

**3M****Scotch®****35 Vinyl Electrical Colour Coding Tape**

Data Sheet

**Product Description**

Scotch Brand 35 Vinyl Electrical Colour Coding Tape is an electrical grade polyvinyl chloride tape with a pressure sensitive rubber adhesive, available in nine fade resistant colours. Scotch 35 Tape is designed for use in phase identification, colour 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. Scotch 35 Tape is resistant to moisture, alkalis, acids and corrosion. It is an Underwriters' Laboratories Listed and Canadian Standard Association Certified "Insulating Tape".

- ❖ UL Listed; UL 510 Standard "Insulating Tape" (product category OANZ), File E129200.
- ❖ CSA certification; Standard C22.2 No. 197-M1983 "PVC Insulating Tape", File LR 48769.
- ❖ Polyvinyl chloride (PVC) backing.
- ❖ Pressure-sensitive rubber based adhesive.
- ❖ Colour Coded for job identification and safety.
- ❖ Nine fade-resistant colours.

**Typical Data/Physical Properties****Temperature Rating**

UL510 80°C (176°F)  
 CSA (Continuous Operation) 105°C (221°F)  
 Colours: Red, Yellow, Blue, Brown, Grey,  
 White, Green, Orange, Violet

**Thickness**

ASTM D1000 0.178mm

**Break Strength**

ASTM D1000 30N/10mm  
 22°C (72°F)

**Ultimate Elongation**

ASTM D1000 225%

**Adhesion to Steel**

ASTM D1000 2.2N/10mm  
 22°C (92°F)

**Adhesion to Backing**

ASTM D1000 2.2N/10mm  
 22°C (72°F)

**Flammability**

UL510 1 sec.  
 ASTM D1000 4 sec.

**Accelerated Ageing:**

ASTM D1000 100%

**Flagging**

ASTM D1000 <2.5mm

**Electrical Properties****Voltage Rating**

UL510 600V

**Dielectric Breakdown**

ASTM D1000  
 Standard Condition 45kV/mm  
 High Humidity Condition 90% of  
 Standard Condition

**Insulation Resistance**

ASTM D1000 >1 x 10<sup>6</sup>  
 High Humidity Method Megohms

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

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### Specifications

The tape is based on polyvinyl chloride (PVC) and/or its copolymers and has a rubber-based, pressure-sensitive adhesive. The tape shall be 0.178mm 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 2.5mm when maintained at temperatures below 50°C (120°F).

### Installation Techniques

The tape shall be applied with sufficient tension to produce a uniform wind. Wrap tape up-hill when taping from a smaller diameter surface to a larger diameter surface. Apply the tape with no tension on the last wrap to prevent flagging.

### Maintenance

Scotch 35 Tape complies with the requirements of UL 510 for storage. When maintained under normal storage conditions, the tape will remain stable and has a five year shelf-life.

### Availability

Scotch 35 vinyl electrical colour coding tape is available from your local 3M authorised distributor in the following standard roll size: 19mm x 20M  
Other lengths and widths are available by special request.

### Important Notice

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