3M™ QS200

33kV Cold-Shrink Inline Joint with Cold-Shrink re-jacketing, including connectors

Product Application

3M QS200 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 according to HD 620 (IEC 60502).

Selection Table

Application Range					
Kit Ref.	Cable Dimensions for Polymeric Cables			Connector Dimensions Crimp or Mechanical Connector	
	Diameter over Cable jacket max.(mm)	Diameter over Primary Insulation (mm)	Cross Section (mm^2) 19/33(36)kV	Diameter max. (mm)	Length max. (mm)
94-AK620-1/C	46	19.1 – 38.0	50 – 240	38	160
94-AK630-1/C	74	33.4 – 66.0	300 – 630	68	245
94-AK631-1/C	74	33.4 – 66.0	800 – 1000	68	245

Kit Content

The 94-AK6xx-1/C Inline Joint Series includes the Cold Shrink QS200 silicone splice body with integrated electrode, stress control device, silicone elastomer insulation and outer semi-conductive layer. Also included are a mechanical connector, copper screen sleeve, constant force springs and thick walled EPDM rubber Cold Shrink outer tubes to re-build the cable outer jacket.

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.
- The integrated, semi-conductive electrode forms a faraday cage over the connector and eliminated the use of tapes or additional moulded or metallic electrodes.
- No heat or flame is needed during splice body installation.
- Delivered mechanical connector provides an adequate application range.
- 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. They can be stacked together providing a short parking position on the cable.
- No special tools needed during splice installation.

Performance Tests

The 3M QS200 Single Core Inline Joint Series meets and exceeds the requirements of the European standard CENELEC HD 629.1
Test Report: 3M Marcallo Independent Testing Laboratory, Report No.I0605-0 dated May 13, 2008.

Installation

The 3M Cold Shrink technology ensures quick, easy and safe installation of the QS200 Splice Body and outer protection tubes 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 QS200 Series Inline Joints are included in each kit.

Storage Conditions

The shelf life of the 3M QS200 Series Inline Joints is specified as 3 years.
Temperature: -40°C to +50°C (short term peaks at 60°C max.)

Legal Requirements

The 3M QS200 Series Inline Joints are not subject of the European WEEE and RoHS directives but meet their requirements.

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