



35 Vinyl Electrical Color Coding Tape

Data Sheet



LISTED
510
Insulating Tape



LR 48769

1.0 Product Description

Scotch™ 35 Vinyl Electrical Color Coding Tape is an electrical grade polyvinyl chloride tape with a pressure sensitive rubber adhesive available in nine fade resistant colors. Scotch 35 Tape is designed for use in phase identification, color coding of motor leads and piping systems, and for marking safety areas. This abrasion and weather resistant tape has excellent electrical insulating properties, wraps smoothly, conforms well and holds over a wide range of temperatures. 35 tape is resistant to moisture, alkalies, acids and corrosion. It is an Underwriters' Laboratories Listed and Canadian Standards Association Certified "Insulating Tape."

- UL Listed; UL 510 Standard "Insulating Tape" (product category OANZ), File E129200.
- CSA Certified; Standard. C22.2 No. 197-M1983 "PVC Insulating Tape," File LR 48769.
- Polyvinyl chloride (PVC) backing.
- Pressure-sensitive rubber based adhesive.
- Color Coded for job identification and safety.
- Inhibits corrosion of electrical conductors.
- For indoor and weather protected outdoor uses.

2.0 Typical Data / Physical Properties

Temperature Rating

UL 510 80°C (176°F)

CSA

C22.2 No. 197-M1983

Handling 0°C (32°F)

Continuous Operation 105°C (220°F)

Colors

Red, Yellow, Blue, Brown, Gray, White, Green, Orange, Violet

Thickness

7 mils

ASTM D1000 (0.178mm)

Break Strength

ASTM D1000 17 lbs./in.

22°C (72°F)

Ultimate Elongation

ASTM D1000 225%

22°C (72°F)

Adhesion to Steel

ASTM D1000 20 oz./in.

22°C (72°F)

Adhesion to Backing

ASTM D1000 20 oz./in.

22°C (72°F)

Flammability

UL 510 1 sec.

ASTM D1000 4 sec.

Accelerated Aging

ASTM D1000 90%

Flagging

ASTM D100 <0.1 inch

Telescoping

24 Hours @ 50°C
(120°F) <0.1 inch

3.0 Electrical Properties

Voltage Rating	
UL 510	600 Volts
Dielectric Strength	
ASTM D1000	
Standard Condition	1250 v/mil
High Humidity Condition	90% of Std. Condition
Insulation Resistance	
ASTM D1000	>1 x 10 ⁶
(High Humidity megohms Method)	

Note: *These are typical values and should not be used for specification purposes.*

4.0 Specifications Product

The tape is based on polyvinyl chloride (PVC) and/or its copolymers and has a rubber-based, pressure-sensitive adhesive. The tape shall be 7 mils thick, and be UL Listed and marked per UL Standard 510 as “Flame Retardant and Weather Resistant.” The tape shall be compatible with synthetic cable insulations, jackets and splicing compounds. The tape will remain stable and will not telescope more than 0.1 inches when maintained at temperatures below 120°F (50°C).

5.0 Installation Techniques

The tape shall be applied in half-lapped layers with sufficient tension to conform and produce a uniform covering. In most applications, this tension will reduce the width of the tape to approximately 5/8 of its original width. On pigtail splice, the tape should be wrapped beyond the end of the wire and then folded back, leaving a protective cushion to resist cut-through. Wrap tape uphill, taping from a smaller diameter surface to a larger diameter surface. Apply the tape with no tension on the last wrap to prevent flagging.

6.0 Shelf Life

Scotch 35™ Vinyl Electrical Color Coding Tape complies with the requirements of UL 510 for storage. It has a 5-year shelf life (from the date of manufacture) when stored under the following conditions. Store behind present stock in a clean dry place at a temperature of 70°F and 40-50% relative humidity. Good stock rotation is also recommended.

7.0 Availability

Scotch 35 Vinyl Electrical Color Coding Tape is available from your local 3M distributor in the following standard roll sizes:

- 3/4 in. x 66 ft.
- 1/2 in. x 20 ft.

Other lengths and widths are available by special request.

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IMPORTANT NOTICE

Before using this 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.

Warranty; Limited Remedy; Limited Liability. This product will be free from defects in material and manufacture as of the date of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF**

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