

## 3M QS2000B

### Cold Shrink Single Core Branch Joint with Cold Shrink Re-jacketing 93-BP620-1/C with Mechanical Connectors

#### Application

3M™ QS2000B 93-BP620-1/C Cold Shrink Joints are designed for Branch splicing up to 24kV U<sub>max</sub> voltage class, Single core polymeric power cable systems with copper wire screen according to HD 620 (IEC 60502).

#### Kit Content

3M™ 93-BP620-1/C Branch Joint includes the Cold Shrink QS2000B silicone splice body with integrated stress control device, conductive electrode, silicone elastomeric insulation and outer semi-conductive layer. Also included are Copper Screen sleeve, Constant Force springs for metallic screen, mechanical connector, 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.
- No heat or flame is needed during splice body installation.
- Mechanical connector provides quick and easy connection, with no special tooling.
- Solderless earth connection by means of Copper Stocking and Constant Force springs.
- Thick walled, EPDM rubber Cold Shrink outer re-jacketing tubes provide mechanical protection and moisture sealing of the completed Branch joints.
- No special tools are needed during splice installation.

#### Installation

3M™ Cold Shrink technology ensures quick, easy and safe installation of the QS2000B 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 QS2000B Series Branch Joints are included in each kit.

#### Product Identification

3M™ QS2000B Series Branch Joint 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	Diameter over Cable jacket max.(mm)	Diameter over Primary Insulation (mm)	Cross Section (mm <sup>2</sup> ) 6.6/11(12) kV & 12/20(24) kV
93-BP620-1/C	46	22.3 – 33.2	95 – 240

## Storage

The shelf life of 3M™ QS2000B Series Branch Joints is specified as 3 years.  
Temperature: - 40°C to +50°C.

## Performance Tests

3M™ QS2000B Branch Joint Series meets and exceeds the requirements of the European standard CENELEC HD 629.1 and IEC 60502-4. See Independent Test Report No. I0455-0E

## Product Stewardship

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## Regulatory Status

3M™ QS2000B Series Branch Joints are not subject of the European WEEE and RoHS Directives but meet their requirements

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## 3M QS2000

### Cold Shrink Single Core Inline Joint with Cold Shrink Re-jacketing 93-AP6x1-1/C Series with Mechanical Connectors

#### Application

3M™ QS2000 Cold Shrink Series Kits are designed for inline splicing up to 24kV U<sub>max</sub> voltage class, Single core polymeric power cable systems with copper wire screen according to HD 620 (IEC 60502).

#### Kit Content

3M™ 93-AP6x1-1/C Inline Joint Series includes the Cold Shrink QS2000 silicone splice body with integrated stress control device, conductive electrode, silicone elastomeric insulation and outer semi-conductive layer. Also included are Copper Screen sleeve, Constant Force springs for metallic screen, mechanical connector, 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.
- No heat or flame is needed during splice body installation.
- Mechanical connector provides quick and easy connection, with no special tooling.
- Solderless earth connection by means of Copper Stocking and Constant Force springs.
- Thick walled, EPDM rubber Cold Shrink outer re-jacketing tubes provide mechanical protection and moisture sealing of the completed Inline joints.
- No special tools are needed during splice installation.

#### Installation

3M™ Cold Shrink technology ensures quick, easy and safe installation of the QS2000 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 QS2000 Series Inline Joints are included in each kit.

#### Product Identification

3M™ QS2000 Series Inline Joint 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	Diameter over Cable jacket max.(mm)	Diameter over Primary Insulation (mm)	Cross Section (mm <sup>2</sup> ) 12/20(24) kV
93-AP611-1/C	39	17.7 – 26.0	50 – 95
93-AP621-1/C	46	22.3 – 33.2	95 – 240
93-AP631-1/C	56	28.4 – 42.0	240 – 400

## Storage

The shelf life of 3M™ QS2000 Series Inline Joints is specified as 3 years.

Temperature: - 40°C to +50°C.

## Performance Tests

3M™ QS2000 Inline Joint Series meets and exceeds the requirements of the European standard CENELEC HD 629.1 and IEC 60502-4. See Independent Test Report No. I0353-0E

## Product Stewardship

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