

## 3M 7650-S Cold Shrink Silicone Rubber Termination Kits QT-III

Category : Polymer , Thermoset , Silicone , Silicone Rubber

### Material Notes:

3M™ Cold Shrink QT-III Silicone Rubber Skirted Termination Kits, 7640-S, 7650-S and 7660-S Series, contains one-piece, skirted, silicone rubber termination, qualified as IEEE Standard 48 Class 1 for outdoor weather-exposed applications. The termination assemblies consist of a skirted insulator, high-dielectric constant (High-K) stress control tube, conformable High-K stress controlling compound and built-in environmental top sealing compound. The insulator is made of a dark gray silicone rubber with excellent tracking resistance and hydrophobic properties. Information provided by 3M

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-7650-S-Cold-Shrink-Silicone-Rubber-Termination-Kits-QT-III.php](http://www.lookpolymers.com/polymer_3M-7650-S-Cold-Shrink-Silicone-Rubber-Termination-Kits-QT-III.php)

| Mechanical Properties     | Metric       | English   | Comments                              |
|---------------------------|--------------|-----------|---------------------------------------|
| Tensile Strength at Break | 5.86 MPa     | 850 psi   | Silicone Rubber Insulator; ASTM D412  |
|                           | 10.3 MPa     | 1490 psi  | High-K Stress Control Tube; ASTM D412 |
| 100% Modulus              | 0.000896 GPa | 0.130 ksi | Silicone Rubber Insulator; ASTM D412  |
|                           | 0.00110 GPa  | 0.160 ksi | High-K Stress Control Tube; ASTM D412 |
| 300% Modulus              | 0.00276 GPa  | 0.400 ksi | Silicone Rubber Insulator; ASTM D412  |
|                           | 0.00345 GPa  | 0.500 ksi | High-K Stress Control Tube; ASTM D412 |

| Electrical Properties | Metric             | English              | Comments   |
|-----------------------|--------------------|----------------------|--|
| Dielectric Constant   | 3.6                | 3.6                  | Silicone Rubber Insulator, 1000 V, 50% RH; ASTM D150               |
|                       | @Frequency 60.0 Hz | @Frequency 60.0 Hz   |  |
|                       | 22                 | 22                   | High-K Stress Control Tube, 1000 V, 50% RH; ASTM D150              |
|                       | @Frequency 60.0 Hz | @Frequency 60.0 Hz   |  |
|                       | 25                 | 25                   | High-K Stress Control Compound, 1000 V, 50% RH, 100 mil; ASTM D150 |
|                       | @Frequency 60.0 Hz | @Frequency 60.0 Hz   |  |
| Dielectric Strength   | 11.8 kV/mm         | 300 kV/in            | Environmental Sealing Compound; ASTM D149                          |
|                       | @Thickness 1.91 mm | @Thickness 0.0750 in |  |
|                       | 19.7 kV/mm         | 500 kV/in            | Silicone Rubber Insulator; ASTM D149                               |
|                       | @Thickness 1.91 mm | @Thickness 0.0750 in |  |
|                       | 0.0030             | 0.0030               |  |

| Dissipation Factor<br>Electrical Properties | Metric<br>@Frequency 60.0 Hz | English<br>@Frequency 60.0 Hz | Comments<br>Silicone Rubber Insulator, 1000 V,<br>50% RH; ASTM D150 |
|---|------------------------------|-------------------------------|---|
|   | 0.10<br>@Frequency 60.0 Hz   | 0.10<br>@Frequency 60.0 Hz    | High-K Stress Control Tube, 1000 V,<br>50% RH; ASTM D150            |
|   | 0.90<br>@Frequency 60.0 Hz   | 0.90<br>@Frequency 60.0 Hz    | High-K Stress Control Compound,<br>1000 V, 50% RH; ASTM D150        |
| Track Resistance                            | 18000 sec                    | 18000 sec                     | 3.5 kV; ASTM 2303   |

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