

# 3M™ QTEN

## Cold Shrink Termination 95-EP620-1R, for XLPE Insulated Cables, Indoor Application

### Application

3M™ QTEN 95-EP620-1R Cold Shrink Termination Kit is designed for Cable Terminations up to 52kV U<sub>max</sub> Voltage class, Single core polymeric power cable systems with copper wire screen according to IEC 60840. The termination has a shorter installation length designed for use with Siemens SITRAS ASG25 Switchgear.

### Kit Content

3M™ QTEN Termination includes a Cold shrink body with integrated, silicone elastomeric insulation and outer silicone skirts, with an integrated stress control layer. Also included are silicone Cold shrink PST's (Pre-Stretched Tubes) for a bottom and top Lug sealing. The inner refractive stress control layer and the silicone insulation layer are co-extruded during the manufacturing process.



### Product Features

- The versatile design of the silicone 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, flame, or special tools are needed during splice body installation.
- Solderless earth connection by means of connection to copper screen wires.
- Thick walled, Silicone rubber Cold Shrink outer skirts and sealing PST's provide physical protection and moisture sealing of the completed Termination.
- Reduced installation length suitable for shorter termination box applications.

### Installation

3M™ Cold Shrink technology ensures quick, easy and safe installation of the QTEN Termination Body and outer rain sheds and sealing tubes by pulling and unwinding the plastic support core in counter clockwise direction. The use of special tools is not necessary. Detailed instructions for installing the 3M™ QTEN Termination are included in each kit.

## Product Identification

3M™ QTEN 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.

## Product Selection

Kit Reference	Cable Dimensions			Maximum Cable Lug Diameter (mm)	Length of Termination (mm)
	Diameter over Primary Insulation (mm)	Cross Section Area Guide (mm <sup>2</sup> )	Maximum diameter over cable sheath (mm)		
95-EP 620-1R	33.0 – 58.0	150 – 800	90	75	480

## Performance Tests

The 3M™ QTEN Single Core Termination meets and exceeds the requirements of IEC standard 60840 04/2004. Refer to Test Reports TR004659, & TR004827.

## Typical Properties

Continuous Operating Temperature	105°C
Emergency Overload Temperature	140°C
Max. System Voltage	30/52kV
Creepage distance	1050mm
Flash Over distance	480mm
Pollution level class acc to IEC60815	Class C (II)

## Storage

The shelf life of 3M™ QTEN Series Termination is specified as 3 years.  
Temperature: - 40°C to +50°C (short term peaks at 60°C max.)

## 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.

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## Regulatory Status

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

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**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