



## **3M** LC Series

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

#### **Application**

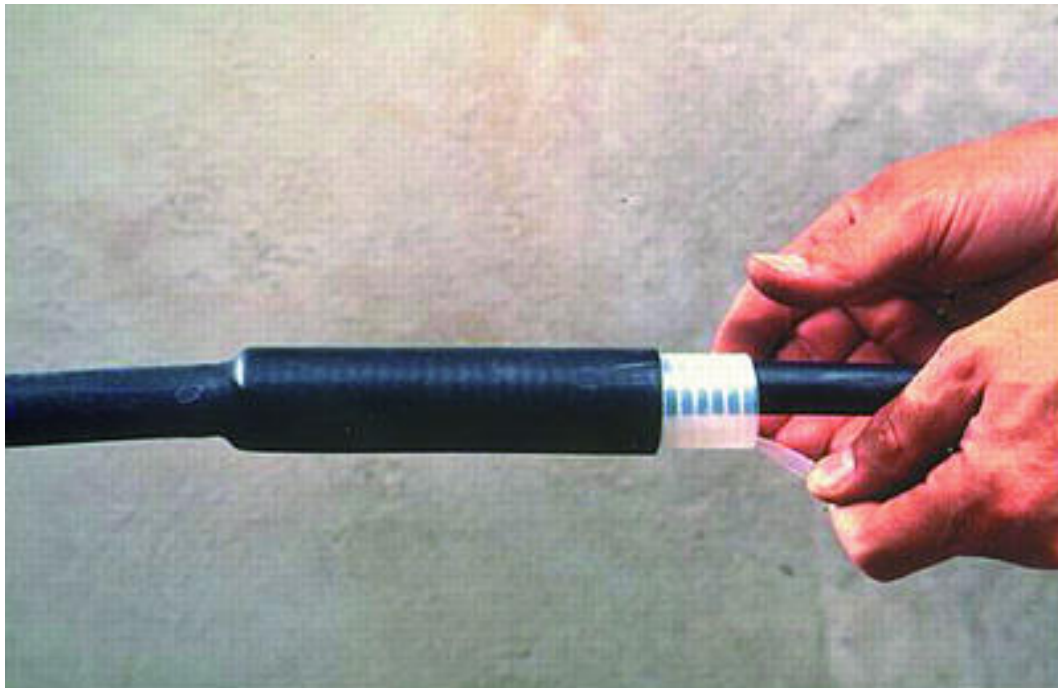
3M™ Cold Shrink LC Series Joints have been designed for multi core Low Voltage Power Cables up to and including 1.9/3.3kV. Also suitable for some multi pair cables. Designed for flexible or trailing cables, Cable Tray applications, and Indoor applications. Suitable for Cable Type XLPE/PVC Insulated, 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



## Product Selection: 1-4 Core Power 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		
<b>LC0 *</b>	N/A	1.5 – 4	1.5 – 2.5	N/A	N/A	10.0 – 17.0	4 – 15
<b>LC1</b>	N/A	1.5 – 4	1.5 – 4	1.5 – 2.5	N/A	16.1 – 33.1	9 – 15
<b>LC2</b>	50 – 95	6 – 10	6 – 10	4 – 6	N/A	16.1 – 33.1	14 – 22
<b>LC3</b>	120 – 150	16 – 50	16 – 25	10 – 16	N/A	16.1 – 33.1	18.5 – 29
<b>LC4</b>	185 – 400	70 – 120	35 – 70	25 – 50	16 – 50	24.9 – 56.4	23.5 – 37
<b>LC5</b>	500 – 630	150 – 185	95 – 150	70 – 120	70 - 150	37.8 – 84.3	31 – 50
<b>LC6</b>	800 – 1000	240 - 300	185 - 240	150 - 185	185 - 240	37.8 – 84.3	44 – 70
<b>LC7</b>	N/A	N/A	300	240 - 300	300	62.5 – 128.5	44 - 70

\*Suitable for smaller cables such as BFOU Offshore/Shipwiring Cables

## Product Selection: 150/250V Instrumentation & Control Cables

RFOU Cables	Nominal Conductor Area (mm <sup>2</sup> )		
	0.75	1.5	2.5
1 Pair	LC0	LC0	LC0
2 Pair	LC0	LC0	LC1
3 Triple	Tba	LC2	Tba
5 Pair	LC2	LC2	Tba
8 Pair	LC3	LC3	LC3
8 Triple	LC3	Tba	Tba
12 Pair	LC4	LC4	Tba
16 Pair	LC4	LC4	Tba
20 Pair	LC4	LC4	Tba
24 Pair	LC5	LC5	LC5

BFOU Cables	Nominal Conductor Area (mm <sup>2</sup> )		
	0.75	1.5	2.5
1 Pair	LC0	LC0	LC0
1 Triple	Tba	LC1	Tba
2 Pair	LC0	LC1	LC1
4 Pair	LC2	LC2	LC2
5 Pair	LC2	LC2	Tba
7 Pair	LC3	LC3	LC3
8 Pair	LC3	LC3	LC3
8 Triple	LC3	LC4	LC4
12 Pair	LC4	LC4	Tba
16 Pair	LC4	LC4	Tba
19 Triple	LC5	LC5	Tba
20 Pair	LC4	LC4	Tba

## **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 8420 Series Rubber Cold Shrink Tubes for details of Electrical properties and other data.

Type Test Report available on request, TR000080#2 (excludes impact testing)

## **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.

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