

3M Electrical Markets Division

Scotch 77

Fire retardant electric arc proofing tape

Designed to protect most types of electrical cables from fault arc-generated heat and flames of nearby cable failures. These elastomeric tapes are formulated to generate a thick, insulating charred buildup when exposed to high temperatures. The insulating charred buildup protects wrapped cables and cable accessories from the fault arc-generated heat and flames of cable failures within approximately 20 inches until limiting devices can interrupt the faulted circuit.



Features

- Flexible unsupported elastomer makes it easy to apply and remove for cable inspection.
- Conformability provides virtually wrinkle-free wrapping and complete coverage with minimal effort. Provides fault arc protection to adjacent wrapped cables and cable accessories.
- Self-extinguishing; will not support combustion.
- Thin cross section 30 mils thickness saves space & allows cable heat to dissipated
- Will last and maintain its arc proofing properties for the life of the cable. Resistant to water, salt water, acids, sewage and ultraviolet light.
- Can be removed and reused.
- Standard roll sizes for fast convenient installation.
- White-gray color of Scotch® Tape 77 White allows for the easy identification of fire damage areas.
- 5 year shelf life when stored under recommended conditions

Applications

- To arc proof high-energy power cables that may be exposed to arc-fault generated heat and flames from nearby failures of other high-energy cables (any cables within 20 inches are considered to be exposed)
- To arc proof control cable when high energy power cables are present
- To provide additional electrical insulation, thus reducing possibilities of transferred arcs.

Installation Technique

Wrap Scotch® Tape 77 Black or 77 White in half-lapped layers. The tape should be stretched slightly to obtain a snug, virtually wrinkle-free wrap which conforms to the cable. Overlap the last 6 inches of protected cable when starting a new roll of tape. Since the Scotch® Tape 77 Series is not adhesive coated, it must be held in place after wrapping with bands of Scotch® Glass Cloth Electrical Tape 69. The most effective and economical way to hold either of these tapes in place is by banding (2 complete wraps) the first and last applied wrap.

3M Science.
Applied to Life.™

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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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