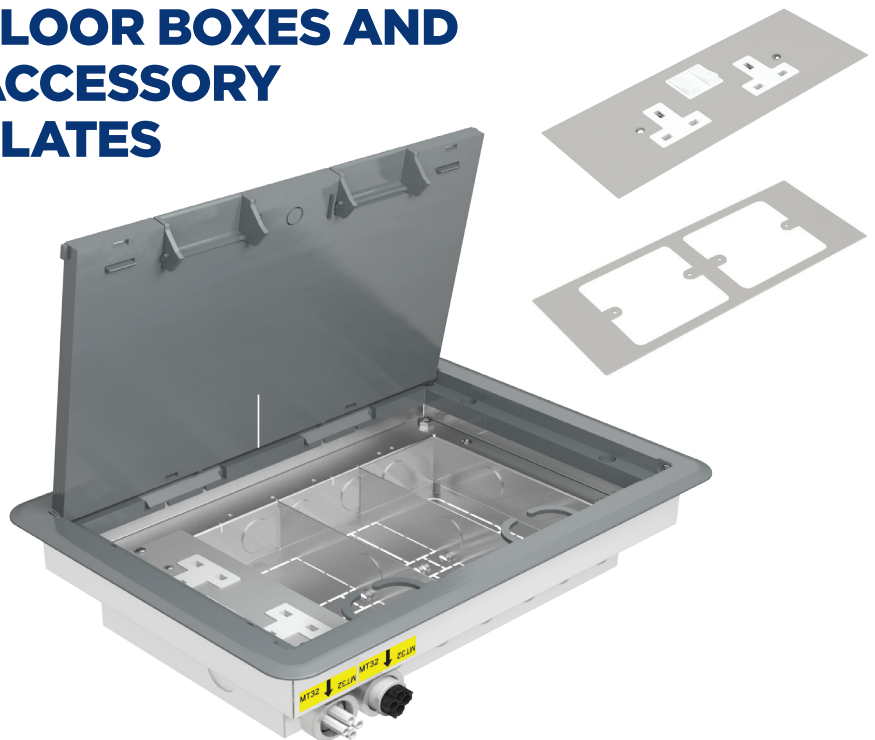
Sterling Profile 2

## FAST COUPLING WIRE BASKET



**4**  
SECONDS

## FLOOR BOXES AND ACCESSORY PLATES





The Bendex range is manufactured by cable management market leader Marshall-Tufflex

Marshall-Tufflex Ltd  
55-65 Castleham Road  
St Leonards on Sea  
TN38 9NU

Phone: 01424 856600  
Email: [sales@marshall-tufflex.com](mailto:sales@marshall-tufflex.com)  
[www.marshall-tufflex.com/bendex](http://www.marshall-tufflex.com/bendex)