



Cable Jacket Repair Tape 2234

Data Sheet

August 2008

Description

Scotch® Cable Jacket Repair Tape 2234 provides a cost effective and efficient means of covering and protecting damaged sections of cable jacket, thereby extending the life of the cable and reducing down time. The outer layer of the tape is composed of vulcanized Hypalon® rubber to provide outstanding chemical and environmental resistance. The inner layer is composed of flame-retardant mastic and acts as a moisture barrier which provides excellent adhesion to a variety of jacket materials.

Features

- Insulates and protects damaged cable jackets
- Flame retardant
- Good adhesion to cable jacket materials
- Excellent abrasion resistance
- Resistant to heat, oil, ozone, UV and other environmental effects
- Maintains flexibility to -22°F (-30°C)

Agency Approvals, Self Certifications, MIL Specs



RoHS
2002/95/EC

RoHS Compliant 2002/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2002/618/EC, unless the substance is in an application that is exempt under RoHS. This information represents 3M's knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.



Scotch® Cable Jacket Repair Tape 2234

Typical Properties

Data are not for specifications. Values are typical and should not be considered minimum or maximum. Properties are measured at room temperature 73°F (~23°C) unless otherwise stated.

Physical Properties

Property (Test Method)	Typical Value US units (metric)	ASTM Test Method (unless noted)
Color	Black	
Adhesive	Flame retardant mastic	
Tensile Strength*	2400 psi (16,5 Mpa)	D412
Elongation* (% at break)	500%	D412
Tear Resistance*	200 pli (35 kg/cm)	D624
Hardness-Shore A	55	D2240
Adhesion to Steel	160 oz/in (17,5 N/cm)	D1000
Adhesion to PVC	85 oz/in (9,3 N/cm)	D1000
Adhesion to Neoprene	14 oz/in (1,5 N/cm)	D1000
Adhesion to Hypalon	107 oz/in (11,7 N/cm)	D1000
Adhesion to PE	112 oz/in (12,2 N/cm)	D1000

Electrical Properties

Property (Test Method)	Typical Value US units (metric)	ASTM Test Method
Volume Resistivity	10 ¹⁴ ohm.cm	D257
Breakdown Voltage	400 V/mil (15,7 kV/mm)	D149

Environmental Resistance

Property (Test Method)	Typical Value US units (metric)	ASTM Test Method
Heat Resistance* (70h/125°C)	Pass	D2000-Type CE
Flammability**	Pass	MSHA CFR 30 Part 7
Oil Resistance* (70h/125°C/IRM 903)	Pass	D2000-Type CE
Ozone Resistance	Pass	D4325
Abrasion Resistance Tabor H22 wheel, 250g, 1000 cycles	0.05g (0.05g)	--
MVTR (37.8°C, 100% RH)	0.025 g/100sq.in.24h (0,38 g/sq.m.24h)	D1249
Water Absorption	0.50%	D570
Copper Corrosion Resistance	Pass	D69

* Test result for backing only

** This product passes the flame test specified in CFR 30 Part 7, but is not approved by MSHA.

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Engineering/ Architectural	Scotch® Cable Jacket Repair Tape 2234 should be half-lapped over the damaged jacket area so as to cover the entire area. Each end should be overwrapped with Scotch® Super 33+™ Vinyl Electrical Tape or Scotch® Vinyl Electrical Tape Super 88. The lowest application temperature is 23°F (-5°C). Continuous operating temperature range is -22°F (-30°C) to 194°F (90°C).
Shelf Life	The tape has a 5-year shelf life from date of manufacture when stored in a clean and dry environment at 70°F (22°C) and 40-50% relative humidity.
Availability	Please contact your local distributor; available from 3M.com/electrical [Where to Buy] or call 1-800-245-3573.

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