



MVFT

Medium Voltage Fusion Tape

KEY FEATURES

- Compatible with all other products in the Raysulate MV insulation enhancement system
- Suitable for both indoor and outdoor use
- Non-tracking properties
- Continuous operating temperature up to 90°C

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.

Applications

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.

Raychem
from TE Connectivity

Product Testing	Results
AC Dry Withstand/1 min.	15 kV (one insulation layer) 35 kV (two insulation layers)
Loading Cycling 30 days @ 130°C	No deformation or splitting
Low Temperature Install @ 0°C	Installable without difficulty
AC Dry Withstand on Disconnecting Switch	15 kV minimum
Wind Tunnel: 70 MPH for 10 min.	No dislodging of BISG guard from insulator location

Product Performance		
Key Material Properties	Test Method	Requirement
Accelerated Aging 168 hours 150°C Tensile Strength Ultimate Elongation	ASTM D2671	> 1,000 psi > 450%
Low Temperature Flexibility 4 hours -40°	ASTM D2671	No cracking
Dielectric Strength 3.4 mm thickness	ASTM D149	> 300V/mil
Tracking and Erosion Resistance	ASTM D2303	No tracking, erosion to top surface or flame failure after: 1 hour at 2.5 kV 1 hour at 2.75 kV 1 hour at 3.0 kV 20 min. at 3.25 kV

Product Selection Information: Dimensions in inches (mm)				
Catalog Number	Color	Width UOM: Inches (mm)	Supplied Length UOM: Yards (M)	Std. Pack
MVFT-G-2-12(B4)	Gray	2 (50)	12 (11)	4 Rolls

Technical Report: EDR-5465 Medium Voltage Fusion Tape Qualification Report

TE Technical Support Center

USA:	+1 (800) 327-6996
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

energy.te.com

