



CABLE JOINTS, CABLE TERMINATIONS, CABLE GLANDS, CABLE CLEATS, FEEDER PILLARS, FUSE LINKS, ARC FLASH, CABLE ROLLERS, CUT-OUTS

11KV 33KV CABLE JOINTS & CABLE TERMINATIONS
FURSE EARTHING

www.cablejoints.co.uk

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Scotch™ 2242 Linerless Electrical Rubber Tape

Product Description

Scotch™ 2242 Electrical Tape is an economical, general purpose, rubber tape. The tape is a highly conformable, linerless EPR (Ethylene Propylene Rubber) based electrical insulating tape. The tape is designed for use in splicing and terminating wires and cables rated up to 90°C. The tape will meet industry specifications for flame retardance and has the necessary physical and electrical properties to provide immediate moisture seals and void-free buildup.

Tape Features:

- Linerless, self-bonding, insulating tape
- Ethylene propylene base
- Flame retardant
- Physical and electrical properties unaffected by degree of stretch
- Uniform tape unwind from roll
- Small roll size (OD)
- Five year shelf life
- Stable over wide application temperature range
- Weather Resistant

Applications

- Primary insulation for cable splices and terminations
- Moisture-sealing and insulating electrical connections
- Bus bar insulation
- Moisture-sealing of cable ends
- Motor leads
- Wire and cable jacket repair

Data: Physical and Electrical Properties

Physical Properties

Color	Black
Thickness ASTM D-4325	30 mils (0.762 mm)
Tensile Strength ASTM D-4325	250 psi (1.72 MPa)
Ultimate Elongation ASTM D-4325	1000 %
Operating Temperature ASTM D-4388	90°C (194°F)
Emergency Overload ASTM D-4388	130°C (266°F)
Thermal Resistivity 3M Transient	300°C cm/watt
Ozone Resistance ASTM D-4388	Passes

Heat Resistance
ASTM D-4388 Passes

UV Resistance
ASTM D-4388 Passes

Flame Resistance
IEEE Std 27-1974 ANSI
C37.20C 74 Passes

Electrical Properties

Dielectric Strength
ASTM D-4325
Original 750 V/mil
(29.5 KV/mm)

ASTM D-4325
24 hrs in H₂O 750 V/mil
(29.5 KV/mm)

ASTM D-4325
96 hrs @ 23°C 730 V/mil
(28.7 KV/mm)
96% RH

Volume Resistivity
ASTM D-4325
Original >10¹⁵ ohm-cm
Aged 96 hrs >10¹⁴ ohm-cm
@ 23°C 96% RH

Dielectric Constant
ASTM D-4325 3.5
1200 V @ 60 Hz 23°C

Dissipation Factor
ASTM D-4325 0.70%
1200 V @ 60 Hz 23°C

*This data is not to be used for specifications. Values listed are for typical properties and should not be considered minimum or maximum.

Specifications

Product

The high-voltage corona resistant tape must be supplied without a liner and based on ethylene propylene rubber and be capable of emergency operating cable temperature of 130°C. The tape must be capable of being applied in either stretched or unstretched conditions without resulting in loss in either physical or electrical properties. The tape must not split, crack, slip or flag when exposed to various environments (indoors or outdoor). The tape must be compatible with all synthetic cable insulations and have a shelf life of five years. The tape must be flame retardant.

Engineering/Architectural

Splicing and terminating solid dielectric cables shall be done in accordance with drawings engineered by the splice material manufacturer such as the 2047 Series available from the 3M company.

Installation Techniques

Scotch™ 2242 Electrical Tape should be applied in successive half-lapped level wound layers until desired buildup is reached.

This tape should be applied like any rubber tape: that is, the side of the tape wrapped inside the roll should be applied outside on the splice. (Tacky side up.) This will help prevent the roll from getting progressively further away from the work area.

To eliminate voids in critical areas, highly elongate 2242 Tape. Stretch tape in these critical areas just short of the breaking point; doing so will not alter its physical or electrical properties. In less critical areas, less elongation may be used. Normally 2242 Tape is stretched 3/4 of its original width in these critical areas. Always attempt to half-lap to produce a uniform buildup.

Shelf Life

Scotch™ 2242 Electrical Tape has a 5-year shelf life (from date of manufacture) when stored under the following recommended storage conditions. Store behind present stock in a clean dry place at a temperature of 70°F and 40 to 50% relative humidity. Good stock rotation is also recommended.

Availability

Scotch™ 2242 Electrical Tape is available in 3/4 in. by 15 ft, and 1-1/2 in. by 15 ft rolls from your electrical distributor.

IMPORTANT NOTICE TO PURCHASER:

All statements, technical information and recommendations related to the 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.

80-6104-3993-9

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