

3M 5680 Cold Shrink Silicone Rubber Termination Kits QT-III

Category : Polymer , Thermoset , Silicone , Silicone Rubber

Material Notes:

3M™ Cold Shrink 5600 and 5680 Series QT-II Termination Kits contain one-piece silicone rubber terminations designed for concentric neutral (CN) cable. They meet the requirements of IEEE 48-1990 for Class I termination. In addition, they meet German standard VDA 0278 parts 5 & 100, British standard BS C-89, Spanish standard UNE 21-115-75 and Brazilian standard A-B-N-T-9314. Similar terminations using Cold Shrink technology meet French EdF standards HN 33-E-01. Data on foreign standards are available upon request. The 3M termination consists of a high dielectric constant (Hi-K) stress control tube insulated with a molded silicone skirted insulator. There is a four-skirt design rated 25/28 kV, and an eight-skirt design rated 35 kV. Cold Shrink QT-II terminations are provided in an expanded state, mounted on a removable inner supporting plastic core. As supplied in this prestretched condition the termination is ready for field installation. During installation the core is unwound, allowing the termination to shrink and form a tight seal. Collectively, these terminations kits accommodate cable primary insulation diameters from .632" to 2.75" (16-70 mm). These kits can be used to terminate the following concentric neutral (CN) power cables: #2 AWG to 1250 kcmil at 15 kV; #2 AWG to 1500 kcmil at 25 kV and #2 AWG to 2000 kcmil at 35 kV. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-5680-Cold-Shrink-Silicone-Rubber-Termination-Kits-QT-III.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	8.27 MPa	1200 psi	Silicone Rubber Insulator; ASTM D42-68
	9.611 MPa	1394 psi	EPDM Rubber Hi-K Stress Control Tube; ASTM D42-68

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.7	2.7	Silicone Rubber Insulator; ASTM D150-70
	@Temperature 130 °C	@Temperature 266 °F	
	3.0	3.0	Silicone Rubber Insulator; ASTM D150-70
	@Temperature 90.0 °C	@Temperature 194 °F	
	3.4	3.4	Silicone Rubber Insulator; ASTM D150-70
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	20	20	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150-70
	@Frequency 100000 Hz	@Frequency 100000 Hz	
	24	24	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150-70
	@Frequency 10000 Hz	@Frequency 10000 Hz	
	29	29	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150-70
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Electrical Properties	Metric	English	Comments
	@Frequency 150 Hz	@Frequency 150 Hz	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150-70
	24.5	24.5	EPDM Rubber Hi-K Stress Control Tube, 400 V at 60% Strain; ASTM D150-70
	@Frequency 60.0 Hz, Temperature 65.0 °C	@Frequency 60.0 Hz, Temperature 149 °F	
	25.2	25.2	EPDM Rubber Hi-K Stress Control Tube, 400 V at 60% Strain; ASTM D150-70
	@Frequency 60.0 Hz, Temperature 90.0 °C	@Frequency 60.0 Hz, Temperature 194 °F	
	25.7	25.7	EPDM Rubber Hi-K Stress Control Tube, 400 V at 60% Strain; ASTM D150-70
	@Frequency 60.0 Hz, Temperature 23.0 °C	@Frequency 60.0 Hz, Temperature 73.4 °F	
	27.2	27.2	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150-70
	@Frequency 60.0 Hz, Temperature 65.0 °C	@Frequency 60.0 Hz, Temperature 149 °F	
	27.7	27.7	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150-70
	@Frequency 60.0 Hz, Temperature 90.0 °C	@Frequency 60.0 Hz, Temperature 194 °F	
	28.8	28.8	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150-70
	@Frequency 60.0 Hz, Temperature 23.0 °C	@Frequency 60.0 Hz, Temperature 73.4 °F	
Dielectric Strength	20.0 kV/mm	507 kV/in	Silicone Rubber Insulator; ASTM D149-70
	@Thickness 0.190 mm	@Thickness 0.00750 in	
Dissipation Factor	0.12	0.12	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150-70
	@Frequency 100000 Hz	@Frequency 100000 Hz	
	0.14	0.14	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150-70
	@Frequency 10000 Hz	@Frequency 10000 Hz	
	0.15	0.15	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150-70
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.16	0.16	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150-70
	@Frequency 150 Hz	@Frequency 150 Hz	
	0.093	0.093	EPDM Rubber Hi-K Stress Control Tube, 400 V at 60% Strain; ASTM D150-70
	@Thickness 1650 mm, Frequency 60.0 Hz	@Thickness 65.0 in, Frequency 60.0 Hz	
	0.096	0.096	EPDM Rubber Hi-K Stress Control Tube, 400 V at 60% Strain; ASTM
	@Thickness 584 mm,	@Thickness 23.0 in,	

Electrical Properties	Frequency 60.0 Hz Metric	Frequency 60.0 Hz English	D150-70 Comments
	0.132 @Thickness 2290 mm, Frequency 60.0 Hz	0.132 @Thickness 90.0 in, Frequency 60.0 Hz	EPDM Rubber Hi-K Stress Control Tube, 400 V at 60% Strain; ASTM D150-70
	0.161 @Thickness 2290 mm, Frequency 60.0 Hz	0.161 @Thickness 90.0 in, Frequency 60.0 Hz	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150- 70
	0.165 @Thickness 1650 mm, Frequency 60.0 Hz	0.165 @Thickness 65.0 in, Frequency 60.0 Hz	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150- 70
	0.166 @Thickness 584 mm, Frequency 60.0 Hz	0.166 @Thickness 23.0 in, Frequency 60.0 Hz	EPDM Rubber Hi-K Stress Control Tube, 3 kV at 60% Strain; ASTM D150- 70
Track Resistance	36000 sec	36000 sec	2.5 kV, 10 k Ohms; ASTM 2303-68

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