



## **3M** LC Series

### **Cold Shrink Inline Joints for Low Voltage Polymeric Cables**

#### **Application**

3M™ Cold Shrink LC Series Joints have been designed for multi core Low Voltage Power Cables up to and including 1.9/3.3kV. Also suitable for some multi pair cables. Designed for flexible or trailing cables, Cable Tray applications, and Indoor applications. Suitable for Cable Type XLPE/PVC Insulated, Steel Wire Armoured, PVC Sheathed Cables, with or without a lead sheath. Additional mechanical protection may be required for direct burial.

#### **Features**

3M™ Cold Shrink LC Series Joints use 3M™ Cold Shrink Technology, eliminating the need for resin, heat and special tools, making a quick, simple and reliable installation. The Cold Shrink Outer protection tube provides a reliable environmental seal, and is resistant to acid, alkalis, ozone, and UV light.

#### **Kit Content**

- Cold Shrink Pre Stretched Outer Tube
- Self Amalgamating Insulation Tape
- Armour/Earth connection components
- Full Installation Instructions



#### **Shelf Life**

3M™ Cold Shrink Tubes and Insulation tapes have a 5 year shelf life from date of manufacture when stored at the recommended temperature of 10-27°C at <75% Relative Humidity.

#### **Material Properties**

Please refer to the individual technical data sheets for EPDM Rubber Cold Shrink Tubes for details of Electrical properties and other data. Type Test Report available on request, TR000080#2 (excludes impact testing)

## Product Selection: Multicore Cables

KIT REF	CROSS SECTIONAL AREA (mm <sup>2</sup> )					Cable Diameter Range (mm)	Cable Armour Range (mm)
	Single Core 1kV	Two Core 1kV	Three Core 1kV	Four Core 1kV	Three Core 3.3kV		
LC1	N/A	1.5 - 4	1.5 - 4	1.5 - 2.5	N/A	16.1 – 33.1	9 – 15
LC2	50 – 95	6 - 10	6 - 10	4 - 6	N/A	16.1 – 33.1	14 – 22
LC3	120 – 150	16 - 50	16 - 25	10 - 16	N/A	16.1 – 33.1	18.5 – 29
LC4	185 – 400	70 - 120	35 - 70	25 - 50	16 - 50	24.9 – 56.4	23.5 – 37
LC5	500 – 630	150 - 185	95 - 150	70 - 120	70 - 150	37.8 – 84.3	31 – 50
LC6	800 – 1000	240 - 300	185 - 240	150 - 185	185 - 240	37.8 – 84.3	44 – 70
LC7	N/A	N/A	300	240 - 300	300	62.5 – 128.5	44 - 70

Note: For cables with more than 4 cores, please use the cable diameter and armour diameter to select, taking into account the space needed to install the chosen connectors.

## Product Selection: Multipair Cables

KIT REF	CABLE SIZE	Cable Diameter Range (mm)	Cable Armour Range (mm)
LC1	2 Pair 1.5mm <sup>2</sup>	16.1 – 33.1	9 – 15
LC2	4 Pair 1.5mm <sup>2</sup>	16.1 – 33.1	14 – 22
LC3	7 Pair 2.5mm <sup>2</sup>	16.1 – 33.1	18.5 – 29
LC5	24 Pair 1.5mm <sup>2</sup>	37.8 – 84.3	31 – 50

Note: For other Multipair combinations, please contact us for help with selection.

## 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.

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