3M 2178-ML/S Series Fiber Optic Splice Case Systems



The $3M^{TM}$ 2178 Fiber Optic Splice Case family has always given you great protection for fiber optic connections. Now, the addition of $3M^{TM}$ 2178-ML/S Series Fiber Optic Splice Cases adds more capabilities to the family.

More chemical-resistant

The 2178-ML/S Splice cases consist of a tough chemicalresistant material and a new gasket seal that make them the ideal splice case for outside plant, underground, aerial, pedestal and direct buried applications.

Meets your changing network needs

The 2178-ML/S series is designed with larger and smaller interchangeable closure halves so you can select the size case that meets your needs today, but with the flexibility to expand for the future. Cable ports and space for trays can be added at reentry with the 3MTM 2181-ML/S Cable Addition Kit.

The ease of installation is unsurpassed, requiring no special tools or complicated training procedures. The closures are easily reenterable to allow access to the splices.

The ultimate protection for fiber optic connections

The 2178-ML/S series feature a tough, rigid non-filled case, tested under real-world conditions, that stands up to even the most severe conditions of moisture, vibration and extreme temperatures. The closure will withstand up to 200 pounds (90.7 kg) compression.

Design elements of the 2178-ML/S series include changes to improve the cable strain relief and a movable tray support. The closures hold cables of varying sizes and provide flexibility to add ports on both ends with the cable addition kit.

Features	Benefits	
Constructed of a highly chemical-resistant material	Use in buried applications	
Gasket seal	Easy reentry and reusable seal	
Unique strength member clamp assembly	Prevents cable sheath movement with temperature changes	
Several sizes with interchangeable parts	Expandable system to fit capacity and space requirements	
Multiple cable entry options	Butt or in-line configuration for splicing	
No special tools required	Easy installation and reentry	
Non-filled closure	No compound required; easier reentry	
Includes External Ground Isolation Kit	Isolated grounding capability	
Pressurization Valve	Provides ability to flash test	
Varying cable port sizes	Accommodates all common trunk and feeder cable sizes	
Expandable from two cable entries per end up to eight	Add cable with minimum disturbance; eliminates splice rebuilding when adding lines	



3M[™] 2178-S case mounted on strand.



Gasket Kit

2



2178-MS



2178-MS FiberOptic Splice Case



Dimensions Shown: Inches (Centimeters)

5

2178-MLS Fiber Optic Splice Case



2178-MLL



2181-MLSCable Addition Kit (Gasket is factory installed.) 10



8

2198/2199 Mounting Brackets 11

External Grounding Insert Kit





13





Dimensions Shown: Inches (Centimeters)

12 Tray Supports





3M[™] 2178-ML/S Series Splice Case System Ordering Information

2178-MS			Min. Order
	Splice case; small cover, small base, for low fiber count.Includes sealing gasket and 2 external ground units (EGI Kit)	1 kit/case	1 kit
2178-MLS	Splice case; large cover, small base, for high fiber count. Includes sealing gasket and 2 external ground units (EGI Kit)	1 kit/case	1 kit
2178-MLL	Splice case; large cover, large base, for high fiber count with additional base storage for buffer tubes. Includes sealing gasket and 2 external ground units (EGI Kit)	1 kit/case	1 kit
2181-MLS	Cable Addition Kit for adding 2 additional cable entry ports to each end of a 2178-MS, MLS, or MLLsplice case. Includes sealing gasket and 2 external ground units (EGI Kit)	1 kit/case	1 kit
3M [™] 2178-MLS Series Splice	Case Accessories		
2172	Strength Member Clamp for fiber cable clamps strength member to cable sheath	100/case	100 each
2178-EGI	External Ground Isolation Kit	5/case	5 each
2178-LS / GSKT	Gasket for 2178-ML/S Series Fiber Optic Splice Cases	10/case	10 each
2178-LTS	Tray Support for Large Cover applications. Tray is raised to allow additional buffer storage in base.	4/case	4 each
2178-STS	Tray Support for Small Cover applications. Tray is flat to allow maximum tray storage area.	1/case	4 each
2178-LTOP	Large Cover. Converts a 2178-MS to a 2178-MLS when additional tray space is needed after initial installation	1/case	1 each
2181-B Fiber Optic Double Butt Adapter Kit	Contains bolts for installation of two 2181-MLS Cable Addition Kits	1 kit/case	1 kit
2181-C Triple Adapter Kit	Contains bolts for installation of three 2181-MLS Cable Addition Kits	1 kit/case	1 kit
Mounting Hardware Accessori	ies		
2183 Universal Hanger Bracket	Hardware for aerial installation	1/case	1 kit
2198 Mounting Bracket	Hardware to mount 2178-MS or 2178-MLS to wall or pole	1 kit/case	1 kit
2199 Mounting Bracket	Hardware to mount 2199-MLLto wall	1 kit/case	1 kit
Scotchlok™ 4460-D/FO Shield Bond Connector Assembly	Provides grounding and strength member clamp	100/case	100 each

Important Notice

All statements, technical information, and recommendations related to Seller's products are based on information believed to be reliable, but the accuracy or completeness thereof is not guaranteed. Before utilizing the product, the user should determine the suitability of the product for its intended use. The user assumes all risks and liability whatsoever in connection with such use.

Any statements or recommendations of the Seller which are not contained in the Seller's current publications shall have no force or effect unless contained in an agreement signed by an authorized officer of Seller. The statements contained herein are made in lieu



Telecom Systems Division

6801 River Place Blvd. Austin, TX 78726-9000 800/426 8688 FAX 800/626 0329 http://www.mmm.com/telecom of all warranties, expressed or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose which warranties are hereby expressly disclaimed.

SELLER SHALL NOT BE LIABLE TO THE USER OR ANY OTHER PERSON UNDER ANY LEGAL THEORY, INCLUDING BUT NOT LIMITED TO NEGLIGENCE OR STRICT LIABILITY, FOR ANY INJURY OR FOR ANY DIRECT, INDIRECT, INCIDENTAL OR DAMAGES SUSTAINED OR INCURRED BY REASON OF THE USE OF ANY OF THE SELLER'S PRODUCTS.



Litho in USA. © 3M 1997 80-6109-3881-5