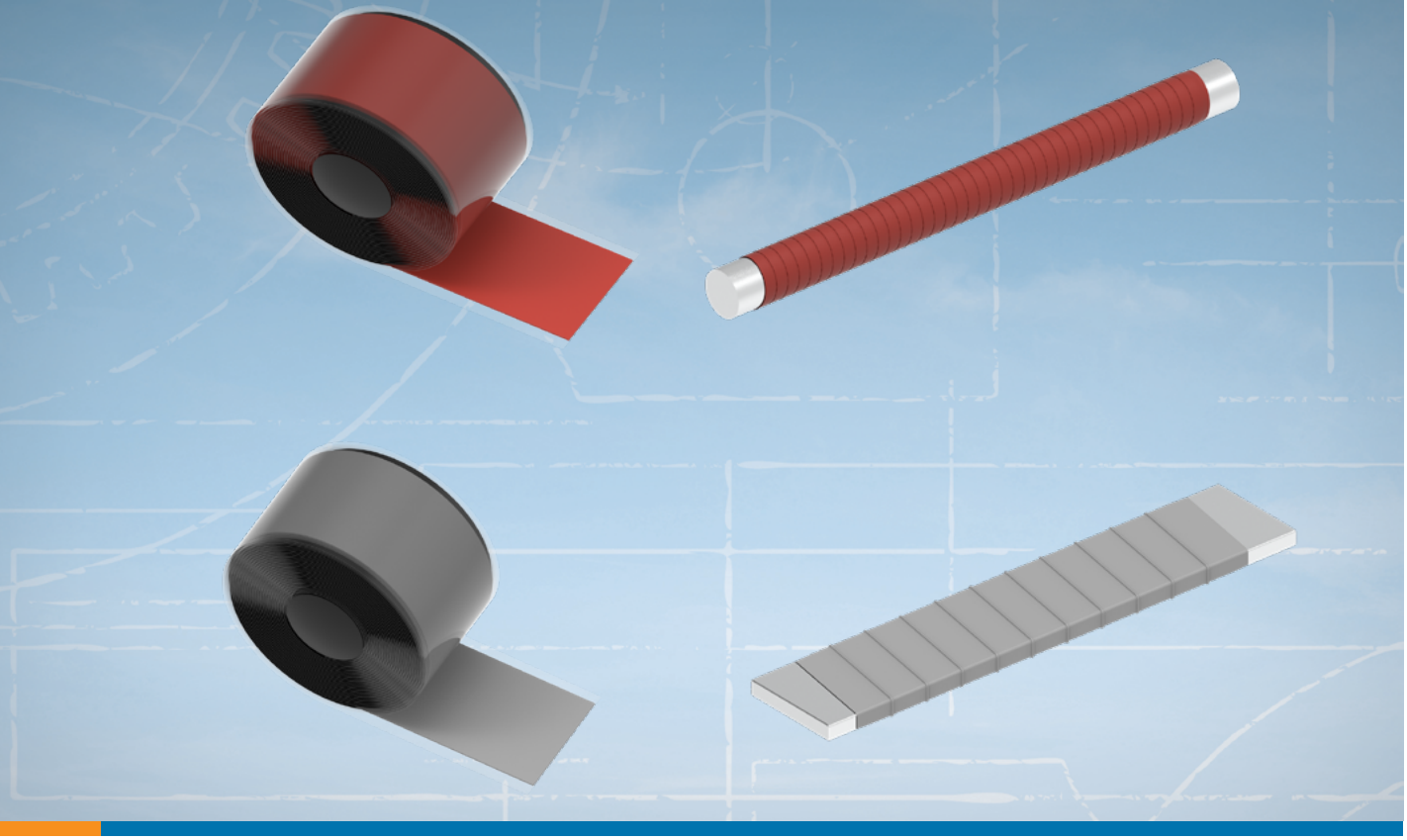

MEDIUM VOLTAGE FUSION TAPE

WILDLIFE AND ASSET PROTECTION PRODUCTS

KEY FEATURES

- Compatible with all TE's Raychem MV insulation enhancement system
- Suitable for Indoor and Outdoor applications
- Non-tracking properties
- Continuous operating temperature up to 90°C

TE Connectivity's (TE) Raychem medium voltage fusion tape (MVFT) is a self amalgamating tape, which provides insulation enhancement and protection against accidentally induced discharge. MVFT is designed to combine the integrity of a silicone polymer with the versatility of a wraparound product.

MVFT is quick and easy to install. Upon application the tape amalgamates the overlapped layers together, producing a complete seal. A single layer of MVFT, two-thirds overlapped, will provide AC voltage withstand (flashover protection) to at least 15 kV increasing to 35 kV if a second layer is applied.

Although MVFT will stick to itself and other insulating materials, it will not adhere to metal or porcelain allowing easy removal for maintenance.

MVFT offers a simple and effective solution to the problems of retrofit insulation of busbars particularly where existing equipment cannot be dismantled. It can be used for indoor and outdoor applications and is easily installed over a wide variety of shapes including complex connections.

Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.

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Medium Voltage Fusion Tape MVFT





TE's wildlife and asset protection products and systems of tubes, tapes, sheets, pre-formed covers and barriers provide a proven, cost-effective and easy-to-install solution to bird, animal and weather related outages.

PRODUCT PERFORMANCE

Test		
AC Dry Withstand/1 min.	15 kV (one insulation layer) 35 kV (two insulation layers)	
Loading Cycleing 30 days at 130°C	No Deformation or Splitting	
Low Temperature Install at 0°C	Installable without Difficulty	
Physical		
Key Material Properties	**Test Method**	**Required**
Accelerated Aging 168 hours at 150°C Tensile Strength	ASTM D412	> 1,000 psi (6.8MPa)
Accelerated Aging 168 hours at 150°C Ultimate Elongation	ASTM D412	> 450%
Low Temperature Flexibility 4 hrs.- 40°	ASTM D2671	No cracking
Electrical		
Dielectric Strength (3.4 mm thickness)	ASTM D149	>120 kV/cm (300 V/mil)
Tracking and Erosion Resistance	ASTM D2303	No tracking, erosion to top surface or flame. Failure after: 1 hr. at 2.5 kV 1 hr. at 2.75 kV 1 hr. at 3.0 kV 20 min at 3.25 kV

PRODUCT SELECTION

Description	Supplied Length: M (Yards)	Width: mm (Inches)	Color	STD Pack
MVFT-G-2-12(B4)	11 (12)	50 (2)	Gray	4 rolls
MVFT-50-6400	6.4 (7)	50 (2)	Red	1

INSTALLATION INSTRUCTIONS

EPP-3150	Installation Instructions for Medium Voltage Fusion Tape MVFT

TECHNICAL REPORT

EDR-5465	Medium Voltage Fusion Tape Qualification Report

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