

# 3M™ Wireless Weatherproofing Kits WK-99, WK-100 & WK-101


## Economy, General Use and Cold Weather Conditions

Data Sheet

July 2011

**Description** 3M™ Wireless Weatherproofing Kits WK-99, WK-100 and WK-101 create a reliable weatherproof seal for cable-to-cable and cable-to-device connections. 3M Wireless Weatherproofing Kits WK-99 and WK-100 may be used for general use applications, while Scotch® Wireless Weatherproofing Kit WK-101 may be used for cold weather applications.

**Agency Approvals & Self Certifications**

RoHS Compliant 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 2005/618/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.

**Applications**

The self-fusing butyl mastic tape and vinyl tapes supplied in each kit create a weatherproof seal with excellent resistance to environmental factors such as water, condensation, and general weather conditions over a range of temperatures. Each kit provides a flexible weatherproofing solution for a wide variety of cable sizes and device configurations. Kit WK-99 is for general use applications requiring less mastic material. Kit WK-100 is for general use applications. Kit WK-101 is designed for cold weather conditions with application temperatures down to 0°F (-18°C).

**Typical Properties**

Not for specifications. Values are typical, not to be considered minimum or maximum. Properties measured at room temperature 73°F (23°C) unless otherwise stated.

**Vinyl Tape<sup>1</sup>**

Component	Property (Test Method)	Kit WK-100	Kit WK-101
3M™ Temflex™ Vinyl Electrical Tape 1700	ASTM D 2565 Weathering <sup>3</sup> – 1000 hrs	Pass	--
Scotch® Commercial Grade Vinyl Electrical Tape 700	ASTM D 2565 Weathering <sup>3</sup> – 1000 hrs	Pass	--
Scotch® Super 33+™ Vinyl Electrical Tape	ASTM D 2565 Weathering <sup>3</sup> – 1000 hrs	--	Pass

# 3M™ Wireless Weatherproofing Kits WK-99, WK-100 & WK-101

## Mastic Tape

Component	Property (Test Method)	Typical Property US Units (Metric)
3M™ Butyl Mastic Tape 2212	Adhesion to Steel (ASTM D3330)	35 oz/in (3,8 N/cm)
	Tack, 73° /23 °C (3M TM286B)	25 lbs/in <sup>2</sup> (0,17Mpa)
	Tack, 0°F/-18°C (3M TM286B)	16 lbs/in <sup>2</sup> (0,10Mpa)
	Water Absorption, 24 hrs (ASTM D570)	0.07%
	Water Vapor Trans. Rate (ASTM F1249)	0.13 g/100in <sup>2</sup> , 24 hrs (2,0 g/m <sup>2</sup> 24 hrs)
	Flex, -9°F/-23°C (ASTM C765)	Pass
	Cone Penetration (ASTM D217)	3.1 in (80 mm)

## Installed Kit<sup>2</sup>

Component	Property (Test Method)	Kit WK-99 Typical Property US Units (Metric)	Kit WK-100 Typical Property US Units (Metric)	Kit WK-101 Typical Property US Units (Metric)
Installed Kit	Water Seal Test (TM 391)	Pass	Pass	Pass
	Cold Temperature Application	32°F (0°C)	32°F (0°C)	0°F (-18°C)
	Heat Resistance of Vinyl Tape	176°F (80°C)	176°F (80°C)	221°F (105°C)

1. Full data sheets available for each vinyl electrical tape at [www.3m.com/electrical](http://www.3m.com/electrical).
2. See Instruction Sheet for proper installation.
3. ASTM D2565 Weather Cycle 1 – 1000 hrs. Break strength and dielectric strength maintain greater than 90% of original values as tested per ASTM D1000.

**Shelf Life & Storage** This product has a 5-year shelf life from date of manufacture when stored in a humidity controlled storage (10°C/50°F to 27°C/80°F and <75% relative humidity).

**Availability** Please contact your local distributor; available from [3M.com/electrical](http://3M.com/electrical) [Where to Buy] or call 1.800.245.3573.

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