

# **Cold Shrink Single Core Indoor / Outdoor Terminations**

93-EB Series for 6.6/11(12) kV, 8.7/15(17.5) kV and 12/20(24) kV Cables

## **Application**

3M<sup>TM</sup> QTII Cold Shrink Series Kits are designed for 24kV Umax voltage class, Single core polymeric Copper Wire Screened power cable systems according to HD 620 (IEC 60502).

#### Kit Content

3M<sup>™</sup> 93-EB Series Terminations include the Cold Shrink QTII Silicone Termination body with integrated stress control device, and silicone elastomeric insulation. Skirts are integrated for easier & faster installation. Silicone tape is included for moisture sealing. Also included are all armour continuity components where applicable, please refer to selection table for details.



### **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<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> QTII 93-EB Series Terminations meet and exceed the requirements of the European standard CENELEC HD 629.1 as well as IEC 60502-4. See Test Report No. D0641-0E

### Storage

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

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### **Product Selection**

Kit Reference	Application Range Guide (mm²) 6.6/11(12) kV Outdoor	Application Range Guide (mm²) 8.7/15(17.5) kV Outdoor	Application Range Guide (mm²) 12/20(24) kV Indoor	Diameter over primary insulation (mm)	Max. Lug diameter accepted (mm)
93-EB62-1	50 – 150	35 - 120	25 – 95	16.0 – 28.5	28
93-EB63-1	150 – 300	120 - 240	70 – 240	21.3 – 35.0	35
93-EB64-1	300 – 630	240 - 500	185 – 500	27.0 – 45.7	45
93-EB65-1	500 – 1000	400 - 1000	400 – 1000	33.0 – 53.3	53

## **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<sup>™</sup> QTII Series Terminations are not subject of the European WEEE and RoHS Directives but meet their requirements.

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#### **Important Notice**

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