

Low Voltage - Cold Shrink Joints & Terminations

3M Cold Shrink Joints and Terminations use a series of Pre-stretched tubes, which are factory expanded and assembled onto a removable core. The core is removed after the tube is positioned for installation over an inline connection, or terminal lug, allowing the tube to shrink and provide a waterproof seal.



3M™ LC Series

Cold Shrink Splice Kits - Up to 3.3kV Cables

Suitable for Cable Types: XLPE/PVC Insulation, Lead Sheath, Steel Wire Armour, PVC Sheathed

For Cables rated: 0.6/1kV up to 1.9/3.3kV

Each kit includes EPDM Rubber Cold Shrink Tube, Armour continuity, Tape, and full instructions

Features

- Simple installation – no special tools required
- No torches or heat required
- Safe installation - replaces conventional resin jointing method
- Accommodates a wide range of cable sizes
- Improved tough rubber formulation withstands rough backfilling
- Resistant to acids, alkalis, ozone, UV light, and fungus
- Waterproof seal

Applications

Indoor, Outdoor, Overhead, or use in Cable Trays

Additional Information

KIT REF	ACCEPTED CABLE DIAMETER (COLD SHRINK TUBE)		DIAMETER OVER LEAD/ARMOUR (CONSTANT FORCE SPRING)	
	MIN (mm)	MAX (mm)	MIN (mm)	MAX (mm)
LC1	16.2	33.1	9	15
LC2	16.2	33.1	14	22
LC3	16.2	33.1	18.5	29
LC4	24.9	56.4	23.5	37
LC5	37.8	84.3	31	50
LC6	37.8	84.3	44	70

3M™ Network Rail Specification Products

APPLICATION	KIT	MIN DIA	MAX DIA	LENGTH
500/630/1000mm ² 3RD Rail Terminations	L041	24.4	98.2	228mm
161/240mm ² Inline joints or terminations	L042	15.2	61	191mm
500/630/800/1000 Inline Joint	LA11	38.1	114	457mm

NOMINAL CONDUCTOR AREA (mm ²)	2 CORE 1kv	3 CORE 1kv	4 CORE 1kv	3 CORE 3.3kv
1.5	LC1	LC1	LC1	N/A
2.5	LC1	LC1	LC1	N/A
4	LC1	LC1	LC2	N/A
6	LC2	LC2	LC2	N/A
10	LC2	LC2	LC3	N/A
16	LC3	LC3	LC3	LC4
25	LC3	LC3	LC3	LC4
35	LC3	LC3	LC4	LC4
50	LC3	LC4	LC4	LC4
70	LC4	LC4	LC5	LC5
95	LC4	LC5	LC5	LC5
120	LC4	LC5	LC5	LC5
150	LC5	LC5	LC6	LC5
185	LC5	LC6	LC6	LC6
240	LC6	LC6	N/A	LC6
300	LC6	N/A	N/A	N/A

3M™ Cold Shrink Joints 92-AC Series 6.6kV Cables

Suitable for 3 core Polymeric insulated, unshielded, armoured cable, rated to 3.6/6.6kV

- Simple installation – no special tools required
- No torches or heat required
- Safe installation - replaces conventional resin jointing method
- Accommodates a wide range of cable sizes
- Improved tough rubber formulation withstands rough backfilling
- Resistant to acids, alkalis, ozone, UV light, and fungus
- Waterproof seal

Part Number	Accepted Cable CSA (mm ²)
92-AC62-3	50 – 150
92-AC63-3	185 – 240

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3M™ Cold Shrink Cable Abandonment Kits

Suitable for Cable Types: XLPE/PVC Insulation, Lead Sheath, Steel Wire Armour, PVC Sheathed. Also suitable for Ship wiring Cables, Rubber/GSWB, and/or Unarmoured Cables

Up to and including 1.9/3.3kV. Single and Multi-core Cables

A complete kit with all the components required to abandon cables either temporarily or permanently. Provides environmental seal and mechanical protection, eliminates the requirements for heat during installation using 3M Cold Shrink technology.

Each kit includes Cold Shrink End Cap, Coldshrink Pre Stretched Tube, Armour continuity, tapes, and full instructions



ACCEPTED CABLE DIAMETER (mm)	KIT REFERENCE
12 - 18	CSCAK/1
18 - 25	CSCAK/2
25 - 42	CSCAK/3
42 - 55	CSCAK/4
56 - 81	CSCAK/5



Low Voltage Joints & Terminations

3M™ LCT Low Voltage Indoor Cold Shrink Terminations

For 3 Core Cables, Suitable for PILC, Steel Wire Armour, Sheathed, and / or XLPE/PVC, Lead Sheath, Steel Wire Armour, PVC Sheathed Cables, 0.6/1kV and 1.9/3.3kV

It is assumed that the Armour will be glanded separately.

NOMINAL CONDUCTOR AREA	KIT REF	ACCEPTED CABLE DIAMETER OVER LEAD SHEATH (CFS)		ACCEPTED CABLE DIAMETER OVER INSULATION (PST)	
		Max (mm)	Max (mm)	Max (mm)	Max (mm)
35 50	LCT/1 LCT/1	23.5	37	16	33
70 95 120	LCT/2 LCT/2 LCT/2	31	50	16	33
150 185	LCT/3 LCT/3	44	70	19	40
240 300 400	LCT/4 LCT/4 LCT/4	TBA	TBA	TBA	TBA