

# 3M QTII

## Cold Shrink Three Core Indoor / Outdoor Terminations

### 94-EB Series for 12/20(24) kV and 18/30(36) kV Cables

#### Application

3M™ QTII Cold Shrink Series Kits are designed for 36kV Umax voltage class, three core polymeric power cable systems with either copper wire or copper tape screen, according to HD 620 (IEC60502).

#### Kit Content

3M™ 94-EB Series Terminations include the Cold Shrink QTII Silicone Termination body with integrated stress control device, and silicone elastomeric insulation. Silicone tape is included for moisture sealing. Also included are all armour continuity components, re-jacketing tubes, and three core cold shrink breakout boots. Skirts are integrated for faster & easier installation.



#### Product Features

- The versatile design of the prefabricated one-piece cold shrink termination body allows installation on a wide range of cable sizes and types and a fast and easy installation at temperatures ranging from - 20°C to + 50°C.
- No heat or flame is needed during installation.
- Solderless earth connection using Constant Force springs.
- No special tools needed during installation.

#### Installation

3M™ Cold Shrink technology ensures quick, easy and safe installation of the QTII Termination Body by pulling and unwinding the plastic support core in counter clockwise direction. Use of special tools is not necessary.

Detailed instructions for installing the 3M™ QTII Series Terminations are included in each kit.

#### Product Identification

3M™ QTII Series Termination kits are marked with supplier name, cable cross section ranges, voltage class and cable type, storage conditions and manufacturing codes for product traceability.

#### Performance Tests

3M™ QTII 94-EB Series Terminations meet and exceed the requirements of the European standard CENELEC HD 629.1 as well as IEC 60502-4.

See Independent Test Report No. I0441-0E

#### Storage

The shelf life of 3M™ QTII Series Terminations is specified as 3 years.  
Temperature: - 40°C to +50°C.

## Product Selection

| Kit Reference    | Application Range Guide (mm <sup>2</sup> )<br><b>12/20(24) kV Outdoor</b> | Application Range Guide (mm <sup>2</sup> )<br><b>18/30(36) kV Indoor*</b> | Diameter over primary insulation (mm) | Max. Lug diameter accepted (mm) |
|------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------|---------------------------------|
| <b>94-EB61-3</b> | 25 – 35                                                                   | N/A                                                                       | 16.2 – 24.4                           | 24                              |
| <b>94-EB62-3</b> | 50 – 120                                                                  | 25 – 50                                                                   | 16.2 – 28.4                           | 28                              |
| <b>94-EB63-3</b> | 120 – 240                                                                 | 25 – 150                                                                  | 21.3 – 35.0                           | 35                              |
| <b>94-EB64-3</b> | N/A                                                                       | 95 – 240                                                                  | 27.4 – 45.7                           | 45                              |

\*Please note this range is not suitable for 19/33(36)kV

## Product Stewardship

3M has a fundamental concern for all who make, distribute and use its products, and for the environment in which we live. This concern is the basis of our philosophy and policies by which we assess the health and environmental information on our products and then take the appropriate steps to protect employee, the public health and the environment.

## Customer Notice

3M encourages its customers and potential users of 3M products to review their applications for such products from the standpoint of human health and environmental quality. To help ensure that 3M products are not used in ways for which they were not intended or tested. 3M personnel are available to assist customers in dealing with ecological and product safety considerations. Your 3M sales representative can arrange for the proper contacts.

## Regulatory Status

3M™ QTII Series Terminations are not subject of the European WEEE and RoHS Directives but meet their requirements.

3M and Scotchcast are trademarks of 3M Company

### Important Notice

All statements, technical information and recommendations related to the Seller's products are based on information believed to be reliable, but the accuracy or completeness thereof is not guaranteed. Before utilizing the product, the user should determine the suitability of the product for its intended use. The user assumes all risks and liability whatsoever in connection with such use.

Any statements or recommendations of the Seller which are not contained in the Seller's current publications shall have no force or effect unless contained in an agreement signed by an authorized office of the Seller.

The statements contained herein are made in lieu of all warranties, expressed or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose which warranties are hereby expressly disclaimed. SELLER SHALL NOT BE LIABLE TO THE USER OR ANY OTHER PERSON UNDER ANY LEGAL THEORY; INCLUDING BUT NOT LIMITED TO NEGLIGENCE OR STRICT LIABILITY; FOR ANY INJURY OR FOR ANY DIRECT; INDIRECT; INCIDENTAL OR CONSEQUENTIAL DAMAGES SUSTAINED OR INCURRED BY REASON OF THE USE OF ANY OF THE SELLER'S PRODUCTS.

### Electrical Markets Division

#### 3M United Kingdom PLC

##### Sales Office

PO Box 393  
Bedford MK41 0YE  
Telephone: 0870 609 4639  
Fax: 01234 229 433

#### 3M Ireland Ltd

##### Sales Office

The Iveagh Building, The Park,  
Carrickmines, Dublin 18, Ireland  
Telephone: (01) 800 812 732  
Fax: 353 1 280 3509

#### 3M United Kingdom PLC

##### Head Office

3M Centre, Cain Road  
Bracknell, Berkshire RG12 8HT  
Telephone: 01344 858 000  
Fax: 01344 858 758