# 3M<sup>™</sup> Highland<sup>™</sup> Vinyl Electrical Tape

Data Sheet		July 2011	
Description	3M <sup>™</sup> Highland <sup>™</sup> Vinyl Electrical Tape is a flame-retardant, conformable, general purpose, 7-mil thick vinyl insulation tape. This tape has excellent resistance to abrasion, moisture, alkalis, acid, copper corrosion and varying weather conditions. It is a polyvinyl chloride (PVC) tape that has a high dielectric strength and provides excellent mechanical protection with minimum bulk.		
Agency Approvals & Self Certifications	UL Listed, UL 510 Standard "Insulating Tape" (product category OANZ), File E129200		
	RoHS 2002/95/EC 💿		
	excess of the maximum concentration values in EU Dire 2005/618/EC, unless the substance is in an application	r part ("Product") does not contain any of the substances in active 2002/95/EC, as amended by Commission Decision that is exempt under RoHS. This information represents 3M's in part on information provided by third party suppliers to 3M.	
Applications	<ul> <li>Primary electrical insulation for all wire and cable splices rated up to 600 volts and 80°C (176°F)</li> <li>Primary electrical insulation for 600 volts bus applications and protective jacketing for low and high voltage bus</li> <li>Protective jacketing for high voltage cable splices and repairs</li> <li>Harnessing of wires and cables</li> <li>For indoor or outdoor applications</li> <li>For above or below ground applications</li> </ul>		
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.		
	Physical Properties (Test Method ASTM D1000*)	Typical Value US units (metric)	
	Color	Black	
	Thickness*	7 mils (0,177 mm)	
	Temperature Rating, UL 510	80°C (176°F)	
	Adhesion to Steel*	25 oz. /in. (2,74 N/10mm)	
	Adhesion to Backing*	18 oz. /in. (1,97 N/10 mm)	
	Breaking Strength*	15 lbs./in. (26 N/10 mm)	
	Elongation*	175%	
	Flammability UL 510	Pass	



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# Typical Properties,<br/>continuedNot for specifications. Values are typical, not to be considered minimum or maximum.<br/>Properties measured at room temperature 73°F (23°C) unless otherwise stated.

Electrical Properties (Test Method ASTM D-1000*)	Typical Value US units
Dielectric Breakdown*	>1,200 V/mil
Insulation Resistance*	> 10 <sup>6</sup> Megohms

humidity controlled storage (10°C/50°F to 27°C/80°F and <75% relative humidity).

Installation	3M <sup>™</sup> Highland <sup>™</sup> Vinyl Electrical Tape should be applied in half-lapped layers with sufficient tension to produce a uniform covering. In most applications, this tension will reduce the tape's width to approximately 5/8 of its 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. <b>DO NOT STRETCH THE LAST INCH OF APPLIED TAPE.</b>
Availability	Please contact your local distributor; available from 3M.com/electrical [Where to Buy] or call 1.800.245.3573.
Shelf Life & Storage	This product has a 5-year shelf life from date of manufacture when stored in a

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#### **Electrical Markets Division**

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