



QS 200 Cold Shrink Inline Joint with Cold Shrink outer re-jacketing

94-AK 6x0-1/C series



1. Product Description

The 3M™ QS 200 Cold Shrink Series Kits are designed for inline jointing single core polymeric power cable systems with copper wire screen according to HD 620 (IEC 60502) up to 36 kV U_{max} voltage class.

The 94-AK 6x0-1/C Inline Joint Series includes the Cold Shrink QS 200 silicone splice body with integrated stress control device, conductive electrode, silicone elastomeric insulation and outer semi-conductive layer. Also included are the Mechanical Connector with shear-off bolts, Copper Screen sleeve, Constant Force springs for metallic screen and thick-walled EPDM rubber Cold Shrink outer tubes to re-build the cable outer jacket.

2. Applications

Inline joint for underground application up to 36 kV U_{max} including Cold Shrink joint body for safe and quick installation.

Cold Shrink technology allows wide application range from 50 mm² up to 630 mm².

The Cold Shrink joint body can be used for cross section transition within the kit and connector application range.

Suitable for Cable Types:

- Copper Wire Screen.
- Copper Wire & Aluminium Laminate Screen.
 - Additional Scotch 24 (25 mm x 4.5 m) Copper Mesh Tape required.
* (not part of the kit).

3. Typical Properties

3.1 Rated Voltage U_0/U (U_{max})

94-AK Series: 18/30 (36) kV and 19/33 (36) kV

3.2 Type Test

Type Tests according to EN 61442 and HD 629.1 S2.

4. User Information

4.1 Features

- The 3M™ QS 200 is a Cold Shrink, one-piece multilayer silicone rubber splice body with integrated stress control device, electrode, insulation and outer semi-conductive layer.
- The QS 200 silicone splice body is delivered on a removable plastic supporting core. During the installation the ribbon core is unwound counterclockwise, allowing the splice body to shrink onto the cable insulation.
- Cold Shrink technology ensures quick, easy and tool-free installation.
- No heat or flame is needed during splice body installation.
- Material properties allow the installation of the cold shrink splice body at temperatures ranging from -20°C to + 50°C.
- Kits are supplied with mechanical screw connectors Type SICON from Pfisterer for use with copper and aluminium cable conductors.
- 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 joints.
- Detailed instructions for the installation of the 3M QS 200 Series Inline Joints and Pfisterer SICON connectors are included in each kit.

4.2 Selection Guide

Kit Reference	Cable Dimensions for Polymeric cable			Connector included Type SICON
	Diameter over Cable Jacket max. (mm)	Diameter over Primary Insulation (mm)	Cross Section (mm ²) 18/30 (36) kV 19/33 (36) kV	
94-AK 620-1/C	48	19,4 – 36,0	50 – 240	332 592 010
94-AK 640-1/C	54	26,7 – 43,0	95 - 300	332 602 010
94-AK 630-1/C	60	33,3 - 52,0	300 - 630	332 603 010

¹The application range can change depending on the primary insulation diameter.

4.3 Shelf Life and Storage

The 3M™ QS 200 Inline Splices have a 36-month shelf life from date of production, stated on the label, when stored at -40°C to +50°C and <70% rel. humidity.

Additionally, the expiring date is stated on the carton label.

5. Additional Information

To request additional product information, see address below.

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