



# MDM150 Fire-Rated Cable Transit

Cable transit device consisting of heavy gauge steel shell with self-adjusting intumescent liners to allow cables to pass through fire-rated bulkheads and decks on ships while providing a maintenance-free alternative to traditional cable transits in non-watertight divisions.

### Product Features

- Tested to IMO FTP Code 2010, Annex 1, Part 3 (Class A-0 through A-60, Bulkheads and Decks)
- Most cost effective solution for new cable installations
- Flexible, self-sealing intumescent pads accommodate vibration and allow for easy addition and removal of cable
- Modular units can be installed together with available gang plates
- Rapid intumescent expansion under fire conditions quickly seals off the path for fire, gases, and smoke
- Allows 0 to 100% visual fill of cables
- Empty devices can be installed for future use
- Maximizes volume of cable that can be installed into a given space while reducing the overall footprint
- Protection of cable jacketing and insulation materials
- Resistant to aging and weathering
- Single Plate Kit (Catalog Number MDM150C) for use in A-0 through A-60 Aluminum Divisions
- Military-grade fabric sealing boot provides supplemental sealing to meet DNV requirements

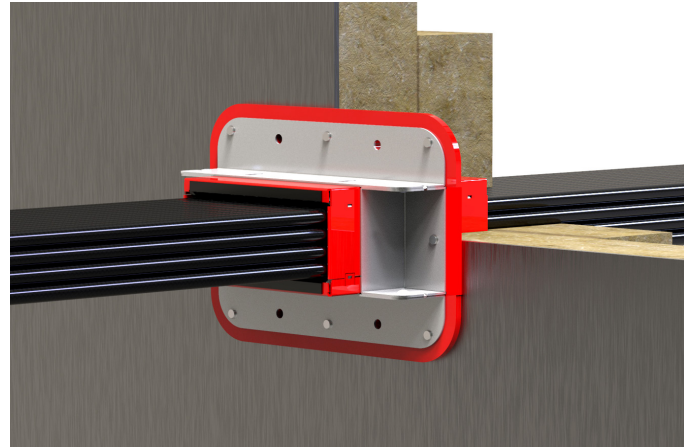
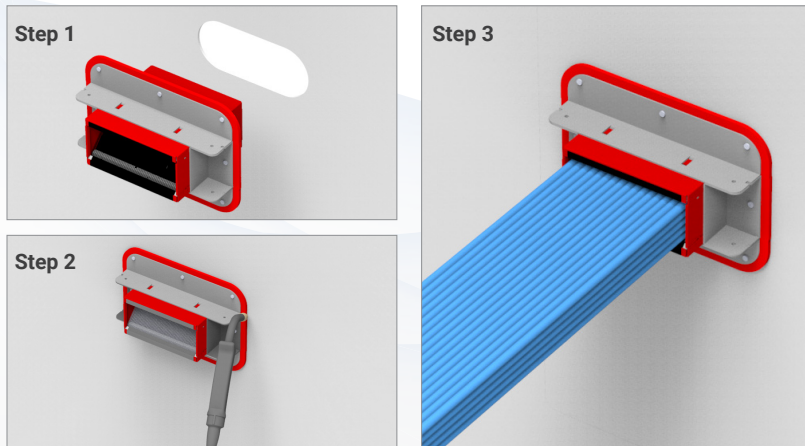
### Installation Instructions

General Notes: Read Safety Data Sheets (SDS) and product label for safe handling. For further information regarding installation requirements, please refer to Installation Sheet Nos. ZIS1079, ZIS1291, ZIS1211, ZIS1212 and the corresponding Type Approvals.

Step 1: Cut an opening in the bulkhead or deck.

Step 2: Insert device(s) through opening and secure the plate by means of symmetrically spaced stitch welds, stainless steel screws or stainless steel nuts and bolts.

Step 3: Install cables through transit.



### PHYSICAL PROPERTIES - DEVICE

|                          |  |
|--------------------------|--|
| Shell Composition        | 1.5 mm Thick (0.059 in.) Galvanized Steel                        |
| Flange Composition       | Mild Steel   |
| Powder Coating           | Marine-Grade   |
| Physical Dimensions      | 75 mm x 150 mm x 150 mm (3" x 6" x 6")                           |
| Cable Loading Area       | 69 cm <sup>2</sup> (10.7 sq. in.)<br>Max. 44 mm (1.75 in.) diam. |
| Expansion Begins         | 160°C (320°F)  |
| Expansion Volume         | 800%   |
| In Service Temperature   | -23°C (-10°F) to 49°C (120°F)                                    |
| Storage Temperature      | <49°C (120°F)  |
| Shelf Life               | No Limit   |
| STC Rating (ASTM E90-09) | 42 (*Relates to Specific Construction)                           |

### PHYSICAL PROPERTIES - SEALING BOOT

|             |   |
|-------------|---|
| Composition | High Temperature, Flame Retardant Silicone Rubber Coated Fabric |
|-------------|---|

\*Continuous division achieved STC of 43

### Third Party Approvals Maintenance



## MDM150 Fire-Rated Cable Transit

### Limitations

This product has been designed to be safe with plastics. It has been used extensively and successfully with various types of plastic pipes, tubes, and plastic cable insulations. Variations in these materials, however, make it impossible to guarantee compatibility. STI strongly recommends that the user consults with the pipe, tubing, or cable manufacturer in question regarding any known sensitivities or potential restrictions before applying this product.

### Maintenance

Maintenance free. Observed damage can be repaired per the original approved design.

### ORDERING INFORMATION

| Catalog Number | UPC Number   | Description  | (UOM) Qty. | Case Qty. | Weight (Each)        |
|----------------|--------------|--|------------|-----------|----------------------|
| MDM150A        | 730573400050 | Marine 150 Single Solid Plate Kit with One (1) Device                                | 1          | 1         | 3.29 kg (7.26 lbs)   |
| MDM150B        | 730573400067 | Marine 150 Four-Gang Solid Plate Kit with Four (4) Devices                           | 1          | 1         | 8.41 kg (18.55 lbs)  |
| MDM150C        | 730573400104 | Marine 150 Single Solid Plate Kit with One (1) Device –<br>For Aluminum Divisions    | 1          | 1         | 2.00 kg ( 4.5 lbs)   |
| MDM150D        | 730573400111 | Marine 150 Two-Gang Solid Plate Kit with Two (2) Devices                             | 1          | 1         | 5.05 kg (11.13 lbs)  |
| MDM150F        | 730573400135 | Marine 150 Three-Gang Solid Plate Kit with Three (3) Devices                         | 1          | 1         | 7.03 kg (15.49 lbs)  |
| MDM150G        | 730573400142 | Marine 150 Six-Gang Solid Plate Kit with Six (6) Devices                             | 1          | 1         | 10.92 kg (24.07 lbs) |
| MDM150Y        | 730573400081 | Marine 150 Single Solid Plate Kit with One (1) Device –<br>For DNV Requirements      | 1          | 1         | 3.49 kg (7.70 lbs)   |
| MDM150Z        | 730573400098 | Marine 150 Four-Gang Solid Plate Kit with Four (4) Devices –<br>For DNV Requirements | 1          | 1         | 9.12 kg (20.10 lbs)  |
| MDMBOOT        | 730573400913 | Marine Fire-Rated Cable Transit Single Split Boot –<br>For DNV Requirements          | 1          | 1         | 0.45 kg (1.00 lbs)   |