

## **3M™ QS2000E**

### **Cold Shrink Single Core Inline Joint with Cold Shrink Re-jacketing** 94-AS6xx-1/C Series with Mechanical Connectors

#### **Application**

3M™ 94-AS6xx-1/C Cold Shrink Series Kits are designed for inline splicing up to 36kV Umax voltage class, Single core polymeric power cable systems with copper wire screen, acc. to HD 620 (IEC 60502).

#### **Kit Content**

The 94-AS6xx-1/C Inline Joint Series includes the Cold Shrink QS2000E Silicone splice body with integrated stress control layer, silicone elastomeric insulation and outer semi-conductive layer. Also included are Scotch® 13 tape to form the inner conductive electrode, copper screen sleeve, Constant Force springs, and thick walled EPDM rubber Cold Shrink outer tubes to re-build the cable outer jacket. To connect the conductors, a mechanical connector for a quick and easy cable connection is provided with the kit.



#### **Product Features**

- The versatile design of the prefabricated one-piece cold shrink splice 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 splice body installation.
- Wide application range covering several cable cross sectional areas.
- The mechanical connector provides a quick and easy connection, without any special tooling.
- Solderless earth connection by means of copper screen sleeve and constant force springs.
- Thick walled, EPDM rubber Cold Shrink outer re-jacketing tubes provide physical protection and moisture sealing of the completed Inline Splices.
- No special tools needed during splice installation.

#### **Installation**

The 3M Cold Shrink technology ensures quick, easy and safe installation of the QS2000E Splice Body and outer protection 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 QS2000E Series Inline Joints are included in each kit.

#### **Product Identification**

The 3M QS2000E Series Inline Joint kits are marked with supplier name, cable cross section ranges, voltage classes and cable type, storage conditions and manufacturing codes for product traceability.

#### **Performance Tests**

The 3M QS2000E Single Core Inline Joint Series meets and exceeds the requirements of the European standard CENELEC HD 629.1. See Independent Test Reports TR003319 & 2007-104.

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## Selection Table

Kit Ref.	Application Range				
	Diameter over Cable jacket max.(mm)	Diameter over Primary Insulation (mm)	Cross Section (mm <sup>2</sup> ) 18/30(36)kV 19/33(36)kV	Connector Dimensions (Mechanical Connector Included)	
				Diameter max. (mm)	Length max. (mm)
94-AS620-1/C	46	20.6 – 36.8	50 - 185	38	150
94-AS630-1/C	74	33.4* – 67.6	240 - 300	60	250
94-AS631-1/C	74	35.9 – 67.6	300 – 630	60	250

\*using adaptor tube

## Storage

The shelf life of 3M™ QS2000E Series Inline Joints is specified as 3 years.  
Temperature: - 40°C to +50°C.

## 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™ QS2000E Series Inline Joints are not subject of the European WEEE and RoHS Directives but meet their requirements.

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