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3M Electrical Markets Division

Scotch 70

Self fusing silicone rubber electrical tape



Features

- Excellent track resistance.
- Excellent arc resistance.
- Excellent ozone resistance.
- High dielectric strength
- Class H material (180°C continuous operation).
- Workable at extremely low temperatures.
- Excellent instantaneous fusion; does not need to be held down.
- Excellent weathering characteristics.

Applications

- As an overwrap for protection of terminating high-voltage cables against arcing and tracking. High-voltage cables with these insulations should be overwrapped:
 - Butyl rubber
 - Oil-base rubber
 - Ethylene propylene rubber
 - P.V.C.
 - Low and high-density polyethylene cross-linked
- As primary insulation where Class H (180°C/356°F) temperatures are encountered i.e., silicone rubber cables.
- As splice overwrap on spacer cable operating at 15kV and above

Installation Technique

Scotch® Self-Fusing Silicone Rubber Electrical Tape 70 should be applied in half-lap layers using moderate tension. Scotch® Rubber Electrical Tape 70 should be applied on all tape-like terminations which will be operated either outdoors or in areas subjected to contamination or moisture. The following procedure should be used: If possible, connect the termination to its final position. Otherwise, take care not to damage the final overwrap of silicone tape during installation. Overwrap the end seal with several half-lapped layers. Overwrap the entire termination with one additional half-lapped layer. For upright termination, begin from one inch on cable jacket and end at the lug. For inverted termination, end taping on the cable jacket. Wrap with moderate tension (10 to 100 percent elongation). Apply last lap with zero stretch. Press down to avoid end lifting before fusion takes place.

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Important Notice

Before using 3M product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use.

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