

3M 4604 Silicone Rubber Termination Kit

Category : Polymer , Thermoset , Silicone , Silicone Rubber

Material Notes:

3M™ 4604 and 4605 Quick Term II Silicone Rubber Termination Kits are three-piece Cold Shrink terminations for Tape Shield, Wire Shield, and LC Shield power cables. They meet the requirements of IEEE standard 48-1990, for class 1 terminations. In addition they meet German standard VDE 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 Quick Term II technology meet French EdF standards HN 33-E-01 and HN 41-E-01. Data on foreign standards are available upon request. The 3M Quick Term II consists of a high dielectric constant (High-K) stress control tube insulated with a molded silicone skirted insulator. The 4600-series termination is a twelve-skirt design incorporating in one-piece base termination assembly, a four-skirt extension insulator, and a Silicone Rubber Jacket-Sealing Cold Shrink PST Assembly. Quick Term II terminations are provided in an expanded state; mounted on a removable inner supporting plastic core. As supplied in this pre-stretched condition and termination is ready for field installation. During installation the core is unwound, allowing the termination to shrink and form a tight seal. Collectively, these termination kits cover cables with primary insulation O.D. from 1.31" to 2.60" (33 to 66 mm). These kits can be used to terminate 46 kV Shielded Power Cables from 4/0 AWG to 1500 kcm. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-4604-Silicone-Rubber-Termination-Kit.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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