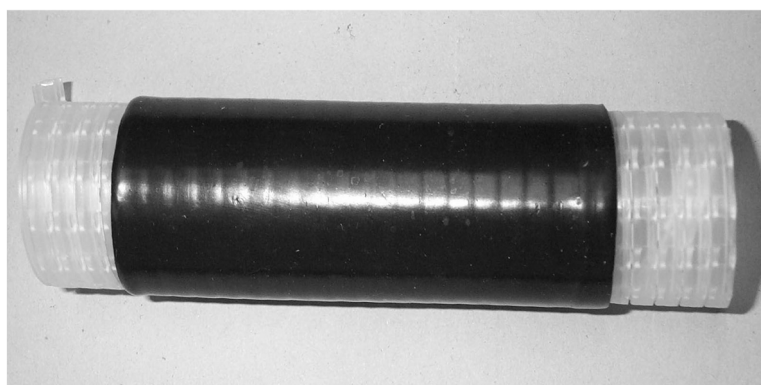




## 98-KC 11

### Cold Shrink Connector Sealing kit

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#### 1. Product Description

The 3M™ 98-KC 11 provides the correct Cold Shrink tube to make the installation of coax and low voltage connectors seals easy. The installation does not require tooling, and the quality of the installation is less installer dependant.

3M™ Cold Shrink tubes are open ended, silicone rubber, tubular sleeves. The sleeves are factory expanded and assembled on a removable supporting plastic core. Each rubber assembly is supplied for field installation in this pre-stretched condition. As the core is unwound, the insulating sleeve shrinks to form a tight seal.

#### 2. Applications

The Cold Shrink tube is made from special Silicone rubber material to provide an environmental seal and electrical insulation on the connector. The connector area is covered by silicone tube to provide mechanical and electrical protection during handling of the prepared cables and exercise.

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### 3. Typical Properties

#### 3.1 Performance Test

The 3M™ 98-KC 11 kit passed the 100 kPa water pressure sealing test and met IEC 529 IP x8 requirements.

#### 3.2 Physical Characteristics

| Characteristic      | Standard                       | Unit              | Value (nominal)        |
|---------------------|--------------------------------|-------------------|------------------------|
| Hardness            | DIN 53 505                     | Shore A           | 40                     |
| Appearance          |                                |                   | <b>Black</b>           |
| Specific gravity    | DIN 53 479 A                   | g/cm <sup>3</sup> | 1,11                   |
| Tensile strength    | DIN 53 504 S1                  | N/mm <sup>2</sup> | 10,2                   |
| Elongation at break | DIN 53 504 S1                  | %                 | 850                    |
| Tear resistance     | ASTM D 624 B                   | N/mm              | 25                     |
| Rebound resilience  | DIN 53 512                     | %                 | 58                     |
| Compression set     | DIN ISO 815-B<br>(22h / 175°C) | %                 | 20                     |
| Dielectric strength | IEC 60250                      | KV/mm             | > 10                   |
| Volume resistivity  | IEC 60093                      | Ohm cm            | > 1 x 10 <sup>14</sup> |

### 4. User Information

#### 4.1 Product Features

| Feature                          | Benefit   |
|----------------------------------|---|
| Cold Shrink technology           | No (heating) tools needed<br>Safer and quicker installation |
| Proven Silicone material         | Reliable sealing - Easy to remove                           |
| Total product line               | A solution for any application                              |
| Tested application               | Reliable installation                                       |
| Application temperature          | - 20°C ... + 50°C   |
| Working temperature              | 130°C max   |
| External environmental condition | UV resistant  |

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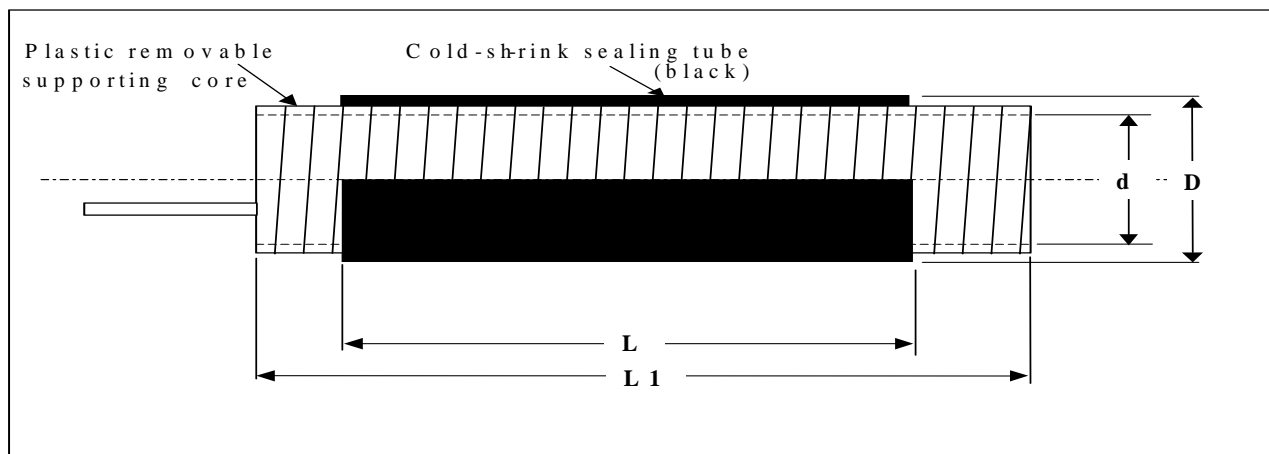
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### 4.2 Product Selection Guide

| Kit Reference | Application Range |                 |
|---------------|-------------------|-----------------|
| 98-KC 11      | Minimum 13,5 mm   | Maximum 39,0 mm |

### 4.3 Product Dimensions



| Product Number | L [mm]<br>On core | L[mm]<br>installed | L1<br>[mm] | d<br>[mm] | D<br>[mm] | Weight<br>gross [kg] |
|----------------|-------------------|--------------------|------------|-----------|-----------|----------------------|
| 98-KC 11       | 160 +/- 10        | 170 min            | 200 +/- 10 | 43 min    | 50 max    | 0,07 approx          |

### 4.4 Storage condition

It is recommended to store the 98-KC 11 kits in a dry climate at a temperature of -40°C up to +50°C

### 4.5 Shelf Life

Shelf life of 3M 98-KC 11 Coax Connector Sealing Kits is specified with 36 month from date of manufacturing.

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## 5. Additional Information

To request additional product information see address below.

### ***Important Notice***

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluates the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method or application.

Values presented have been determined by standard test methods and are average values not meant to be used for specification purposes.

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