Scotch® Vinyl Electrical Tape 35

Data Sheet **November 2020**

Product Description

Scotch® Vinyl Electrical Tape 35 is a 7-mil thick, premium grade color-coding all-weather vinyl insulating tape. It is designed to perform in ambient temperatures up to 221°F (105°C). The tape is conformable for cold weather application down to 14°F (-10°C). It has excellent resistance to abrasion, moisture, alkalies, acids, corrosion and varying weather conditions (including UV exposure). The combination of an elastic PVC backing and aggressive pressure-sensitive rubber-based adhesive provides moisture-tight electrical and mechanical protection.

- For residential, commercial and industrial environments.
- More permanent phase identification, color coding of motor lead and piping systems.
- Long-lasting, fade-resistant marking for safety areas and equipment.
- Easily identified insulation for electrical wiring.
- Marking and identifying cable on cell sites.
- Suitable for harsh indoor and weather protected outdoor uses.
- Available in 10 fade-resistant colors, listed below.

Typical Properties

Physical Properties	Typical Value[3,4] Imperial (Metric)
Temperature Rating - UL 510[1]	176°F (80°C)
CSA - C22.2 No. 197[2]	14°F (-10°C) 221°F (105°C)
Colors[5]	Blue, Brown, Gray, Green, Orange, Pink, Red, Violet, White, Yellow
Thickness[4]	7 mils (0.178 mm)
Adhesion to Steel[4]	20 oz/in (2.2 N/cm)
Adhesion to Backing[4]	20 oz/in (2.2 N/cm)
Breaking Strength[4]	17 lb/in (30 N/cm)
Elongation[4]	225%
Flame Retardant - UL 510	Pass

Electrical Property	Typical Value[3,4] Imperial (Metric)
Voltage Rating UL 510[1] CSA[2]	 600 V 1000 V
Dielectric Strength[4] Standard Condition V/mil High Humidity	 1250 V/mil (49.2 kV/mm) 90% of std.
Insulation Resistance[4] (High Humidity Method)	>1x10^6 megohms

Notes:

1. In accordance with the National Electrical Code, NFPA 70
2. In accordance with Canadian Electrical Code, Part 1
3. Not for specification. Values are typical, not to be considered minimum or maximum.
4. ASTM D1000 Test Method - properties measured at room temperature 73°F (23°C) unless otherwise stated
5. Color White is rated as UL Sunlight Resistant

Agency Approvals & Self Certifications

- UL Listed: UL 510 Standard “Insulating Tape”, Category OANZ, File No. E129200
- CSA Listed: CSA-C22.2 No.197 “PVC Insulating Tape”, File No. 048769, Class 9052-02
- VDE Marks License no. 130462 for Type 6: IEC 60454-3-1-6/F-PVCP/90
- Self-certified to meet Commercial Item Description: A-A-55809, Code A

- For Regulatory information including RoHS, REACH, please visit www.3M.com/regs

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Installation Techniques	Scotch® Vinyl Electrical Tape 35 shall be applied in half-lapped layers with sufficient tension to produce a uniform wind (for most applications this tension will reduce the tape width to approximately 5/8 of original width). On pigtail splices, the tape shall be wrapped beyond the end of the wires and then folded back, leaving a protective cushion to resist cut-through. Wrap tape up-hill, taping from a smaller diameter surface to a larger diameter surface. Apply the tape with no tension on the last wrap to prevent flagging.
Shelf Life & Storage	This product has a 5-year shelf life (from date of manufacture) when stored in humidity-controlled storage (50°F/10°C to 80°F/27°C and <75% relative humidity).
Availability	Scotch® Vinyl Electrical Tape 35 is available from 3M authorized distributors Also available from 3M.com/electrical or call 1.800.245.3573.

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