

Cold Shrink Three Core Indoor / Outdoor Terminations for Copper Wire Screen Armoured & Unarmoured Cables up to 36kV Umax Voltage Class

3MTM QT-II Terminations



Product Features

- The versatile design of the prefabricated one-piece 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 or flame is needed during installation.
- No special tools needed during installation.

Product Application

 $3M^{TM}$ QT-II Cold Shrink Indoor / Outdoor Series Kits are designed up to 36kV U_{max} voltage class, three core polymeric power cable systems according to HD 620 (IEC 60502).

Kit Contents

3M[™] Terminations include the Cold Shrink QT-II Silicone Termination body with integrated stress control device, and silicone elastomeric insulation. Skirts are integrated for easier & faster installation. Silicone tape is included for moisture sealing. Also included are all armour continuity components where applicable, please refer to selection table for details.

Product Features

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- No heat or flame is needed during installation.
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Installation

3M[™] Cold Shrink technology ensures quick, easy and safe installation of the QT-II Termination Body 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[™] QT-II Series Terminations are included in each kit.



QT-II Selection Table

Three Core Armoured / Unarmoured Copper Wire Screen Cables

Kit Number	BIL kV	Jacket Diameter Range (mm)	Cable Insulation Range (mm)	Indoor 3.3kV mm²	Indoor 6.6kV mm²	Indoor 11kV mm²	Indoor 15kV mm²
92-EB 60-3-AU	95	Max. 60	11.2 - 16.5	25 - 70	25 - 50	10-25	-
92-EB 61-3-AU	95	Max. 60	14.2 - 22.1	70 - 185	70 - 150	35-70	25-50
92-EB 62-3-AU	95	Max. 78	16.2 - 22.1	95 - 185	95 - 150	70-95	50-70
92-EB 63-3-AU	95	Max. 78	19.8 - 33.0	185 - 400	185 - 400	120-150	95-120
92-EB 64-3-AU	95	Max. 107	22.0 - 33.0	240 - 400	240 - 400	185-300	150-240

Final determining factor is cable insulation diameter

Three Core Armoured / Unarmoured Copper Wire Screen Cables

Kit Number	BIL kV	Jacket Diameter Range (mm)	Cable Insulation Range (mm)	Outdoor 3.3kV mm²	Outdoor 6.6kV mm²	Outdoor 11kV mm²	Outdoor 15kV mm²	Indoor 22kV mm²
93-EB 60-3-AU	125	Max. 60	14.2 - 22.1	95 - 300	70 - 240	25-35	-	10
93-EB 61-3-AU	125	Max. 60	16.0 - 28.4	95 - 300	70 - 240	50-70	35-50	25-35
93-EB 62-3-AU	125	Max. 78	16.0 - 28.4	95 - 300	70 - 240	95-150	70-120	50-120
93-EB 63-3-AU	125	Max. 107	21.3 - 35.0	185 - 500	185 - 400	185-300	150-240	120-240

Final determining factor is cable insulation diameter

Three Core Armoured / Unarmoured Copper Wire Screen Cables

Kit Number	BIL kV	Jacket Diameter Range (mm)	Cable Insulation Range (mm)	Outdoor 22kV mm²	Indoor 33kV mm²
94-EB 61-3-AU	170	23.0 -35.0	16.2 - 28.5	25-35	-
94-EB 62-3-AU	170	30.0 - 44.0	21.3 - 35.0	50-120	25-50
94-EB 63-3-AU	170	35.0 - 52.0	27.4 - 45.7	120-240	25-150
94-EB 64-3-AU	170	41.0 - 65.0	33.3 - 53.3	-	95-240

Final determining factor is cable insulation diameter

Three Core Armoured / Unarmoured Copper Wire Screen Cables

Kit Number BIL kV		Jacket Diameter Range (mm)	Cable Insulation Range (mm)	Outdoor 33kV mm²
94-EB 63-4-AU	170	Max. 107	21.3 - 35.0	25-150
94-EB 64-4-AU	170	Max. 107	27.4 - 45.7	95-240

Final determining factor is cable insulation diameter



Performance Tests

3M[™] Terminations meet and exceed the requirements of IEC 60502-4 and IEEE-48.

Storage

The shelf life of 3M[™] QT-II Series Terminations 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.

Legal Requirements

3M QT-II Series Inline Joints are not subject to the European WEEE and RoHS Directives but meet their requirements.

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

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