



Hazard Area Joint & Termination Kits



CABLE JOINTS, CABLE TERMINATIONS, CABLE GLANDS, CABLE CLEATS
FEEDER PILLARS, FUSE LINKS, ARC FLASH, CABLE ROLLERS, CUT-OUTS

11KV 33KV CABLE JOINTS & CABLE TERMINATIONS
FURSE EARTHING
www.cablejoints.co.uk
Thorne and Derrick UK

Tel 0044 191 490 1547 Fax 0044 191 477 5371
Tel 0044 117 977 4647 Fax 0044 117 9775582

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There is no room for compromise in the matter of safety where electricity and electrical installations are concerned. At 3M we make every effort to maximise your safety and installation reliability. You are working within a hazardous environment, so our aim is to reduce unnecessary complications during installation.

Our manufacturing and laboratory site is ISO 9001 certified and all products are rigorously tested to ensure compliance with European standards. We have a comprehensive traceability procedure for all our cable accessories. All kits include installation instructions which exceed European requirements, because your safety is important to 3M.



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Low Voltage
Joints &
Terminations

Cold Shrink tubes
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Earthing Kits

Resins

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Joints &
Terminations

Hazard Area
Joint &
Termination Kits

Cable & Wire
Management

Lugs &
Connectors

Heat Shrink

Cable & Fault
Locators & Electronic
Marker Systems



3M™ In-line Joints for Hazardous Area Armoured Power Cables – Scotchcast™ LR Series Joints

In-line joints for Armoured PVC & XLPE Power cables - 0.6/1kV and up to 3.3kV - Hydro-Carbon Resistant/Flame Retardant Resin Encapsulated - For use in Petrochem Zones 1 & 2.

Also suitable for Lead sheathed cables, and Transition Joints.

Includes Scotchcast™ 1400U Resin that makes it suitable for areas where there is danger of gas, oil, sewage or chemical spillage.

NOMINAL CONDUCTOR AREA (mm ²)	SINGLE CORE 0.6/1KV	2 CORE 0.6/1KV	3 CORE 0.6/1KV	4 CORE 0.6/1KV
1.5	N/A	LR20	LR20	LR20
2.5	N/A	LR20	LR20	LR20
4	N/A	LR20	LR20	LR21
6	N/A	LR21	LR21	LR21
10	N/A	LR31	LR31	LR31
16	N/A	LR31	LR31	LR32
25	N/A	LR32	LR40	LR40
35	N/A	LR40	LR41	LR42
50	LR21	LR41	LR41	LR50
70	LR30	LR50	LR50	LR51
95	LR30	LR50	LR51	LR60
120	LR40	LR51	LR61	LR61
150	LR41	LR60	LR70	LR70
185	LR41	LR61	LR70	LR71
240	LR50	LR70	LR71	LR80
300	LR50	LR71	LR71	LR80
400	LR51	LR72	LR80	LR81
500	LR51	N/A	N/A	N/A
630	LR61	N/A	N/A	N/A
800	LR62	N/A	N/A	N/A
1000	LR72	N/A	N/A	N/A

SINGLE CORE 1.9/3.3KV	3 CORE 1.9/3.3KV
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	LR42
N/A	LR42
N/A	LR43
LR32	LR51
LR32	LR52
LR32	LR61
LR42	LR61
LR42	LR61
LR42	LR71
LR50	LR72
LR52	LR80
LR52	LR80
LR53	N/A
LR61	N/A
LR62	N/A
LR72	N/A

Additional Information

Kit Ref	TO SUIT CABLE DIAMETER		TO SUIT DIAMETER OVER LEAD SHEATH		TO SUIT DIAMETER OVER ARMOUR	
	MIN (mm)	MAX (mm)	MIN(mm)	MAX (mm)	MIN (mm)	MAX (mm)
LR20	14	32	9	15	9	15
LR21	14	32	9	15	14	22
LR30	23	37	9	15	14	22
LR31	23	37	14	22	14	22
LR32	23	37	14	22	18.5	29
LR40	28	51	14	22	18.5	29
LR41	28	51	18.5	29	18.5	29
LR42	28	51	18.5	29	23.5	37
LR43	28	51	23.5	37	23.5	37
LR50	33	60	18.5	29	23.5	37
LR51	33	60	23.5	37	23.5	37
LR52	33	60	23.5	37	31	50
LR53	33	60	31	50	31	50
LR60	48	80	23.5	37	31	50
LR61	48	80	31	50	31	50
LR62	48	80	31	50	44	70
LR70	45	90	31	50	31	50
LR71	45	90	31	50	44	70
LR72	45	90	44	70	44	70
LR80	45	100	44	70	44	70
LR81	45	100	44	70	58	94



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 Cable & Electronic Marker Systems

Hazard Area Joint & Termination Kits



3M™ In-Line Joints for Hazardous Area Un-armoured Power Cables - Scotchcast™ 92-U Series Joints

In-Line Joint for Un-Armoured PVC & XLPE Insulated Cables - 0.6/1kv Hydro-carbon resistant / Flame retardant Resin Encapsulated - for use in Petrochem Zones 1 & 2

Includes Scotchcast™ 1400U Resin that makes it suitable for areas where there is danger of gas, oil, sewage or chemical spillage.

NOMINAL CONDUCTOR AREA (mm ²)	NBR OF CORES	KIT REF	CABLE DIAMETER	
			Min (mm)	Max (mm)
1.5	2	92-A1U	8	26
	3	92-A1U		
	4	92-A1U		
2.5	2	92-A1U	8	26
	3	92-A1U		
	4	92-A1U		
4	2	92-A1U	8	26
	3	92-A1U		
	4	92-A2U		
6	2	92-A2U	14	32
	3	92-A2U		
	4	92-A2U		
10	2	92-A2U	14	32
	3	92-A2U		
	4	92-A2U		
16	1	92-A2U	14	32
	2	92-A2U		
	3	92-A3U		
	4	92-A3U		
25	1	92-A2U	14	32
	2	92-A2U		
	3	92-A3U		
	4	92-A4U		
35	1	92-A2U	23	37
	2	92-A3U		
	3	92-A4U		
	4	92-A4U		
50	1	92-A2U	14	32
	2	92-A3U		
	3	92-A4U		
	4	92-A4U		

NOMINAL CONDUCTOR AREA (mm ²)	NBR OF CORES	KIT REF	CABLE DIAMETER	
			Min (mm)	Max (mm)
70	1	92-A2U	14	32
	2	92-A4U		
	3	92-A5U		
	4	92-A5U		
95	1	92-A2U	14	32
	2	92-A4U		
	3	92-A5U		
	4	92-A5U		
120	1	92-A3U	23	37
	2	92-A5U		
	3	92-A5U		
	4	92-A5U		
150	1	92-A3U	23	37
	2	92-A5U		
	3	92-A6U		
	4	92-A6U		
185	1	92-A3U	23	37
	2	92-A5U		
	3	92-A6U		
	4	92-A6U		
240	1	92-A4U	28	51
	2	92-A6U		
	3	92-A6U		
	4	92-A7U		
300	1	92-A4U	28	51
	2	92-A6U		
	3	92-A7U		
	4	92-A7U		
400	1	92-A4U	28	51
	2	92-A7U		
	3	92-A7U		
500	1	92-A5U	33	60
630	1	92-A5U	33	60
800	1	92-A6U	48	80
1000	1	92-A6U	48	80

Note: These kits do not include armour continuity

No. of Cores	KIT REF	CABLE SIZE	
		min	max
2 to 6	CR2	14	32
7 to 12	CR3	23	37
14 to 21	CR4	28	51
24 to 37	CR5	33	60

3M™ LV Inline Joints for Hazardous Area Control Cables - Scotchcast™ CR Series

In-line joints for 0.6/1KV XLPE & PVC Insulated, Lead sheathed Control cables - Hydro-Carbon Resistant/Flame Retardant Resin Encapsulated - For use in Petrochem Zones 1 & 2

For Conductor Sizes: 1.5mm² and 2.5mm²

Includes Scotchcast™ 1400U Resin that makes it suitable for areas where there is danger of gas, oil, sewage or chemical spillage.



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Heat Shrink
Cable & Fault Locators & Electronic Marker Systems

No. of Cores	KIT REF	CABLE SIZE	
		min	max
1	IR20	14	32
2	IR21	14	32
5	IR30	23	37
10	IR40	28	51
15	IR50	33	60
20	IR51	33	60
30	IR60	48	80
50	IR61	48	80

3M™ LV In-Line Joints for Hazardous Area Instrumentation Cables – Scotchcast™ IR Series

In-line joints for 0.6/1kV Polyethylene Insulated, Lead sheathed, Armoured Instrumentation cables - Hydro-Carbon Resistant/Flame Retardant Resin Encapsulated -For use in Petrochem Zones 1 & 2.

For Conductor Sizes: 0.5mm² solid, 0.5mm² Flexible, 1.0mm² solid, or 1.5mm² stranded conductors.

Suitable for cables with either unscreened pairs, individually screened pairs, collectively screened pairs, or individually and collectively screened pairs.

Includes Scotchcast™ 1400U Resin that makes it suitable for areas where there is danger of gas, oil, sewage or chemical spillage.



3M™ In-Line Joints for Mines & Quarries - Power, and Signal & Telephone Cables

In Line Joints for Power unscreened cables rated up to & including 3.3kV, and Signal & Telephone Cables.

Includes Scotchcast™ 1400U Resin that makes it suitable for areas where there is danger of gas, oil, sewage or chemical spillage.

Simple combined earth screen and armour continuity system, Fire resistant, Moisture proof, Approved by UK Coal.

Nominal Conductor Area mm ²			1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185
0.6/1KV Unscreened NCB SPEC. 295	2 CORE	SWA	L1	L1	L1	L2	L2	L2								
	3	SWA	L1	L1	L2	L2	L2	L3	L3	L4	L4	L5	L5	L6	L6	
	3 CORE	DWA	L2	L2	L3	L3	L4									
	4	SWA	L1	L1	L2	L2	L2	L3	L4	L4	L5	L5	L5	L6	L6	
3.3KV Unscreened NCB SPEC. 295	CORE	DWA	L2	L3	L3	L4	L4									
	3	SWA								L5	L5	L5	L6	L6	L6	L6
	CORE	DWA								L5	L5	L5	L6	L6	L6	L6

Number of pairs			1	2	4	7	10	12	19	27	30	37	46	61	91
Telephone Cables	SWA		T1	T1	T2	T2	T3	T3	T4	T5	T5	T5	T5	T5	T6
NCB SPEC. 492	DWA		T2	T2	T2	T3	T3	T3	T4	T5	T5	T5	T5	T5	T6

Number of pairs			2	4	7	10	12	19	37	46	61	91
Signalling Cables	SWA		T1	T1	T2	T2	T2	T3	T4	T5	T5	
NCB SPEC. 493	DWA		T2	T2	T2	T2	T2	T3	T3	T4	T5	T5

Part Number	Application Range CSA
92-AW612-3	70 – 95 mm ²
92-AW622-3	120 – 185mm ²
92-AW642-3	240 – 400 mm ²

3M™ QS1000 In-Line Joints for Mines & Quarries – 3 Core Screened Power Cables rated 6.6/11kV

Cold Shrink One piece silicone splice body, encapsulated using Scotchcast™ 1400U Resin that makes it suitable for areas where there is danger of gas, oil, sewage or chemical spillage. Mechanical connectors are included.

Fire resistant, Moisture proof, Approved by UK Coal.



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