



# Power cable accessories catalogue



## Jointing Tech



**THE POWER TO DELIVER**



# Jointing Tech

## Capability | Your connection point

### **Staying up to date with the latest network approval documents can be time consuming and complicated.**

That's why the Jointing Tech team are on hand to do it for you, saving you time and money on your specialist power projects.

We have an up to date library of product approvals across the power transmission and distribution sectors, drawing on information from the DNO G81 documents, National Grid Asset Codes and Network Rail PADS approvals.

Jointing Tech are the single source for all your LV/MV and HV power cable and accessory materials.

Get in touch today to find out how we can help with your next project!

[www.jointingtech.co.uk](http://www.jointingtech.co.uk)

**THE POWER TO DELIVER**

## Foreword

### **As in previous years we again see changes throughout the generation, transmission, and distribution of electricity in the UK that affect us all.**

Within the renewables sector the rapid growth of solar power has declined due to the change in tariff support. However, from this downturn new technology and opportunities have arisen with the demand for battery storage to help balance the power being fed into the National Grid.

In the rail sector the demand for extra passenger and freight capacity requires a corresponding increase in power distribution in both AC and DC applications as evidenced with large projects such as West Coast Mainline, South East PSU and of course Crossrail.

Electricity distribution is also undergoing a radical change with the growth of IDNO's and ICP's challenging the traditional DNO market. M&E contractors are also benefiting from the increase in residential, commercial and industrial developments and huge projects such as Hinkley Point C.

All the above offer major opportunities for companies willing to invest in products, staff and technical expertise to service a demanding customer base and Jointing Tech are proud to be at the forefront in meeting all these challenges.

We understand our clients deserve the best service we can offer, whether by supplying the correct product from industry leading manufacturers, providing comprehensive technical support with a fully equipped training centre or with a nationwide next day delivery service.

Jointing Tech, as the UK's leading specialist power cable and accessories distributor, as well as the associate companies within our Group, are here to help you achieve your goals and we look forward to being part of your future success.



**Adam Lloyd**  
Managing Director



# Jointing Tech

## Jointing Tech | Partner Companies



### Langley Engineering

Langley Engineering are suppliers of medium voltage distribution equipment and accessories to the electrical distribution industry both in the UK and overseas.

Langley supply pad-mounted transformers, pole-top transformers, voltage regulators, CPS separable connectors, test leads and accessories throughout the utilities industries.

As sole UK agency partner for Eaton Cooper Power Systems they offer a fully integrated, turnkey solution in the power generation, transmission and distribution environments.

The dedicated, knowledgeable team at Langley have more than 200 years' experience between them in the transformer, switchgear and separable connector markets and are on hand to help.

For further details visit the Langley Engineering website at: [www.langleyengineering.co.uk](http://www.langleyengineering.co.uk)



### Jointing Tech - Trace Heating Tech

Trace Heating Tech are the UK's largest distributor for Raychem trace heating products.

With more than 25 years' experience within the industry we offer design, supply and installation packages irrespective of project size.

Jointing Tech – Trace Heating Tech are proud to support some of the UK's largest M&E and insulation contractors along with consultants and various other engineers on the most prestigious and innovative projects throughout the UK and Europe.

As a trusted market leader in commercial and industrial Trace Heating with leak detection and electric underfloor heating adding to the packages available.

If you would like to know more about Trace Heating Tech and their vast product range and services please visit: [www.traceheatingtech.co.uk](http://www.traceheatingtech.co.uk)



# Jointing Tech

## Contents

Company Capability	<b>2</b>
Cable Glands	<b>7</b>
Cable Lugs and Connectors	<b>19</b>
Cable Cleats	<b>37</b>
Cable Ties and Marking Systems	<b>57</b>
Cable Pulling Equipment	<b>67</b>
Insulation Products	<b>77</b>
LV Joints	<b>87</b>
MV Terminations	<b>97</b>
MV Joints	<b>129</b>
HV Joints	<b>143</b>
HV Terminations	<b>147</b>
Link Boxes	<b>151</b>
Resin, Compounds and Accessories	<b>155</b>
Earthing and Lightning Protection	<b>161</b>
Tapes, Aerosols and Accessories	<b>183</b>
Cable Transits	<b>195</b>
Cable Troughing	<b>203</b>
Tools & Equipment	<b>205</b>
Cable Data	<b>225</b>
Product Index	<b>237</b>
Part Number Index	<b>238</b>



From Scotland to Southampton,

Carlisle to Croydon,

Newcastle to Newquay

and everywhere in between

Jointing Tech offer same day dispatch on stock orders received by 4pm.



# Cable Glands

## Contents

Stuffing Glands	<b>8</b>
Industrial Glands	<b>10</b>
Integral Earth Glands	<b>14</b>
Accessories	<b>16</b>

## Single Core Armoured Cable Recommendations XLPE/AWA/PVC – 600/1000 Volt Copper Conductors

Product	Copper Conductor Size mm <sup>2</sup>												
	50	70	95	120	150	185	240	300	400	500	630	800	1000
Brass Stuffing Gland Size A1/A2	32	32	40	40	40	40	50S	50	50	63S	63S	75S	75
Aluminium Gland Size GACW	25	25	25	25	32	32	40	40	50S	50	50	63	63

## Single Core Unarmoured Cable Recommendations XLPE/PVC – 600/1000 Volt Copper Conductors

Product	Copper Conductor Size mm <sup>2</sup>												
	50	70	95	120	150	185	240	300	400	500	630	800	1000
Brass Stuffing Gland Size A1/A2	25	25	25	32	32	32	40	40	50S	50	50	63S	63

## Nylon Stuffing Glands

### FEATURES

- Designed to provide sealing and retention with unarmoured cables
- Suitable for indoor and outdoor use
- Manufactured from Polyamide PA6.6
- Sealing ring manufactured from Neoprene 50 sh A
- Available in black as standard and light grey and dark grey on request
- Temperature range -20°C to + 90°C
- Flammability rating UL 94 - V2
- IP68 rated

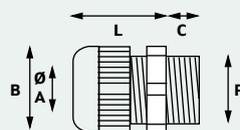


**Indoor/outdoor for unarmoured cables**

Part number	Size	Diameter Range
A2 Nylon 16	16	5-10mm
A2 Nylon 20	20	7-13mm
A2 Nylon 25	25	10-17mm
A2 Nylon 32	32	13-21mm

Part number	Size	Diameter Range
A2 Nylon 40	40	19-28mm
A2 Nylon 50	50	27-35mm
A2 Nylon 63	63	34-45mm

### Gland Details



Size	P	Fixing Hole Diameter mm	Diameter A Min-Max mm	B Spanner mm	C mm	L Min-Max mm
16	M16 x 1.5	16.5	5-10	19	8	22-27
20	M20 x 1.5	20.5	7-13	25	9	24-30
25	M25 x 1.5	25.4	10-17	30	10	28-39
32	M32 x 1.5	32.5	13-21	36	10	33-44
40	M40 x 1.5	40.5	19-28	46	10	36-45
50	M50 x 1.5	50.5	27-35	55	12	43-52
63	M63 x 1.5	64.0	34-45	66	12	45-55



**Indoor/outdoor for unarmoured cables**

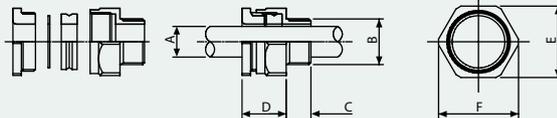
### FEATURES

- Brass indoor and outdoor cable gland and accessories
- For circular, unarmoured plastic or rubber sheathed cables
- Suitable for most climatic conditions, weatherproof and waterproof
- Kit comprises: A1/A2 gland, brass locknut and shroud
- Available in LSF version
- EN 50262
- BS 6121:Pt 1:1989
- Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface
- Service temperature -20°C to +90°C
- CuZn39Pb3 extruded brass alloy used for guaranteed strength and performance

Part number		Size
Standard	LSF	
A1/A2 20SS	A1/A2 20SS LSF	20SS
A1/A2 20S	A1/A2 20S LSF	20S
A1/A2 20	A1/A2 20 LSF	20
A1/A2 25	A1/A2 25 LSF	25
A1/A2 32	A1/A2 32 LSF	32
A1/A2 40	A1/A2 40 LSF	40

Part number		Size
Standard	LSF	
A1/A2 50S	A1/A2 50S LSF	50S
A1/A2 50	A1/A2 50 LSF	50
A1/A2 63S	A1/A2 63S LSF	63S
A1/A2 63	A1/A2 63 LSF	63
A1/A2 75S	A1/A2 75S LSF	75S
A1/A2 75	A1/A2 75 LSF	75

### Gland Details



Size	Cable Dimensions mm Overall Diameter A		Gland Dimensions mm				
			Entry Thread		Approx. Length from Shoulder D	Hexagon Size	
	Min	Max	Size B	Length C		Across Flats E	Across Corners F
20SS	3.5	8.5	M20×1.5	10	20	22.0	24.9
20S	8.0	11.5	M20×1.5	10	22	22.0	24.9
20	11.0	13.5	M20×1.5	10	22	24.0	26.8
25	13.0	19.5	M25×1.5	10	25	30.5	34.0
32	19.0	25.5	M32×1.5	10	25	42.4	48.0
40	25.0	32.0	M40×1.5	15	33	47.2	53.6
50S	31.5	37.0	M50×1.5	15	30	55.0	60.0
50	36.5	43.0	M50×1.5	15	30	56.4	61.5
63S	42.5	50.0	M63×1.5	15	34	70.1	77.2
63	49.5	55.0	M63×1.5	15	32	75.0	83.0
75S	54.5	61.0	M75×1.5	15	32	80.0	87.4
75	60.5	67.0	M75×1.5	15	40	85.0	95.0

Please refer to product selection table on page 38 to size product relative to cable type

**BW Gland Kit - Indoor Use**

**FEATURES**

- Brass indoor gland and accessories
- For galvanized-steel single-wire armour plastic or rubber sheathed cables
- For use in dry, dust free, situations
- Provides mechanical retention and electrical continuity via armour locking mechanism
- Kit comprises: BW gland, brass earth tag, zinc plated steel locknut and shroud
- Available in LSF version
- EN 50262
- BS 6121:Pt 1 :1989
- CuZn39Pb3 extruded brass alloy used for guaranteed strength and performance
- Service temperature range -20°C to +90°C

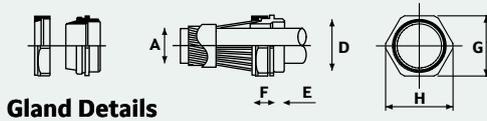


**Indoor type for SWA cable**

Part number		Size
Standard	LSF	
<b>BW20S</b>	<b>BW20S LSF</b>	20S
<b>BW20</b>	<b>BW20 LSF</b>	20
<b>BW25</b>	<b>BW25 LSF</b>	25
<b>BW32</b>	<b>BW32 LSF</b>	32
<b>BW40</b>	<b>BW40 LSF</b>	40

Part number		Size
Standard	LSF	
<b>BW50</b>	<b>BW50 LSF</b>	50
<b>BW63</b>	<b>BW63 LSF</b>	63
<b>BW75S</b>	<b>BW75S LSF</b>	75S
<b>BW75</b>	<b>BW75 LSF</b>	75

**Gland Details**



**Gland Details**

Size	Cable Dimensions mm	Gland Dimensions mm					
		Under Armour Diameter A Max	Entry Thread		Approx. Length from Shoulder F	Hexagon Size	
			Size D	Length E		Across Flats G	Across Corners H
20S	11.6	M20×1.5	10	24	22.0	24.9	
20	13.9	M20×1.5	10	25	27.0	30.5	
25	19.9	M25×1.5	10	26	32.9	36.8	
32	26.2	M32×1.5	10	28	42.4	47.8	
40	32.1	M40×1.5	15	25	50.0	57.0	
50	44.0	M50×1.5	15	36	70.1	77.2	
63	55.9	M63×1.5	15	30	80.0	87.4	
75S	61.9	M75×1.5	15	40	85.0	95.0	
75	67.9	M75×1.5	15	40	98.8	109.2	

CW Gland Kit - Outdoor Use



Indoor/outdoor type for SWA cable

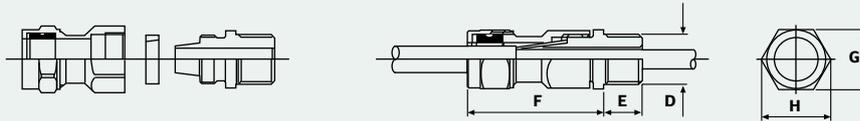
FEATURES

- Brass indoor and outdoor cable gland and accessories
- For circular, galvanized-steel single-wire-armour plastic or rubber sheathed cables
- Outer seal grips sheath of cable
- For use in most climatic conditions, weatherproof and waterproof
- Three part armour lock with separate armour locking ring, ideal for checking electrical continuity
- Kit comprises: CW gland, brass earth tag, zinc plated steel locknut and shroud
- Available in LSF version
- EN 50262
- BS 6121:Pt 1:1989
- Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface
- Service temperature range -20°C to +90°C
- CuZn39Pb3 extruded brass alloy used for guaranteed strength and performance

Part number		Size
Standard	LSF	
CW20SS	CW20SS LSF	20SS
CW20S	CW20S LSF	20S
CW20	CW20 LSF	20
CW25	CW25 LSF	25
CW32	CW32 LSF	32
CW40	CW40 LSF	40

Part number		Size
Standard	LSF	
CW50S	CW50S LSF	50S
CW50	CW50 LSF	50
CW63	CW63 LSF	63
CW75	CW75 LSF	75
CW85	CW85 LSF	85

Gland Details



Size	Cable Dimensions mm				Gland Dimensions mm				
	Under Armour Diameter Max	Overall Diameter		Armour Wire Diameter	Entry Thread		Approx. Length from Shoulder F	Hexagon Size	
		Min	Max		Size D	Length E		Across Flats G	Across Corners H
20SS	8.6	8.0	13.2	0.9	M20×1.5	10	44	23.4	26.7
20S	11.6	8.0	15.8	0.9	M20×1.5	10	46	25.7	29.2
20	13.9	11.7	20.8	0.9/1.25	M20×1.5	10	46	30.5	34.0
25	19.9	17.0	27.2	1.25/1.6	M25×1.5	10	51	37.6	42.2
32	26.2	23.5	33.5	1.6/2.0	M32×1.5	10	56	47.3	53.6
40	32.1	29.0	39.9	1.6/2.0	M40×1.5	15	59	56.4	61.5
50S	38.1	38.0	46.2	2.0/2.5	M50×1.5	15	64	65.5	72.1
50	44.0	39.5	52.6	2.0/2.5	M50×1.5	15	64	70.1	77.2
63	55.9	51.3	65.3	2.5	M63×1.5	15	67	80.0	87.4
75	67.9	62.5	78.0	2.5	M75×1.5	15	76	98.8	109.2
85	74.0	68.0	88.0	3.15	M85×2	20	110	115.0	126.0

Please refer to product selection table on page 38 to size product relative to cable type

**CW Aluminium Gland Kit**

- FEATURES**
- Aluminium indoor and outdoor cable gland and accessories
  - For circular, aluminium single-wire-armour plastic or rubber sheathed cables
  - Outer seal grips sheath of cable
  - For use in most climatic conditions, weatherproof and waterproof
  - Three part armour lock with separate armour locking ring, ideal for checking electrical continuity
  - Kit comprises: CW aluminium gland, aluminium earth tag, aluminium locknut and shroud
  - Available in LSF version
  - EN 50262
  - BS 6121:Pt 1:1989
  - Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface
  - Service temperature range -20°C to +90°C
  - 6082 extruded aluminium alloy used for guaranteed strength and performance

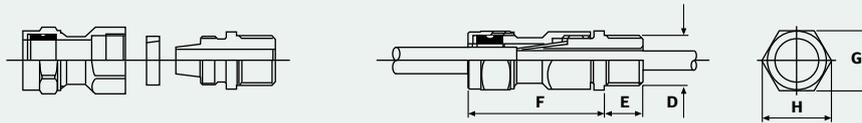


**Indoor/outdoor type for aluminium wire armoured cable**

Part number		Size
Standard	LSF	
GACW20S	GACW20LSLF	20S
GACW20	GACW20LSF	20
GACW25	GACW25LSF	25
GACW32	GACW32LSF	32
GACW40	GACW40LSF	40

Part number		Size
Standard	LSF	
GACW50S	GACW50LSLF	50S
GACW50	GACW50LSF	50
GACW63	GACW63LSF	63
GACW75	GACW75LSF	75

**Gland Details**



Size	Cable Dimensions mm				Gland Dimensions mm				
	Under Armour Diameter Max	Overall Diameter		Armour Wire Diameter	Entry Thread		Approx. Length from Shoulder F	Hexagon Size	
		Min	Max		Size D	Length E		Across Flats G	Across Corners H
20	13.9	11.7	20.8	0.9/1.25	M20×1.5	10	46	30.5	34.0
25	19.9	17.0	27.2	1.25/1.6	M25×1.5	10	51	37.6	42.2
32	26.2	23.5	33.5	1.6/2.0	M32×1.5	10	56	47.3	53.6
40	32.1	29.0	39.9	1.6/2.0	M40×1.5	15	59	56.4	61.5
50S	38.1	38.0	46.2	2.0/2.5	M50×1.5	15	64	65.5	72.1
50	44.0	39.5	52.6	2.0/2.5	M50×1.5	15	64	70.1	77.2
63	55.9	51.3	65.3	2.5	M63×1.5	15	67	80.0	87.4
75	67.9	62.5	78.0	2.5	M75×1.5	15	76	98.8	109.2

Please refer to product selection table on page 38 to size product relative to cable type

## E1W Brass Gland Kit



**Indoor/outdoor  
weatherproof for SWA  
cables**

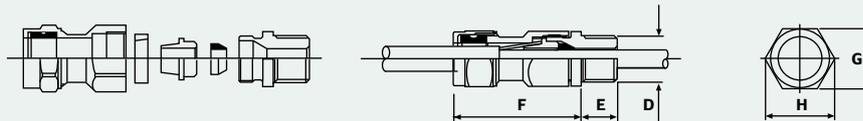
### FEATURES

- Brass indoor and outdoor cable gland and accessories
- For circular plastic or rubber sheathed cables with extruded bedding
- Outer seal grips sheath of cable
- Inner seal grips bedding layer of cable
- For use in most climatic conditions, weatherproof and waterproof
- Three part armour lock with separate armour locking ring, ideal for checking electrical continuity
- Kit comprises: E1W gland, brass earth tag, zinc plated steel locknut and shroud
- Available in LSF version
- EN 50262
- BS 6121:Pt 1:1989
- Inner and outer seal rated to IP66
- Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface
- Service temperature range -20°C to +90°C
- CuZn39Pb3 extruded brass alloy used for guaranteed strength and performance

Part number		Size
Standard	LSF	
E1W20SS	E1WLSF20SS	20SS
E1W20S	E1WLSF20S	20S
E1W20	E1WLSF20	20
E1W25	E1WLSF25	25
E1W32	E1WLSF32	32
E1W40	E1WLSF40	40

Part number		Size
Standard	LSF	
E1W50S	E1WLSF50S	50S
E1W50	E1WLSF50	50
E1W63S	E1WLSF63S	63S
E1W63	E1WLSF63	63
E1W75S	E1WLSF75S	75S
E1W75	E1WLSF75	75

### Gland Details



Size	Cable Dimensions mm					Gland Dimensions mm				
	Under Armour Diameter Max		Overall Diameter		Armour Wire Diameter	Entry Thread		Approx. Length from Shoulder F	Hexagon Size	
	Min	Max	Min	Max		Size D	Length E		Across Flats G	Across Corners H
20SS	6.3	8.6	8.0	13.2	0.9	M20×1.5	15	44	23.4	26.7
20S	8.7	11.6	8.0	15.8	0.9/1.25	M20×1.5	15	46	25.7	29.2
20	11.7	13.9	11.7	20.8	0.9/1.25	M20×1.5	15	46	30.5	34.0
25	13.0	19.9	17.0	27.2	1.25/1.6	M25×1.5	15	51	37.6	42.2
32	20.0	26.2	23.5	33.5	1.6/2.0	M32×1.5	15	56	47.3	53.6
40	26.3	32.1	29.0	39.9	1.6/2.0	M40×1.5	15	59	56.4	61.5
50S	32.2	38.1	38.0	46.2	2.0/2.5	M50×1.5	15	64	60.0	66.0
50	38.2	44.0	39.5	52.6	2.0/2.5	M50×1.5	15	64	70.1	77.2
63S	44.1	50.0	50.0	58.9	2.5	M63×1.5	15	67	75.0	83.0
63	50.1	55.9	51.3	65.3	2.5	M63×1.5	15	67	80.0	87.4
75S	56.0	61.9	62.0	71.6	2.5	M75×1.5	15	76	90.2	99.1
75	62.0	67.9	62.5	78.0	2.5	M75×1.5	15	76	98.8	109.2

Please refer to product selection table on page 38 to size product relative to cable type

## CW Brass Gland with Integral Earth

### FEATURES

- Brass indoor and outdoor cable gland with earth bonding connection
- Suitable for circular galvanised steel single wire armoured, plastic or rubber sheathed cables
- Outer seal grips sheath of cable
- For use in most climatic conditions, weatherproof and waterproof
- Three part armour lock with separate armour locking ring
- Kit comprises CW brass gland with integral earth & locknut
- For use in high fault current applications
- EN 50262
- Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface
- Service temperature range -20°C to +90°C
- Integral earth connection complies with GDCD 190 Category A (43.3kA for 1 second)

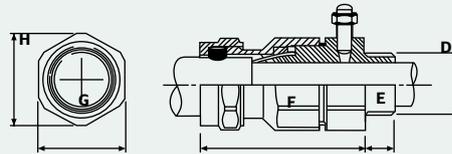


**For steel wire armour cable**

Part number	Size
CWCIEL20S	20S
CWCIEL20	20
CWCIEL25	25
CWCIEL32	32
CWCIEL40	40

Part number	Size
CWCIEL50	50
CWCIEL63	63
CWCIEL75	75
CWCIEL85	85

### Gland Details



Size	Cable Dimensions accommodated mm					Gland Dimensions mm				
	Under Armour Diameter Max		Overall Diameter		Armour Wire Diameter	Entry Thread		Approx. Length from Shoulder F	Hexagon Size	
	Min	Max	Min	Max		Size D	Length E		Across Flats G	Across Corners H
20S	-	11.6	8.0	15.8	0.9/1.25	M20×1.5	10	56	30.5	34.0
20	-	13.9	11.7	20.8	0.9/1.25	M20×1.5	10	56	30.5	34.0
25	-	19.9	17.0	27.2	1.25/1.6	M25×1.5	10	63	42.4	48.0
32	-	26.2	23.5	33.5	1.6/2.0	M32×1.5	10	73	56.4	61.5
40	-	32.1	29.0	39.9	1.6/2.0	M40×1.5	15	77	56.4	61.5
50	-	44.0	39.5	52.6	2.0/2.5	M50×1.5	15	84	70.1	77.2
63	-	55.9	51.3	65.3	2.5	M63×1.5	15	84	90.1	100.0
75	-	67.9	62.5	78.0	2.5	M75×1.5	15	94	106.2	117.0
85	-	74.0	68.0	88.0	3.15	M85×2	20	125	115.0	126.0

## CW Aluminium Gland with Integral Earth



**For aluminium wire  
armour cable**

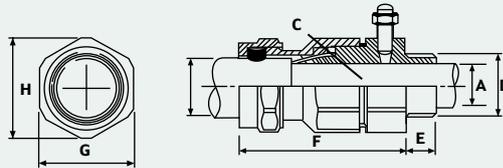
### FEATURES

- Aluminium indoor and outdoor cable gland with earth bonding connection
- Suitable for circular aluminium single wire armoured, plastic or rubber sheathed cables
- Outer seal grips sheath of cable
- For use in most climatic conditions, weatherproof and waterproof
- Three part armour lock with separate armour locking ring
- Kit comprises CW aluminium gland with integral earth and locknut
- For use in high fault current applications
- EN 50262
- Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface
- Service temperature range -20°C to +90°C
- Integral earth connection complies with GDCD 190 Category A (43.3kA for 1 second)

Part number	Size
GACWCIEL32	32
GACWCIEL40	40
GACWCIEL50	50

Part number	Size
GACWCIEL63	63
GACWCIEL75	75

### Gland Details



Size	Cable Dimensions accommodated mm					Gland Dimensions mm				
	Under Armour Diameter A Max		Overall Diameter B		Armour Wire Diameter C	Entry Thread		Approx. Length from Shoulder F	Hexagon Size	
	Min	Max	Min	Max		Size D	Length E		Across Flats G	Across Corners H
32	-	26.2	23.5	33.5	1.6/2.0	M32×1.5	10	73	56.4	61.5
40	-	32.1	29.0	39.9	1.6/2.0	M40×1.5	15	77	56.4	63.2
50	-	44.0	39.5	52.6	2.0/2.5	M50×1.5	15	84	70.1	77.2
63	-	55.9	51.3	65.3	2.5	M63×1.5	15	84	90.2	99.1
75	-	67.9	62.5	78.0	2.5	M75×1.5	15	94	106.2	117.0

## Insulated Adaptor

**FEATURES**

- Used where the enclosure is not relied upon for bonding the cable to the earth, for example:
- To prevent the heating effects of circulating currents
- To segregate low voltage and high voltage earth fault paths
- Impact resistance: 7 Joules
- Ambient Temperature: -50°C to +85°C
- Material: Brass (481AA - Series) or Aluminium (481AL - Series)
- Insulator: 30% glass filled nylon 12
- Certified: EExd IIC for hazardous area applications



Part number	Size
481AA53	20
481AA55	25
481AA56	32
481AA57	40

Part number	Size
481AA59	50
481AA61	63
481AA63	75

**Insulated Adaptor Details**

Reference Number	Equipment Thread Size	Hex A/F	Hex A/C	Total Length	Male Length	Female Depth	Bore
481AA 53	M20	30.5	35.5	54.0	16.0	17.0	13.5
481AA 55	M25	37.6	43.2	54.0	16.0	17.0	19.0
481AA 56	M32	47.2	54.3	54.0	16.0	17.0	25.0
481AA 57	M40	55.9	64.1	54.0	16.0	17.0	30.0
481AA 59	M50	70.1	80.8	54.0	16.0	17.0	40.5
481AA 61	M63	80.0	92.0	54.0	16.0	17.0	53.0
481AA 63	M75	95.3	109.5	54.0	16.0	17.0	65.0

## Reducers

**FEATURES**

- Problems caused by dissimilar threads can occur in both hazardous and industrial environments
- Reducers provide a means of connection between dissimilar thread sizes
- Effectively reduces the threaded entry diameter of an enclosure to accept a gland or fitting with a smaller thread. Reducers may also be supplied to accept smaller glands of alternative threads forms
- EExd and EExe certified as ATEX, CSA, IECE and GOST Standards



**EExd & EExe Reducers**

Part number	Male Thread	Female Thread
MR2016	M20	M16
MR2520	M25	M20
MR3220	M32	M20
MR3225	M32	M25
MR4025	M40	M25

Part number	Male Thread	Female Thread
MR4032	M40	M32
MR5032	M50	M32
MR5040	M50	M40
MR6350	M63	M50

Also available in other sizes and stainless steel, aluminium or nylon

**Brass & Aluminium Earth Tags**



**FEATURES**

- Ensures earth continuity is maintained between the gland and the equipment
- Aluminium earth tags should be used with aluminium glands

Part number		Size
Brass	Aluminium	
428ET51	458ET51	16
428ET53	458ET53	20
428ET55	458ET55	25
428ET56	458ET56	32
428ET57	458ET57	40

Part number		Size
Brass	Aluminium	
428ET59	458ET59	50
428ET61	458ET61	63
428ET63	458ET63	75
428ET65	458ET65	85/90

**Brass, Steel & Aluminium Locknuts**



**FEATURES**

- Used to secure cable gland to the equipment where entry hole is not tapped
- Brass backnuts recommended for most corrosive environments
- Aluminium backnuts should be used with aluminium glands
- Steel locknuts are primarily for dry, low humidity environments

Part number			Size
Brass	Steel	Aluminium	
429AA51	439AA51	459AA51	16
429AA53	439AA53	459AA53	20
429AA55	439AA55	459AA55	25
429AA56	439AA56	459AA56	32
429AA57	439AA57	459AA57	40

Part number			Size
Brass	Steel	Aluminium	
429AA59	439AA59	459AA59	50
429AA61	439AA61	459AA61	63
429AA63	439AA63	459AA63	75
429AA69	439AA69	459AA69	85

**Sealing Washers**



**FEATURES**

- High performance sealing washers
- Improves the IP rating between the gland and the equipment.
- Fibre to BS6091 Pt1
- Nylon 6.6

Part number		Size
Fibre	Nylon	
41702-53	25111-003	20
41702-55	25111-005	25
41702-56	25111-006	32
41702-57	25111-007	40
41702-59	25111-009	50

Part number		Size
Fibre	Nylon	
41702-61	25111-011	63
41702-63	25111-013	75
41702-64	25111-014	85
41702-65	25111-015	90



# Jointing Tech

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- MV Terminations
- MV Power Cable
- Earthing Design
- Installation
- Lugs & Connectors
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**THE POWER TO DELIVER**

# Cable Lugs and Connectors

## Contents

Pre-Insulated Terminals	<b>20</b>
LV Lugs	<b>21</b>
LV Lugs & Splices	<b>23</b>
LV Mechanical Lugs	<b>26</b>
MV Lugs	<b>27</b>
MV Mechanical Lugs	<b>28</b>
MV Mechanical Lugs & Crimp Slices	<b>29</b>
MV Mechanical Connectors	<b>31</b>
MV/HV Mechanical Lugs	<b>33</b>
HV Mechanical Lugs	<b>34</b>
HV Mechanical Lugs & Connectors	<b>35</b>

## Ring Terminals

### FEATURES

- Pre-insulated halogen free ring type terminal with funnel entry



Part number	Colour	Hole Size	Conductor Size
RF-M	Red	3, 3.5, 4, 5, 6, 8, 10, 12mm	0.25-1.5mm <sup>2</sup>
BF-M	Blue	3, 3.5, 4, 5, 6, 8, 10, 12mm	1.5-2.5mm <sup>2</sup>
GF-M	Yellow	3.5, 4, 5, 6, 8, 10, 12mm	4-6mm <sup>2</sup>

## Butt Connectors

### FEATURES

- Pre-insulated straight connectors with funnel entry



Part number	Colour	Conductor Size
PL03-M	Red	0.25-1.5mm <sup>2</sup>
PL06-M	Blue	1.5-2.5mm <sup>2</sup>
PL1-M	Yellow	4-6mm <sup>2</sup>

## Pin Terminals

### FEATURES

- Pre insulated halogen free pin type terminal with funnel entry



Part number	Colour	Pin Length	Conductor Size
RF-P	Red	8, 10, 12mm	0.25-1.5mm <sup>2</sup>
BF-P	Blue	8, 10, 12mm	1.5-2.5mm <sup>2</sup>
GF-P	Yellow	10, 12, 14mm	4-6mm <sup>2</sup>

## Blade Terminals

### FEATURES

- Pre insulated halogen free blade type terminal with funnel entry



Part number	Colour	Blade Length	Conductor Size
RF-PP	Red	13, 17mm	0.25-1.5mm <sup>2</sup>
BF-PP	Blue	13, 17mm	1.5-2.5mm <sup>2</sup>
GF-PP	Yellow	13, 17mm	4-6mm <sup>2</sup>

Also available in this range are Fork terminals, male and female disconnect and end sleeves.

## LV Copper Lugs



### FEATURES

- Designed to be crimped on to a conductor to facilitate the termination of the cable via the lug hole
- Copper lugs are electrolytically tin plated to avoid oxidation
- Each terminal has a sight hole for visual inspection of the conductor inserted
- 1000V Rated

### LV copper tube crimping lugs

Part number	Hole Size	Conductor Size
<b>A03-M</b>	3.5, 4, 5, 6mm	1.5mm <sup>2</sup>
<b>A06-M</b>	3.5, 4, 5, 6, 8mm	2.5mm <sup>2</sup>
<b>A1-M</b>	3.5, 4, 5, 6, 8mm	4-6mm <sup>2</sup>
<b>A2-M</b>	3, 4, 5, 6, 8,10mm	10mm <sup>2</sup>
<b>A3-M</b>	4, 5, 6, 8,10,12mm	16mm <sup>2</sup>
<b>A5-M</b>	4, 5, 6, 8,10,12mm	25mm <sup>2</sup>
<b>A7-M</b>	5, 6, 8,10,12mm	35mm <sup>2</sup>
<b>A10-M</b>	6, 8,10,12, 14,16mm	50mm <sup>2</sup>
<b>A14-M</b>	6, 8,10,12, 14,16mm	70mm <sup>2</sup>
<b>A19-M</b>	8,10,12, 14,16, 20mm	95mm <sup>2</sup>

Part number	Hole Size	Conductor Size
<b>A24-M</b>	8,10,12, 14,16, 20mm	120mm <sup>2</sup>
<b>A30-M</b>	8,10,12, 14,16, 20mm	150mm <sup>2</sup>
<b>A37-M</b>	8,10,12, 14,16, 20mm	185mm <sup>2</sup>
<b>A48-M</b>	10,12, 14,16, 20mm	240mm <sup>2</sup>
<b>A60-M</b>	10,12, 14,16, 20mm	300mm <sup>2</sup>
<b>A80-M</b>	12,16,20mm	400mm <sup>2</sup>
<b>A100-M</b>	16, 20mm	500mm <sup>2</sup>
<b>A120-M</b>	16, 20mm	630mm <sup>2</sup>
<b>A160-M</b>	16, 20mm	800mm <sup>2</sup>
<b>A200-M</b>	16, 20mm	1000mm <sup>2</sup>

## LV Narrow Palm Copper Lugs



### FEATURES

- Designed to be crimped onto a conductor to facilitate the termination of the cable via the lug hole in tight spaces and reduced space terminal blocks
- Copper lugs are electrolytically tin plated to avoid oxidation
- Each terminal has a sight hole for visual inspection of the conductor inserted
- Please refer to our tooling and equipment section on page 212 for dies and tooling
- 1000V Rated
- Tested to BS EN 61238

### LV narrow palm copper tube crimping lugs

Part number	Palm Width	Hole Size	Conductor Size
<b>BTN10-M</b>	9mm	5mm	10mm <sup>2</sup>
<b>BTN16-M</b>	9mm	5mm	16mm <sup>2</sup>
<b>BTN25-M</b>	9mm	5mm	25mm <sup>2</sup>
<b>BTN35-M</b>	11.5mm	6mm	35mm <sup>2</sup>
<b>BTN50-M</b>	11.5mm	6mm	50mm <sup>2</sup>
<b>BTN70-M</b>	11.5mm	6mm	70mm <sup>2</sup>

Part number	Palm Width	Hole Size	Conductor Size
<b>BTN95-M</b>	15.5mm	8mm	95mm <sup>2</sup>
<b>BTN120-M</b>	19mm	8, 10mm	120mm <sup>2</sup>
<b>BTN150-M</b>	19mm	8, 10mm	150mm <sup>2</sup>
<b>BTN185-M</b>	24.5mm	10mm	185mm <sup>2</sup>
<b>BTN240-M</b>	31mm	10, 12, 16mm	240mm <sup>2</sup>
<b>BTN300-M</b>	31mm	10, 12mm	300mm <sup>2</sup>

## LV 2 Bolt Copper Lugs

### FEATURES

- Designed to facilitate the termination of the cable via two lug holes
- 1000V Rated
- Tested to BS EN 61238



**LV 2 bolt copper tube crimping lugs**

Part number	Hole Size	Conductor Size
<b>A24-2M8</b>	2 x 8mm	120mm <sup>2</sup>
<b>A30-2M12</b>	2 x 12mm	150mm <sup>2</sup>
<b>A37-2M12</b>	2 x 12mm	185mm <sup>2</sup>
<b>A48-2M12</b>	2 x 12mm	240mm <sup>2</sup>
<b>A60-2M12</b>	2 x 12mm	300mm <sup>2</sup>

Part number	Hole Size	Conductor Size
<b>A80-2M12</b>	2 x 12mm	400mm <sup>2</sup>
<b>A100-2M12</b>	2 x 12mm	500mm <sup>2</sup>
<b>A120-2M12</b>	2 x 12mm	630mm <sup>2</sup>
<b>A160-2M12</b>	2 x 12mm	800mm <sup>2</sup>

## LV Copper Pin Terminal

### FEATURES

- Designed to be crimped to reduce conductor size for termination into contact blocks
- 1000V Rated
- Tested to BS EN 12449



**LV copper reducing pin terminal**

Part number	Pin Diameter	Conductor Size
<b>L10PIN</b>	3.8mm	10mm <sup>2</sup>
<b>L16PIN</b>	3.7mm	16mm <sup>2</sup>
<b>L25PIN</b>	5mm	25mm <sup>2</sup>
<b>L35PIN</b>	5mm	35mm <sup>2</sup>
<b>L50PIN</b>	7.5mm	50mm <sup>2</sup>
<b>L70PIN</b>	8mm	70mm <sup>2</sup>
<b>L95PIN</b>	8mm	95mm <sup>2</sup>

Part number	Pin Diameter	Conductor Size
<b>L120PIN</b>	10mm	120mm <sup>2</sup>
<b>L150PIN</b>	10mm	150mm <sup>2</sup>
<b>L185PIN</b>	14mm	185mm <sup>2</sup>
<b>L240PIN</b>	14mm	240mm <sup>2</sup>
<b>L300PIN</b>	16mm	300mm <sup>2</sup>
<b>L400PIN</b>	16mm	400mm <sup>2</sup>

## LV 4 Bolt Copper Lugs

### FEATURES

- Designed to facilitate the termination of a cable on to a transformer
- 1000V Rated
- Tested to BS EN 61238



**LV 4 bolt fixing transformer lugs**

Part number	Hole Size	Conductor Size
<b>A37-4ESI</b>	4 x 8mm	185mm <sup>2</sup>
<b>A48-4ESI</b>	4 x 8mm	240mm <sup>2</sup>
<b>A60-4ESI</b>	4 x 8mm	300mm <sup>2</sup>
<b>A80-4ESI</b>	4 x 8mm	400mm <sup>2</sup>

Part number	Hole Size	Conductor Size
<b>A100-4ESI</b>	4 x 8mm	500mm <sup>2</sup>
<b>A120-4ESI</b>	4 x 8mm	630mm <sup>2</sup>
<b>A160-4ESI</b>	4 x 8mm	800mm <sup>2</sup>
<b>A200-4ESI</b>	4 x 8mm	1000mm <sup>2</sup>

**LV Copper Lugs - Angled 90°**



**LV copper tube crimping lugs angled at 90°**

**FEATURES**

- Designed to be crimped on to a conductor to facilitate the termination of a cable where a 90° angle is required.
- Copper lugs are electrolytically tin plated to avoid oxidation
- Cembre lugs are annealed to guarantee optimum ductility which is an absolute necessity for connectors that will have to withstand the severe deformation arising when compressed and any bending of the palm during installation
- 1000V Rated
- Tested to BS EN 61238

Part number	Hole Size	Conductor Size
<b>LR50-M</b>	6, 8, 10, 12mm	50mm <sup>2</sup>
<b>LR70-M</b>	8, 10, 12mm	70mm <sup>2</sup>
<b>LR95-M</b>	8, 10, 12mm	95mm <sup>2</sup>
<b>LR120-M</b>	10, 12mm	120mm <sup>2</sup>

Part number	Hole Size	Conductor Size
<b>LR150-M</b>	10, 12mm	150mm <sup>2</sup>
<b>LR185-M</b>	10, 12mm	185mm <sup>2</sup>
<b>LR240-M</b>	12mm	240mm <sup>2</sup>
<b>LR300-M</b>	12mm	300mm <sup>2</sup>

**LV Copper Splices**



**LV copper crimp splices**

**FEATURES**

- Designed to be crimped onto same size conductors to connect and create a straight connection
- Features an internal taper at both ends to ease the introduction of the conductor and a central stop to ensure correct positioning
- Electrolytically tin plated with minimum thickness of 3µm to avoid oxidation
- 1000V Rated
- Tested to BS EN 61238

Part number	Conductor Size
<b>L03-M</b>	1.5mm <sup>2</sup>
<b>L06-M</b>	2.5mm <sup>2</sup>
<b>L1-M</b>	4-6mm <sup>2</sup>
<b>L2-M</b>	10mm <sup>2</sup>
<b>L3-M</b>	16mm <sup>2</sup>
<b>L5-M</b>	25mm <sup>2</sup>
<b>L7-M</b>	35mm <sup>2</sup>
<b>L10-M</b>	50mm <sup>2</sup>
<b>L14-M</b>	70mm <sup>2</sup>
<b>L19-M</b>	95mm <sup>2</sup>

Part number	Conductor Size
<b>L24-M</b>	120mm <sup>2</sup>
<b>L30-M</b>	150mm <sup>2</sup>
<b>L37-M</b>	185mm <sup>2</sup>
<b>L48-M</b>	240mm <sup>2</sup>
<b>L60-M</b>	300mm <sup>2</sup>
<b>L80-M</b>	400mm <sup>2</sup>
<b>L100-M</b>	500mm <sup>2</sup>
<b>L120-M</b>	630mm <sup>2</sup>
<b>L160-M</b>	800mm <sup>2</sup>
<b>L200-M</b>	1000mm <sup>2</sup>

## LV Aluminium Lugs

### FEATURES

- Designed to be crimped on to a conductor to facilitate the termination of the cable via the lug hole
- Aluminium lugs are made from 99.5% pure aluminium
- Barrels are capped and filled with grease so as to avoid oxidation of the aluminium
- Non-circular conductors may require pre-rounding prior to the introduction to the terminal
- Increased barrel length and internal taper to ease the introduction of the conductor
- 1000V Rated
- Tested to BS EN 61238



**LV aluminium tube crimping lugs**

Part number	Size	Conductor Size
AA16-M	8mm	16mm <sup>2</sup>
AA25-M	8mm	25mm <sup>2</sup>
AA35-M	8, 10mm	35mm <sup>2</sup>
AA50-M	12, 14mm	50mm <sup>2</sup>
AA70-M	12, 14mm	70mm <sup>2</sup>
AA95-M	12, 14mm	95mm <sup>2</sup>

Part number	Size	Conductor Size
AA120-M	12, 14mm	120mm <sup>2</sup>
AA150-M	12, 14mm	150mm <sup>2</sup>
AA185-M	12, 14mm	185mm <sup>2</sup>
AA240-M	12, 14mm	240mm <sup>2</sup>
AA300-34-M	12, 14, 16mm	300mm <sup>2</sup>

## LV Aluminium Splices

### FEATURES

- Designed to be crimped on to same size conductors to connect and create a straight connection
- Aluminium splices are made from 99.5% pure aluminium
- Features a solid stop which creates a barrier between the two conductors
- Barrels are capped and filled with grease so as to avoid oxidation of the aluminium
- Non-circular conductors may require pre-rounding prior to the introduction to the splice
- 1000V Rated
- Tested to BS EN 61238
- CE Approved



**LV aluminium tube crimp splices**

Part number	Conductor Size
MTMA10-GC	10mm <sup>2</sup>
MTMA16-GC	16mm <sup>2</sup>
MTMA25-GC	25mm <sup>2</sup>
MTMA35-GC	35mm <sup>2</sup>
MTMA50-GC	50mm <sup>2</sup>
MTMA70-GC	70mm <sup>2</sup>
MTMA95-GC	95mm <sup>2</sup>

Part number	Conductor Size
MTMA120-GC	120mm <sup>2</sup>
MTMA150-GC	150mm <sup>2</sup>
MTMA185-GC	185mm <sup>2</sup>
MTMA240-GC	240mm <sup>2</sup>
MTMAD300-GC	300mm <sup>2</sup>

LV Aluminium Mechanical Lugs



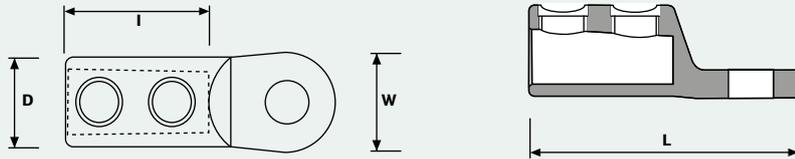
LV aluminium mechanical lugs for use on solid sectoral aluminium conductors

FEATURES

- Designed to be connected on to a conductor to facilitate the termination of the cable without the need for crimping
- Low torque shear head bolts
- Solid moisture block between palm and barrel
- Range taking
- Designed to meet BS 4579 Part 3 and Engineering Recommendation C79

Part number	Stud Size	Conductor Size
<b>LVET120</b>	12, 16mm	95-120mm <sup>2</sup>
<b>LVET185</b>	12, 16mm	150-185mm <sup>2</sup>
<b>LVET300</b>	12, 16mm	240-300mm <sup>2</sup>

Mechanical Lugs Data



Part number	Dimensions mm				Spanner or Socket A/F
	L	I	D	W	
LVET120	86	40	28	32	13
LVET185	104	56	35	39	19
LVET300	116	56	41	43	19

LV Brass Mechanical Lugs



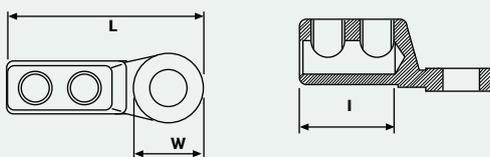
LV brass mechanical lugs for use on copper/aluminium conductors

FEATURES

- Designed to be connected on to a conductor to facilitate the termination of the cable without the need for crimping.
- Low torque shear head bolts.
- Blocked barrel to prevent water ingress
- Range taking
- Designed to meet BS 4579 and Engineering Recommendation C79

Part number	Stud Size	Conductor Size
<b>BET35C</b>	12mm	up to 35mm <sup>2</sup>
<b>BET60C</b>	12, 16mm	up to 60mm <sup>2</sup>
<b>BET120C</b>	10, 12, 16mm	up to 120mm <sup>2</sup>

Mechanical Lugs Data

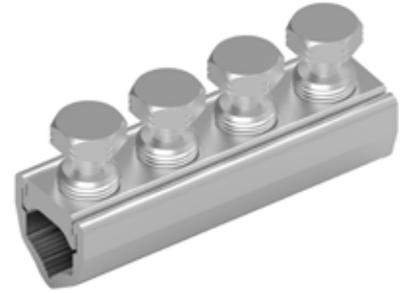


Part number	Dimensions mm			Maximum Conductor Size mm <sup>2</sup>	Installation Tool
	L	I	W		
BET35C	55	25	20	35	3mm allen
BET60C	70	34	25	60	13mm socket
BET120C	86	46	28	120	16mm socket

## LV Mechanical Connectors - Straight/Branch

### FEATURES

- Designed to facilitate a simple inline connection between conductors without the need for crimping
- Shear bolt technology to ensure a good electrical connection
- Can be used as a transition connector between cables with different conductor constructions
- JP1 available with brass transitional gauze as option for copper conductors

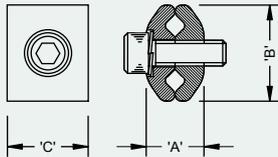


**LV mechanical connector for inline joints**

Part number	Manufacturer	Conductor Size
JP1	TE Connectivity	up to 35mm <sup>2</sup>
MCB25	TE Connectivity	4-25mm <sup>2</sup>
MCB50	TE Connectivity	4-50mm <sup>2</sup>
MCB70	TE Connectivity	10-70mm <sup>2</sup>
UST95	TE Connectivity	35-95mm <sup>2</sup>

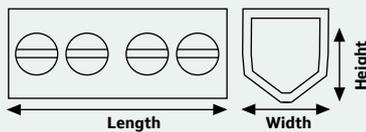
Part number	Manufacturer	Conductor Size
UST185	TE Connectivity	35-185mm <sup>2</sup>
UST300	TE Connectivity	70-300mm <sup>2</sup>
UBR95	TE Connectivity	16-95mm <sup>2</sup>
UBR185	TE Connectivity	16-185mm <sup>2</sup>
UBR300	TE Connectivity	95-300mm <sup>2</sup>

### JP1 Data



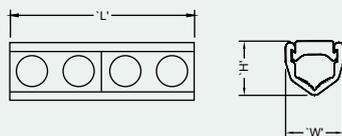
Reference	Dimensions mm		
	A	B	C
JP1	14.5	24	20

### MCB Data



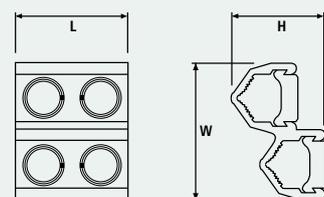
Reference	Dimensions mm		
	Length	Height	Width
MCB25	38	14	12
MCB50	45	16	14
MCB70	53	18	16

### UST Data



Reference	Dimensions mm		
	L	H	W
UST95	80	25	25
UST185	108	32	34
UST300	108	36	40

### UBR Data



Reference	Dimensions mm		
	Length	Height	Width
UBR95	40	36	49
UBR185	54	45	66
UBR300	54	52	77

## MV Copper Lugs



**MV copper tube crimping lugs**

### FEATURES

- Designed to be crimped on to a conductor to facilitate the termination of the cable via the lug hole
- Absence of inspection hold prevents ingress of moisture into crimp
- MV copper lugs are electrolytically tin plated to avoid oxidation
- MV copper lugs have a double length barrel for enhanced electrical & mechanical performance
- Please refer to our tooling and equipment section on page 212 for dies and tooling
- 33kV rated
- Tested to BS EN 61238
- UL Listed (up to 300mm<sup>2</sup>)
- DEF Standard 59-71 Approved

Part number	Size	Conductor Size
2A3-M	8, 10mm	16mm <sup>2</sup>
2A5-M	8, 10, 12mm	25mm <sup>2</sup>
2A7-M	8, 10, 12mm	35mm <sup>2</sup>
2A10-M	10, 12, 14, 16mm	50mm <sup>2</sup>
2A14-M	10, 12, 14, 16mm	70mm <sup>2</sup>
2A19-M	10, 12, 14, 16, 20mm	95mm <sup>2</sup>
2A24-M	10, 12, 14, 16, 20mm	120mm <sup>2</sup>
2A30-M	10, 12, 14, 16, 20mm	150mm <sup>2</sup>

Part number	Size	Conductor Size
2A37-M	12, 14, 16, 20mm	185mm <sup>2</sup>
2A48-M	12, 14, 16, 20mm	240mm <sup>2</sup>
2A60-M	12, 14, 16, 20mm	300mm <sup>2</sup>
2A80-M	12, 14, 16, 20mm	400mm <sup>2</sup>
2A100-M	16, 20mm	500mm <sup>2</sup>
2A120-M	16, 20mm	630mm <sup>2</sup>
2A160-M	20mm	800mm <sup>2</sup>
2A200-M	20mm	1000mm <sup>2</sup>

## MV 2 Bolt Copper Lugs



**MV 2 bolt copper tube crimping lugs**

### FEATURES

- Designed to be crimped on to a conductor to facilitate the termination of the cable via the two lug holes
- Absence of inspection hold prevents ingress of moisture into crimp
- MV copper lugs are electrolytically tin plated to avoid oxidation
- MV copper lugs have a double length barrel for enhanced electrical and mechanical performance
- Please refer to our tooling and equipment section on page 212 for dies and tooling
- 33kV rated
- Tested to BS EN 61238
- UL Listed (up to 300mm<sup>2</sup>)
- DEF Standard 59-71 Approved

Part number	Hole Size	Conductor Size
CA25-2M	8, 12mm	25mm <sup>2</sup>
CA35-2M	12mm	35mm <sup>2</sup>
CA50-2M	12mm	50mm <sup>2</sup>
CA70-2M	12mm	70mm <sup>2</sup>
CA95-2M	12mm	95mm <sup>2</sup>
CA120-2M	12mm	120mm <sup>2</sup>
CA150-2M	12mm	150mm <sup>2</sup>

Part number	Hole Size	Conductor Size
CA185-2M	12mm	185mm <sup>2</sup>
CA240-2M	12mm	240mm <sup>2</sup>
CA300-2M	12mm	300mm <sup>2</sup>
2A80-2M	12, 14, 16mm	400mm <sup>2</sup>
2A100-2M	14, 16mm	500mm <sup>2</sup>
2A120-2M	14, 16mm	630mm <sup>2</sup>

## MV Mechanical Lugs - 11-42kV

### FEATURES

- Designed to be connected on to a conductor to facilitate the termination of the cable without the need for crimping
- High tensile tin plated aluminium alloy
- Shear bolt technology to ensure a good electrical connection
- Solid moisture block between palm and barrel
- Smooth profile prevents damage to insulation or sealing sleeves
- No elongation during installation
- Wide application range
- Compact design
- Larger sizes available on request.
- For solid copper and aluminium conductors please contact your nearest sales office
- 42kV Rated

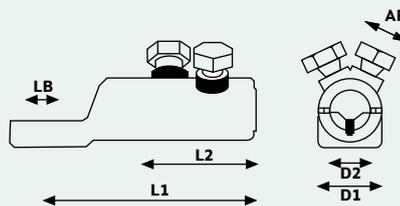


**MV mechanical lug for copper & aluminium conductors**

Part number	Stud Size	Conductor Type	Conductor Size
<b>BLMT-25/95</b>	12, 16mm	Cu / Ali	25-95mm <sup>2</sup>
<b>BLMT-35/150</b>	12, 16mm	Cu / Ali	35-150mm <sup>2</sup>
<b>BLMT-95/240</b>	12, 16mm	Cu / Ali	95-240mm <sup>2</sup>
<b>BLMT-120/300</b>	12, 16mm	Cu / Ali	120-300mm <sup>2</sup>

Part number	Stud Size	Conductor Type	Conductor Size
<b>BLMT-185/400</b>	12, 16, 20mm	Cu / Ali	185-400mm <sup>2</sup>
<b>BLMT-500/630</b>	12, 16, 20mm	Cu / Ali	500-630mm <sup>2</sup>
<b>BLMT-800</b>	20mm	Cu / Ali	800mm <sup>2</sup>

### Mechanical Lugs Data



Part number	Conductor Range mm <sup>2</sup>	Hole Size mm LB	Dimensions mm				Contact bolts	
			L1	L2	D1	D2	Quantity	Head size AF mm
BLMT-25/95-13	25-95	13	60	30	24	12.8	1	13
BLMT-25/95-17	25-95	17	60	30	24	12.8	1	13
BLMT-35/150-13	35-150	13	86	35	28	15.8	1	17
BLMT-35/150-17	35-150	17	86	35	28	15.8	1	17
BLMT-95/240-13	95-240	13	112	60	33	20	2	19
BLMT-95/240-17	95-240	17	112	60	33	20	2	19
BLMT-120/300-13	120-300	13	115	65	37	24	2	22
BLMT-120/300-17	120-300	17	115	65	37	24	2	22
BLMT-185/400-13	185-400	13	138	80	42	25.5	3	22
BLMT-185/400-17	185-400	17	138	80	42	25.5	3	22
BLMT-185/400-21	185-400	21	138	80	42	25.5	3	22
BLMT-500/630-13	500-630	13	150	95	50	33	3	22
BLMT-500/630-17	500-630	17	150	95	50	33	3	22
BLMT-500/630-21	500-630	21	150	95	50	33	3	22
BLMT-800	800	20	202	120	56	36	4	27

### MV Mechanical Lugs - up to 33kV



#### MV 2 bolt mechanical lug for copper & aluminium conductors

##### FEATURES

- Shear bolt technology to ensure a good electrical connection
- Solid moisture block between palm and barrel
- Smooth profile prevents damage to insulation or sealing sleeves
- Supplied with range taking bolts to cover multiple cable sizes
- Primarily used on copper conductors
- Designed to meet BS4579 Part 1
- 44mm hole centres
- All bolts use 19mm socket or spanner
- Indoor/outdoor applications

Part number	Hole Spacing	Conductor Type	Conductor Size
VETB21-OHUTB	44mm	Cu / Ali	50-185mm <sup>2</sup>
VETB28-OHUTB	44mm	Cu / Ali	185-400mm <sup>2</sup>

Part number	Hole Spacing	Conductor Type	Conductor Size
VETB33-OHUTB	44mm	Cu / Ali	400-630mm <sup>2</sup>
VETB37-OHUTB	44mm	Cu / Ali	800mm <sup>2</sup>

#### Mechanical Connectors Data



Part number	End Termination Dimensions mm					
	L	B	HC	Dia	Bore Depth	Palm Hole Dia
VETB21-OHUTB	148.5	62	25	21.0	59.5	13.0
VETB28-OHUTB	164	73	24.9	28.0	65.5	13.0
VETB33-OHUTB	157.5	70	25	33.5	65.5	13.0
VETB37-OHUTB	200	94	35	37.5	84.0	13.0

### MV Copper Splices



#### MV copper tube crimping splices

##### FEATURES

- Designed to be crimped on to same size conductors to connect and create a straight connection
- MV copper splices are electrolytically tin plated to avoid oxidation
- MV copper splices have extended tube length for simplified crimping
- Please refer to our tooling and equipment section for dies and tooling
- 33kV rated
- Tested to BS EN 61238
- UL Listed (up to 300mm<sup>2</sup>)
- DEF Standard 59-71 Approved

Part number	Conductor Size
MT16-TD	16mm <sup>2</sup>
MT25-TD	25mm <sup>2</sup>
MT35-TD	35mm <sup>2</sup>
MT50-TD	50mm <sup>2</sup>
MT70-TD	70mm <sup>2</sup>
MT95-TD	95mm <sup>2</sup>
MT120-TD	120mm <sup>2</sup>

Part number	Conductor Size
MT150-TD	150mm <sup>2</sup>
MT185-TD	185mm <sup>2</sup>
MT240-TD	240mm <sup>2</sup>
MT300-TD	300mm <sup>2</sup>
MT400-TD	400mm <sup>2</sup>
MT500-TD	500mm <sup>2</sup>
MT630-TD	630mm <sup>2</sup>

### MV Copper Splices

#### FEATURES

- Designed to be crimped on to same size conductor to connect and create a straight connection
- MV copper splices are electrolytically tin plated to avoid oxidation
- MV copper splices have extended tube length for simplified crimping
- MT-GC range has a waterblock in the connectors which forms a barrier between the two conductors



**MV copper tube waterblocked crimp splices**

Part number	Conductor Size
MT25-GC	25mm <sup>2</sup>
MT35-GC	35mm <sup>2</sup>
MT50-GC	50mm <sup>2</sup>
MT70-GC	70mm <sup>2</sup>
MT95-GC	95mm <sup>2</sup>
MT120-GC	120mm <sup>2</sup>

Part number	Conductor Size
MT150-GC	150mm <sup>2</sup>
MT185-GC	185mm <sup>2</sup>
MT240-GC	240mm <sup>2</sup>
MT300-GC	300mm <sup>2</sup>
MT400-GC	400mm <sup>2</sup>

### MV Mechanical Connectors - Split Blocked - up to 33kV

#### FEATURES

- Designed to connect two HV conductors inline without bending the cable to make the connection
- Shear bolt technology to ensure a good electrical connection. 'V' interface ensures alignment and reduces connector resistance
- Machined from high conductivity brass or copper and supplied with range taking bolts
- Designed to meet BS 4579 Part 1
- 33kV Rated
- Solid moisture block
- Tapered ends ensure smooth profile for installation

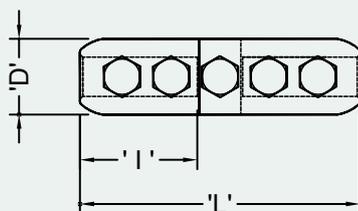


**MV mechanical connectors for copper & aluminium conductors**

Part number	Conductor Type	Conductor Size
VTPB21-UTB	Cu / Ali	50-240mm <sup>2</sup>
VTPB27-UTB	Cu / Ali	95-300mm <sup>2</sup>

Part number	Conductor Type	Conductor Size
VTPC28-UTB	Cu	120-400mm <sup>2</sup>
VTPC36-UTB	Cu	400-645mm <sup>2</sup>

#### Mechanical Lugs Data



Part number	Dimensions mm		
	L	ØD	I
VTPB21-UTB	148	41	62
VTPB27-UTB	174	47	74
VTPC28-UTB	173	47	74
VTPC36-UTB	178	55	76



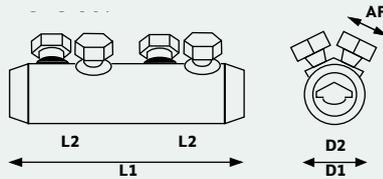
### FEATURES

- Designed to connect two MV conductors inline without the need for crimping
- High tensile tin plated aluminium alloy
- Solid moisture block between conductors
- Conductor size based on circular stranded copper and aluminium
- Torque-controlled shear-head bolts guarantee a good electrical contact
- Easy installation with standard socket spanner
- Pre-engineered design for perfect fit in medium voltage cable accessories up to 42kV
- Tested to IEC61238-1

### MV mechanical connectors for copper & aluminium conductors

Part number	Conductor Type	Conductor Size	Part number	Conductor Type	Conductor Size
<b>BSMB-10/35</b>	Cu / Ali	10-35mm <sup>2</sup>	<b>BSM-185/400</b>	Cu / Ali	185-400mm <sup>2</sup>
<b>BSM-25/95</b>	Cu / Ali	25-95mm <sup>2</sup>	<b>BSMB-500-MK2</b>	Cu / Ali	500mm <sup>2</sup>
<b>BSMB-35/150</b>	Cu / Ali	35-150mm <sup>2</sup>	<b>BSMB-630-MK2</b>	Cu / Ali	630mm <sup>2</sup>
<b>BSM-95/240</b>	Cu / Ali	95-240mm <sup>2</sup>	<b>BSMB-800-MK2</b>	Cu / Ali	800mm <sup>2</sup>
<b>BSMB-120/300</b>	Cu / Ali	120-300mm <sup>2</sup>	<b>BSMB-1000</b>	Cu / Ali	1000mm <sup>2</sup>

### Mechanical Connectors Data



Part number	Cross-sectional range mm <sup>2</sup>	Blocked	Dimensions mm			
			L1	L2	D1	D2
BSMB-10/35	10-35	Yes	45	20	19	8.5
BSMB-25/95	25-95	Yes	65	30	24	12.8
BSMB-35/150	35-150	Yes	80	35	28	15.8
BSM-95/240	95-240	Yes	125	60	33	20
BSMB-120/300	120-300	Yes	140	65	37	24
BSM-185/400	185-400	Yes	170	80	42	25.5
BSMB-500	500	Yes	160	70	46	30
BSMB-630	630	Yes	160	70	50	33
BSMB-800	800	Yes	180	85	56	36
BSMB-1000	1000	Yes	180	85	60	40

## MV Reducing Mechanical Connectors - 11-42kV

### FEATURES

- Designed to connect dissimilar sized MV conductors inline without the need for crimping
- High tensile tin plated aluminium alloy with solid moisture block between conductors
- Conductor size based on circular stranded copper and aluminium
- Torque-controlled shear-head bolts guarantee a good electrical contact
- Easy installation with standard socket or spanner
- Pre-engineered design for perfect fit in MV cable accessories up to 42kV
- 42kV Rated
- Tested to IEC61238-1

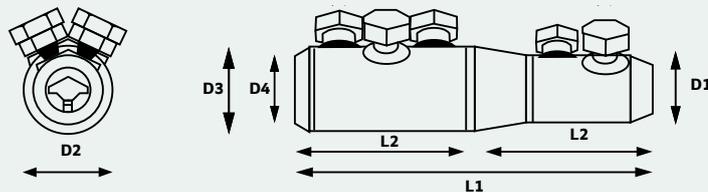


**MV reducing mechanical connectors for copper & aluminium conductors**

Part number	Conductor Type	Conductor Size
<b>BSMB-25/95-95/240</b>	Cu / Ali	25-95mm <sup>2</sup> / 95-240mm <sup>2</sup>
<b>BSMB-95/240-185/400</b>	Cu / Ali	95-240mm <sup>2</sup> / 185-400mm <sup>2</sup>
<b>BSMB-185/400-500</b>	Cu / Ali	185-400mm <sup>2</sup> / 500mm <sup>2</sup>
<b>BSMB-185/400-630</b>	Cu / Ali	185-400mm <sup>2</sup> / 630mm <sup>2</sup>
<b>BSMB-500/630-MK2</b>	Cu / Ali	500mm <sup>2</sup> / 630mm <sup>2</sup>

Part number	Conductor Type	Conductor Size
<b>BSMB-500-800</b>	Cu / Ali	500mm <sup>2</sup> / 800mm <sup>2</sup>
<b>BSMB-630-800</b>	Cu / Ali	630mm <sup>2</sup> / 630mm <sup>2</sup>
<b>BSMB-630-1000</b>	Cu / Ali	630mm <sup>2</sup> / 1000mm <sup>2</sup>
<b>BSMB-800-1000</b>	Cu / Ali	800mm <sup>2</sup> / 1000mm <sup>2</sup>

### Mechanical Connectors Data



Product reference	Conductor Range mm <sup>2</sup>		Blocked	Dimensions mm					
	Side 1	Side 2		L1	L2	D1	D2	D3	D4
BSMB25/95-95/240	25-95	95-240	Yes	125	60	24	12.8	33	20
BSMB95/240-185/400	95-240	185-400	Yes	170	80	33	20	42	25.5
BSMB185/400-500	185-400	500	Yes	190	90	42	25.5	46	30
BSMB185/400-630	185-400	630	Yes	200	95	42	25.5	50	33
BSMB500-630	500	630	Yes	200	95	46	30	50	33
BSMB500-800	500	800	Yes	180	85	46	30	56	36
BSMB630-800	630	800	Yes	180	85	50	33	56	36
BSMB630-1000	630	1000	Yes	180	85	50	33	60	40
BSMB800-1000	800	1000	Yes	180	85	56	36	60	40

## MV/HV Mechanical Lugs- Up to 72kV



### SICON HV mechanical lug for copper and aluminium conductors

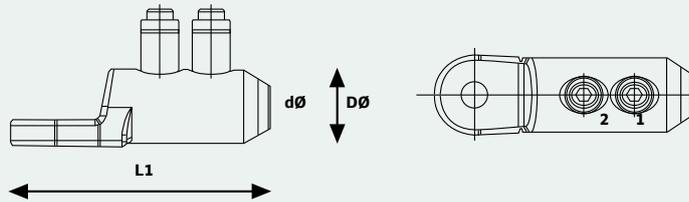
#### FEATURES

- Large clamping range
- Conductor channels with transverse grooves and protection against conductor oxidation
- Blind hole designed as pressure-resistant oil barrier for oil cable
- Compact design, rounded edges and flat transitions, suitable for slide on and shrink sleeves
- Centring sleeves
- Smooth breaking of the shear bolt simplifies tightening process
- No need for specialist tooling
- Conductor size based on circular stranded copper and aluminium
- 72kV Rated
- Contact technology type tested electrically and mechanically to IEC 61238-1
- Up to 30% increased contact force compared to conventional type terminals

Part number	Hole Size	Conductor Size
332 604 010	13mm	10-95mm <sup>2</sup>
332 599 010	13mm	25-150mm <sup>2</sup>
332 595 010	13mm	50-185mm <sup>2</sup>
332 595 011	16mm	50-185mm <sup>2</sup>
332 605 010	13mm	95-300mm <sup>2</sup>

Part number	Hole Size	Conductor Size
332 605 011	16mm	95-300mm <sup>2</sup>
332 625 010	12mm	185-400mm <sup>2</sup>
332 625 011	16mm	185-400mm <sup>2</sup>
332 606 010	16mm	300-630mm <sup>2</sup>

#### SICON Connectors Data



Part number						L1	DØ	dØ
332 604 010	10-95mm <sup>2</sup>	10-95mm <sup>2</sup>	50-95mm <sup>2</sup>	35-70mm <sup>2</sup>	10-95mm <sup>2</sup>	70	24	13
332 599 010	25-150mm <sup>2</sup>	25-150mm <sup>2</sup>	35-120mm <sup>2</sup>	35-120mm <sup>2</sup>	25-150mm <sup>2</sup>	91	28	16.3
332 595 010	50-240mm <sup>2</sup>	50-185mm <sup>2</sup>	50-185mm <sup>2</sup>	50-150mm <sup>2</sup>	50-240mm <sup>2</sup>	115	33	20
332 595 011	50-240mm <sup>2</sup>	50-185mm <sup>2</sup>	50-185mm <sup>2</sup>	50-150mm <sup>2</sup>	50-240mm <sup>2</sup>	115	33	20
332 605 010	95-400mm <sup>2</sup>	95-300mm <sup>2</sup>	95-240mm <sup>2</sup>	95-240mm <sup>2</sup>	95-300mm <sup>2</sup>	120	38	24
332 605 011	95-400mm <sup>2</sup>	95-300mm <sup>2</sup>	95-240mm <sup>2</sup>	95-240mm <sup>2</sup>	95-300mm <sup>2</sup>	120	38	24
332 625 010	185-500mm <sup>2</sup>	185-400mm <sup>2</sup>	185-240mm <sup>2</sup>	185-240mm <sup>2</sup>	185-400mm <sup>2</sup>	138	42	26
332 625 011	185-500mm <sup>2</sup>	185-400mm <sup>2</sup>	185-240mm <sup>2</sup>	185-240mm <sup>2</sup>	185-400mm <sup>2</sup>	138	42	26
332 606 010	300-800mm <sup>2</sup>	300-630mm <sup>2</sup>	-	300-400mm <sup>2</sup>	300-630mm <sup>2</sup>	180	52	33.3

## HV Mechanical Lugs - Up to 72kV

### FEATURES

- Designed to be connected onto a conductor to facilitate the termination of the cable without the need for crimping
- High tensile tinned aluminium alloy
- Shear bolt technology to ensure a good electrical connection
- Solid moisture block between palm and barrel
- Fast and safe installation
- Variety of different palms available
- 72kV Rated
- Tested to IEC61238-1

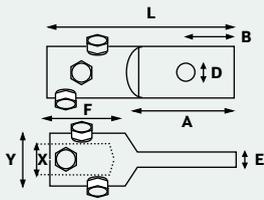


**HV mechanical connectors for copper & aluminium conductors**

Part number	Description
EPPA-052-xx/XX	Cable Lug Single Hole M18
EPPA-051-xx/XX	Cable Lug 2 Hole Palm M18
EPPA-054-xx/XX	Cable Lug 4 Hole Palm M14.5

Part number	Description
EPPA-050-X/Y	Cable Lug with Rod
EPPA-053-X/Y	Cable Lug with Rod
EPPA-061-X/Y	Cable Lug with Rod

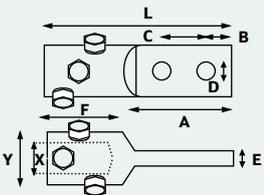
### Mechanical Lugs Data EPPA-052



Part number	Dimensions mm					
	L	A	B	D	E	F
EPPA-052-X/Y	190	100	50	18	25	64

X, Y according to cable dimensions

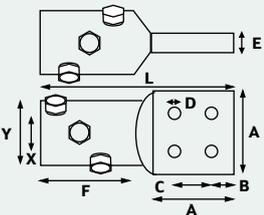
### EPPA-051



Part number	Dimensions mm						
	L	A	B	C	D	E	F
EPPA-051-X/Y	190	100	27.5	45	18	25	64

X, Y according to cable dimensions

### EPPA-054



Part number	Dimensions mm						
	L	A	B	C	D	E	F
EPPA-054-X/Y							
Contact plate 100 x 100	232	100	27.5	45	14.5	25	112
Contact plate 80 x 80	212	80	17.5	45	14.5	25	112

X, Y according to cable dimensions

### HV Mechanical Connectors - Straight - Up to 72kV



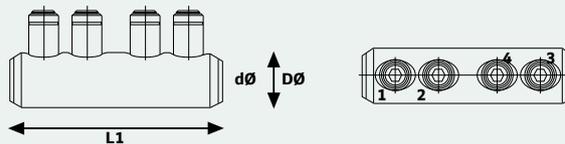
**SICON HV straight mechanical connectors for copper & aluminium conductors**

#### FEATURES

- Suitable for use on copper or aluminium conductors
- For other conductor types please refer to table below
- 72kV Rated
- Up to 30% increased contact force compared to conventional type terminals

Part number	Conductor Range
332 601 010	10-95mm <sup>2</sup>
332 607 010 (2 bolt)	25-150mm <sup>2</sup>
332 593 010 (4 bolt)	25-150mm <sup>2</sup>
332 592 010	50-240mm <sup>2</sup>
332 614 010	50-240mm <sup>2</sup>
332 602 010	95-400mm <sup>2</sup>
332 617 010	185-500mm <sup>2</sup>
332 603 010	300-800mm <sup>2</sup>

#### Blocked Straight Connectors Data



Part number						L1	DØ	dØ
332 601 010	10-95mm <sup>2</sup>	10-95mm <sup>2</sup>	50-95mm <sup>2</sup>	35-70mm <sup>2</sup>	10-95mm <sup>2</sup>	65	24	13
332 607 010	25-150mm <sup>2</sup>	25-150mm <sup>2</sup>	35-120mm <sup>2</sup>	35-120mm <sup>2</sup>	25-150mm <sup>2</sup>	68	28	16.3
332 593 010	25-150mm <sup>2</sup>	25-150mm <sup>2</sup>	35-120mm <sup>2</sup>	35-120mm <sup>2</sup>	25-150mm <sup>2</sup>	102	28	16.3
332 592 010	50-240mm <sup>2</sup>	50-185mm <sup>2</sup>	50-185mm <sup>2</sup>	50-150mm <sup>2</sup>	50-240mm <sup>2</sup>	126	33	20
332 614 010	50-240mm <sup>2</sup>	126	35	21				
332 602 010	95-400mm <sup>2</sup>	95-300mm <sup>2</sup>	95-240mm <sup>2</sup>	95-240mm <sup>2</sup>	95-300mm <sup>2</sup>	140	38	24
332 617 010	185-500mm <sup>2</sup>	185-400mm <sup>2</sup>	185-240mm <sup>2</sup>	185-240mm <sup>2</sup>	185-400mm <sup>2</sup>	170	42	26
332 603 010	300-800mm <sup>2</sup>	300-630mm <sup>2</sup>	-	300-400mm <sup>2</sup>	300-630mm <sup>2</sup>	230	50	33.3

### HV Mechanical Connectors - Branch - Up to 72kV



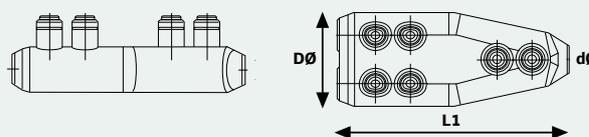
**SICON HV branch mechanical connectors for copper & aluminium conductors**

#### FEATURES

- Suitable for use on aluminium or copper conductors
- Conductor size based on circular stranded copper and aluminium
- For other conductor types please refer to table below

Part number	Conductor Range
332 447 010	See below

#### Branch Connectors Data



Part number						L1	DØ	dØ
332 447 010	50-240mm <sup>2</sup>	50-185mm <sup>2</sup>	50-185mm <sup>2</sup>	50-150mm <sup>2</sup>	50-240mm <sup>2</sup>	162	68/33	20
332 631 010	70-300mm <sup>2</sup>	50-240mm <sup>2</sup>	70-240mm <sup>2</sup>	70-185mm <sup>2</sup>	70-300mm <sup>2</sup>	158	71.5/35	22



# Jointing Tech

## Solar | Making your future brighter

**Jointing Tech is a specialist medium voltage distributor supplying a range of power cable and accessories into the solar industry.**

The growth in the UK solar market has seen Jointing Tech expand its business by providing design, product supply and technical support to solar farm developers and cable contractors working on some of the largest solar projects in the UK.

**The Jointing Tech range of products and services includes:**

- Distribution Transformers
- Switchgear
- LV Cabinets
- Earthing (inc HDC Cable)
- Troughing
- MV Joints
- MV Terminations
- HV Joints
- HV Terminations
- Insulation
- MV Power Cable
- DC Cable
- Earthing Design
- Lugs and Connectors
- Tool Hire and Sales

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# Cable Cleats

## Contents

Product Selection Table	<b>38</b>
Plastic Cable Cleats	<b>39</b>
Aluminium Cable Cleats	<b>42</b>
Stainless Steel Cable Cleats	<b>45</b>
Single Way Shoe Cleats/Short Circuit Straps	<b>46</b>
Stainless Steel Trefoil Cleats	<b>47</b>
Multiple Cable Cleats	<b>48</b>
Multiple Cable Cleats and Accessories	<b>52</b>
Aluminium Trefoil Cleats	<b>53</b>
Accessories	<b>54</b>

## Cable Gland & Cleat Selector

### For XLPE/SWA/PVC and LSF 600/1000 Volt Power Cables

CABLE SPEC		CLEATS				GLANDS		
Conductor Area mm <sup>2</sup>	Number of cores	Telcleats 385AA	Aluminium Claw Cleats 370BA	Plastic LSF Cleats E	Aluminium Cleats SW1/2B	BW Indoor	CW Indoor/Outdoor	E1W E1WF
1.5	2	1	1	0	-	20S	20SS	20SS
	3	1	1	0	-	20S	20SS	20SS
	4	1	1	0	-	20S	20S	20S
	7	2	2	1	2	20S	20S	20S
	12	3	3	2	3	20	20	20
	19	4	4	3	4	25	25	25
	27	5	5	4	5	25	25	25
	37	6	6	5	6	32	32	32
2.5	48	6	6	5	6	32	32	32
	2	1	2	0	2	20S	20S	20S
	3	1	2	1	2	20S	20S	20S
	4	2	2	1	2	20S	20S	20S
	7	2	3	2	3	20	20	20
	12	4	4	3	4	25	25	25
	19	5	5	4	5	25	25	25
	27	6	6	5	6	32	32	32
4	37	6	6	6	6	40	40	40
	2	2	2	1	2	20S	20S	20S
	3	2	2	1	2	20	20	20
6	4	3	3	2	3	20	20	20
	2	3	3	2	3	20	20	20
	3	3	3	2	3	20	20	20
10	4	4	4	3	4	20	20	20
	2	4	4	3	4	25	25	25
	3	4	4	3	4	25	25	25
16	4	4	5	4	5	25	25	25
	2	4	4	3	4	25	25	25
	3	4	5	4	5	25	25	25
25	4	5	6	4	6	25	25	25
	2	4	4	4	4	25	25	25
	3	5	6	5	6	32	32	32
35	4	6	6	5	6	32	32	32
	2	5	5	5	5	32	32	32
	3	5	6	5	6	32	32	32
50	4	6	6	5	6	32	32	32
	2	5	6	5	6	32	32	32
	3	6	6	5	6	32	32	32
70	4	6	6	6	6	40	40	40
	2	6	6	5	6	32	32	32
	3	6	7	6	7	40	40	40
95	4	7	7	7	7	40	40	40
	2	6	7	6	7	40	40	40
	3	7	7	7	7	40	40	40
120	4	8	8	7	8	50	50	50S
	2	7	7	6	7	40	40	40
	3	7	8	7	8	50	50	50S
150	4	8	9	8	9	50	50	50
	2	7	8	7	8	50	50	50S
	3	8	9	8	9	50	50	50S
185	4	-	10	9	10	50	50	50
	2	8	9	8	9	50	50	50S
	3	8	9	9	9	50	50	50
240	4	-	10	10	10	63	63	63S
	2	8	9	8	9	50	50	50
	3	-	10	10	10	63	63	63S
300	4	-	11	11	11	63	63	63
	2	-	10	9	10	63	63	63S
	3	-	11	11	11	63	63	63
400	4	-	12	12	12	75	75	75S
	2	-	11	10	11	63	63	63
	3	-	12	12	12	75	75	75S
	4	-	13	14	13	75	75	75

Gland size recommendations only apply to Prysmian Glands - as stocked by Jointing Tech



### FEATURES

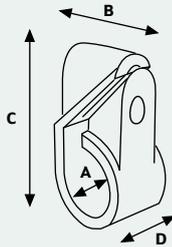
- Light duty wrap around cleat
- Overlapping self adjusting ranges
- One piece, single fixing design
- Can be double stacked one fixing
- Black UV Resistant
- Eight sizes in range
- Operating temperature -70°C to +70°C
- LSF type tested to LUL specification
- Black low-density polyethylene - unaffected by corrosive environments, oils and many chemicals
- Flammability rating UL 94 - V2

**Indoor for 10 - 51mm diameter cables**

Part Number		Diameter Range
Standard	LSF	
<b>385AA01</b>	<b>385LSF01</b>	10-15mm
<b>385AA02</b>	<b>385LSF02</b>	12-17mm
<b>385AA03</b>	<b>385LSF03</b>	15-20mm
<b>385AA04</b>	<b>385LSF04</b>	18-24mm

Part Number		Diameter Range
Standard	LSF	
<b>385AA05</b>	<b>385LSF05</b>	22-29mm
<b>385AA06</b>	<b>385LSF06</b>	26-34mm
<b>385AA07</b>	<b>385LSF07</b>	32-42mm
<b>385AA08</b>	<b>385LSF08</b>	39-51mm

### Cable Cleat Details



Cable & Cleat Section		Cleat Details							
Part Number	Cable Diameter Range A	Dimensions (mm)				SWL (FOS 3) kgf	Approx. Weight g	Roundhead Woodscrew for Masonry, Concrete or Wood ins x No	Screw Cable Tray mm
		B		C	D				
Min	Max								
385AA01	10-15mm	15	18	32	12	17	2.3	1 1/4 x 8	M4 x 30
385AA02	12-17mm	17	22	36	14	22	3.4	1 1/2 x 8	M4 x 35
385AA03	15-20mm	21	26	43	16	32	5.5	1 3/4 x 8	M4 x 40
385AA04	18-24mm	25	31	51	18	40	8.6	2 x 8	M4 x 45
385AA05	22-29mm	30	37	57	20	47	12.4	2 1/4 x 12	M6 x 50
385AA06	26-34mm	35	43	65	22	59	16.4	2 1/2 x 12	M6 x 60
385AA07	32-42mm	42	52	78	25	79	24	2 3/4 x 12	M6 x 70
385AA08	39-51mm	50	62	91	26	82	35	3 1/4 x 12	M7 x 80

## Single and Two Bolt Cleat - LSF

### FEATURES

- Low Smoke Fume (LSF) Product
- Compact mechanical properties offering high impact strength
- Self Extinguishing and flame retardant
- Can be double stacked
- 16 sizes in range
- Operating temperature range -10°C to +120°C
- Two bolt cleats available in red for MV cables



**Indoor and outdoor for  
8.5mm to 81mm diameter  
cables**

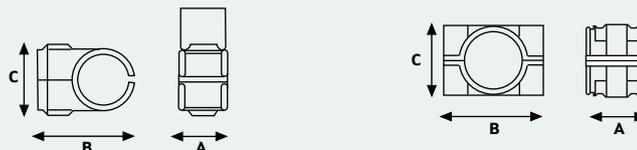
SINGLE BOLT CLEAT Part Number	Diameter Range
CE00	8.5-11mm
CE0	11-13.5mm
CE1	13.5-16mm
CE2	16-19mm
CE3	19-22mm

SINGLE BOLT CLEAT Part Number	Diameter Range
CE4	22-26.5mm
CE5	26.5-32mm
CE6	32-38mm
CE7	38-44mm
CE8	44-50mm

TWO BOLT CLEATS Part Number		Diameter Range
Black	Red	
CE9	CEH9	50-54.5mm
CE10	CEH10	54.5-59mm
CE11	CEH11	59-64mm

TWO BOLT CLEATS Part Number		Diameter Range
Black	Red	
CE12	CEH12	64-68mm
CE13	CEH13	68-74mm
CE14	CEH14	74-81mm

### Cable Cleat Details



Part Number	Cable Diameter mm		Cleat Dimensions mm			Approx. Weight g
	Min	Max	A	B	C	
E00	8.5	11	43	47	33	34
E0	11	13.5	43	51	35	37
E1	13.5	16	43	54	38	42
E2	16	19	43	58	41	45
E3	19	22	43	60	44	50
E4	22	26.5	43	64	48	56
E5	26.5	32	43	70	54	62
E6	32	38	43	80	60	79
E7	38	44	43	85	66	83
E8	44	50	43	88	71	87
E9	50	54.5	60	97	67	121
E10	54.5	59	60	97	72	131
E11	59	64	60	97	76	145
E12	64	68	60	116	80	166
E13	68	74	60	116	90	168
E14	74	81	60	116	90	188

## Single Bolt Hook Cleat - Heavy Duty



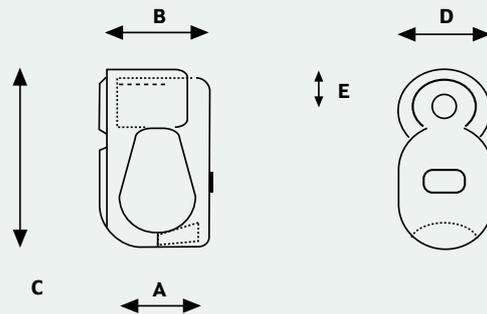
### FEATURES

- Manufactured from glass filled nylon and LSOH materials
- Can take a large range of cables
- Can be installed in a temporary open position
- Two piece single fixing design
- Can be double stacked on one fixing
- Black UV resistant
- Available in six sizes
- Operating temperature -20°C to +90°C

Indoor/Outdoor for 25mm to 80mm diameter cables

Part Number		Diameter Range	Part Number		Diameter Range
Standard	LSF		Standard	LSF	
384AA01	384LSF01	25-35mm	384AA04	384LSF04	52-62mm
384AA02	385LSF02	34-44mm	384AA05	384LSF05	61-71mm
384AA03	384LSF03	43-53mm	384AA06	384LSF06	70-80mm

### Cable Cleat Details



Part Number	Cable Diameter A mm		Cleat Dimensions mm				
			B		C	D	E
	Min	Max	Min	Max			
384AA01	25	35	36	46	76	40	18
384AA02	34	44	44	54	85	40	18
384AA03	43	53	56.5	66.5	96	40	18
384AA04	52	62	65.5	75.5	106	40	18
384AA05	61	71	78	88	119	44	20
384AA06	70	80	87	97	129	44	20

Single Bolt Claw Cleat

FEATURES

- High Grade LM6 Aluminium
- Can be used on all types of cable routes
- Available in cast iron to withstand a two hour excursion to 1000°C
- Plain finish-for normal industrial areas or outdoor unpolluted areas
- Epoxy coated version available for harsher environments
- Packing pieces to be used where required
- Two piece, single fixing design
- Single bolt can be stacked to a maximum of three on one fixing
- Available in nine sizes
- Operating temperature -60°C to +105°C



Indoor/Outdoor for 10mm to 51mm diameter cables

Part Number	Diameter Range
C370BA01	10-13mm
C370BA02	13-16mm
C370BA03	16-19mm
C370BA04	19-22mm
C370BA05	22-25mm

Part Number	Diameter Range
C370BA06	25-32mm
C370BA07	32-38mm
C370BA08	38-44mm
C370BA09	44-51mm

Cable Cleat Details

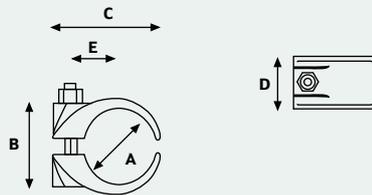


Table & Cleat Selection			Cleat Details					Approx. Weight	Stud Size
Part Number	Cable Diameter A mm		Dimensions mm						
	Min	Max	B	C	D	E			
370BA01	10	13	21	38	46	16	60	M10	
370BA02	13	16	21	38	46	16	50	M10	
370BA03	16	19	24	41	46	18	60	M10	
370BA04	19	22	27	44	46	19	70	M10	
370BA05	22	25	30	48	46	21	80	M10	
370BA06	25	32	37	54	46	24	90	M10	
370BA07	32	38	43	60	46	27	110	M10	
370BA08	38	44	49	67	46	30	120	M10	
370BA09	44	51	56	73	46	34	150	M10	



**FEATURES**

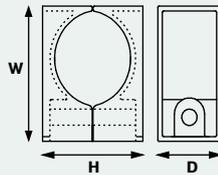
- High grade aluminium LM6
- Can be used on all types of cable routes
- Two piece, single fixing design
- Product can be double stacked
- Available on request in epoxy coated version for more hostile environments
- Operating Temperature -60C to +85C
- Tested to BS EN 50383
- LM6 Grade Aluminium to BS 1432

**Indoor/Outdoor for 13mm to 70mm diameter cables**

Part Number	Diameter Range
SW1B2	13-16mm
SW1B3	16-19mm
SW1B4	19-22mm
SW1B5	22-25mm
SW1B6	25-32mm
SW1B7	32-38mm

Part Number	Diameter Range
SW1B8	38-44mm
SW1B9	44-51mm
SW1B10	51-57mm
SW1B11	57-64mm
SW1B12	64-70mm

**Cable Cleat Details**



Part Number	Cable Range		Dimensions			Fixing Hole mm	Item Weight g
	Min Dia mm	Max Dia mm	W mm	H mm	D mm		
SW1B2	13	16	44	34	43	M10	80
SW1B3	16	19	48	36	43	M10	91
SW1B4	19	22	50	38	43	M10	98
SW1B5	22	25	53	40	43	M10	100
SW1B6	25	32	59	44	43	M10	120
SW1B7	32	38	65	50	43	M10	132
SW1B8	38	44	71	56	43	M10	152
SW1B9	44	51	78	63	43	M10	168
SW1B10	51	57	84	73	43	M10	202
SW1B11	57	64	91	80	43	M10	189
SW1B12	64	70	97	89	43	M10	253

Two Bolt Cleat

FEATURES

- High Grade Aluminium LM6
- Two piece, two fixing design
- Can be double stacked on common fixings
- Available in epoxy coated version for more hostile environments
- Tested to BS EN 50368
- Operating temperature -60°C to + 100°C
- Larger sizes have optional rubber liners



Indoor/Outdoor for 51mm to 159mm diameter cables

Part Number	Diameter Range
370BA10	51-57mm
370BA11	57-64mm
370BA12	64-70mm
370BA13	70-76mm
370BA14	76-83mm
370BA15	83-89mm
370BA16	89-95mm
370BA17	95-101mm
370BA18	101-108mm

Part Number	Diameter Range
370BA19	108-114mm
370BA30	115-121mm
370BA31	121-127mm
370BA32	127-133mm
370BA33	133-140mm
370BA34	140-146mm
370BA35	146-152mm
370BA36	152-159mm

Cable Cleat Details

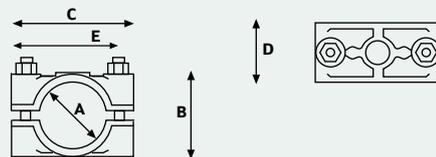


Table & Cleat Selection			Cleat Details					Approx. Weight	Stud Size
Design Number	Cable Diameter A mm		Dimensions mm						
	Min	Max	B Max	C	D	E			
370BA10	51	57	70	98	49	76	230	M10	
370BA11	57	64	76	98	49	76	240	M10	
370BA12	64	70	82	135	64	114	384	M10	
370BA13	70	76	88	135	64	114	385	M10	
370BA14	76	83	96	140	64	114	420	M12	
370BA15	83	89	101	140	64	114	490	M12	
370BA16	89	95	108	152	76	126	642	M12	
370BA17	95	101	114	152	76	126	642	M12	
370BA18	101	108	120	165	76	140	650	M12	
370BA19	108	114	126	165	76	140	650	M12	
370BA30	115	121	133	175	100	150	734	M12	
370BA31	121	127	139	175	120	150	720	M12	
370BA32	127	133	145	200	120	175	970	M12	
370BA33	133	140	152	200	120	175	956	M12	
370BA34	140	146	158	200	120	175	935	M12	
370BA35	146	152	164	210	120	185	893	M12	
370BA36	152	159	172	215	150	190	1325	M12	



**FEATURES**

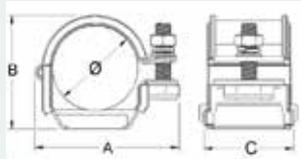
- Suitable for use with cable diameters 33 to 150mm
- Single way, single bolt fixing
- Operating temperature -40°C to +120°C
- Simple installation with single tool tightening from the top side
- Manufactured from non-magnetic, corrosion resistant 316L stainless steel
- Cleat complete with LSOH rubber liner
- Suitable for use with single and multicore cables with high fault current requirements
- Can be used in harsh environments
- Complies with IEC 61914:2009

**Indoor/Outdoor for 33mm to 150mm diameter cables**

Part Number	Diameter Range
<b>379SC01</b>	33-40mm
<b>379SC02</b>	38-46mm
<b>379SC03</b>	45-53mm
<b>379SC04</b>	52-60mm
<b>379SC05</b>	59-67mm

Part Number	Diameter Range
<b>379SC06</b>	66-74mm
<b>379SC07</b>	72-82mm
<b>379SC08</b>	82-92mm
<b>379SC09</b>	92-103mm

**Cable Cleat Details**



Part Number	Cable Diameter	Dimensions (mm)			Weight (g)
		A	B	C	
379CS01	33-40mm	86	65	60	435
379CS02	38-46mm	92	71	60	467
379CS03	45-53mm	99	78	60	499
379CS04	52-60mm	106	85	60	530
379CS05	59-67mm	113	92	60	526
379CS06	66-74mm	120	99	60	558
379CS07	72-82mm	132	111	60	639
379CS08	82-92mm	141	120	60	683
379CS09	92-103mm	151	130	60	737
379CS10	103-113mm	160	139	60	784
379CS11	113-123mm	169	148	60	764
379CS12	122-132mm	178	157	60	865
379CS13	131-141mm	187	165	60	908
379CS14	140-150mm	196	175	60	950

## Shoe Cleat

### FEATURES

- To allow greater distances between each cable cleat
- Designed to allow potentially damaging load to be spread over a longer length
- Based on the 370 series aluminium two bolt cleat with the shoe made from 316L stainless steel
- Complete with a rubber liner
- Designed and formed with the correct bend radius to match the cables expansion curve

**BRICON**



### Cable Cleat Details

Part Number	Cable Diameter	Stud Size	Bolt Centres	Length	Expansion Radius
370BA16SL	78-85mm	M12	126mm	400mm	3000
370BA30SL	105-111mm	M12	150mm	450mm	3000
370BA31SL	111-117mm	M12	150mm	500mm	3000
370BA32SL	117-123mm	M12	175mm	600mm	3000
370BA33SL	123-130mm	M12	175mm	700mm	3000
370BA34SL	130-136mm	M12	175mm	700mm	3000
370BA35SL	136-142mm	M12	185mm	800mm	3000
370BA36SL	142-149mm	M12	190mm	800mm	3000

## Linear Short Circuit Straps

### FEATURES

- The linear short circuit strap is to be used in conjunction with shoe cleats on high voltage installations to maintain single core spacings
- Linear straps can be used in vertical or horizontal installations
- Options are available for them to be supplied with or without rubber liners
- Cable separation can be done at 300,400,500,600 or 700mm
- Available in two and three way



**Short circuit straps for 79mm to 156mm diameter cables**

Part Number		Cable Diameter (min-max) mm		
Aluminium Alloy		Epoxy Coated Aluminium Alloy		Cable Diameter (min-max) mm
3 Way	2 Way	3 Way	2 Way	
370SA16-XXX	370SA66-XXX	370SB16-XXX	370SB66-XXX	79-85
370SA17-XXX	370SA67-XXX	370SB17-XXX	370SB67-XXX	85-91
370SA18-XXX	370SA68-XXX	370SB18-XXX	370SB68-XXX	91-98
370SA19-XXX	370SA69-XXX	370SB19-XXX	370SB69-XXX	98-104
370SA30-XXX	370SA80-XXX	370SB30-XXX	370SB80-XXX	105-111
370SA31-XXX	370SA81-XXX	370SB31-XXX	370SB81-XXX	111-117
370SA32-XXX	370SA82-XXX	370SB32-XXX	370SB82-XXX	117-123
370SA33-XXX	370SA83-XXX	370SB33-XXX	370SB83-XXX	123-130
370SA34-XXX	370SA84-XXX	370SB34-XXX	370SB84-XXX	130-136
370SA35-XXX	370SA85-XXX	370SB35-XXX	370SB85-XXX	136-142
370SA36-XXX	370SA86-XXX	370SB36-XXX	370SB86-XXX	142-149
370SA37-XXX	370SA87-XXX	370SB37-XXX	370SB87-XXX	149-156

Replace 'XXX' with 300, 400, 500, 600, 700 for required cable separation



**Indoor/Outdoor for 23mm to 128mm diameter cables**

**FEATURES**

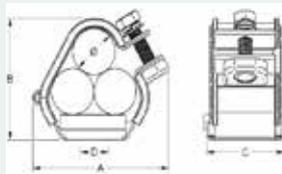
- Suitable for cable diameters 23mm to 128mm
- Available in single and double bolt fixing
- Operating temperatures -40°C to +120°C
- Designed to allow easy installation with single tool tightening from the top side
- Manufactured from non-magnetic, corrosion resistant 316L stainless steel
- Cleats are complete with liner made from LSOH material
- Suitable for single core cables laid in trefoil formation with high fault current requirements
- Can be used in harsh environments
- Complies with IEC 61914:2009

Part Number	Cable Diameter
379TC01	23-28mm
379TC02	27-32mm
379TC03	30-35mm
379TC04	33-38mm
379TC05	36-42mm
379TC06	40-46mm
379TC07	44-50mm
379TC08	48-55mm

Part Number	Cable Diameter
379TC09	51-58mm
379TC10	55-62mm
379TC11	59-66mm
379TC12	63-70mm
379TC13	67-74mm
379TC14	71-78mm
379TC15	74-82mm

Part Number	Cable Diameter
379TC16	77-85mm
379TC17	82-88mm
379TC18	88-96mm
379TC19	96-103mm
379TC20	103-111mm
379TC21	111-119mm
379TC22	119-128mm

**Cable Cleat Details**



Cleat Selection		Cable Cleat Dimensions (mm)				Weight (g)
Part Number	Cable Diameter	A	B	C	D	
379TC01	23-28mm	86	71	60	Centre Hole	500
379TC02	27-32mm	92	78	60	25	531
379TC03	30-35mm	98	84	60	25	558
379TC04	33-38mm	102	90	60	25	585
379TC05	36-42mm	108	97	60	25	624
379TC06	40-46mm	115	105	60	25	657
379TC07	44-50mm	120	112	60	25	693
379TC08	48-55mm	129	121	60	50	734
379TC09	51-58mm	133	127	60	50	764
379TC10	55-62mm	140	134	60	50	795
379TC11	59-66mm	145	142	60	50	831
379TC12	63-70mm	150	150	60	50	869
379TC13	67-74mm	157	157	60	75	905
379TC14	71-78mm	164	164	60	75	939
379TC15	74-82mm	172	172	60	75	975
379TC16	77-85mm	178	178	60	75	1010
379TC17	82-88mm	184	184	60	100	1046
379TC18	88-96mm	200	198	60	100	1081
379TC19	96-103mm	214	210	60	100	1117
379TC20	103-111mm	230	225	60	125	1152
379TC21	111-119mm	245	240	60	125	1188
379TC22	119-128mm	264	257	60	150	1223

## Aluminium Trefoil Cleats with Single & Two Bolt Fixing

### FEATURES

- High Grade Aluminium alloy
- Available in either a single bolt or two bolt fixing design
- Can be used for all types of cable routes
- Available in epoxy coated version for more hostile environments
- Fixed with either one or two M10 fixings
- Available in 33 sizes
- Operating temperature -60°C to +100°C
- Tested to BS EN 50368
- Short Circuit Withstand 30KA Rms (76KA Peak)



**Indoor/Outdoor for 24mm to 76mm diameter cables in trefoil formation**

Part Number		Diameter Range
Single Fixing	Two Fixing	
376AC01	376AB01	24-25mm
376AC02	376AB02	25-27mm
376AC03	376AB03	27-28mm
376AC04	376AB04	28-30mm
376AC05	376AB05	30-32mm
376AC06	376AB06	32-34mm
376AC07	376AB07	34-35mm
376AC08	376AB08	35-36mm
376AC09	376AB09	36-38mm
376AC10	376AB10	38-40mm
376AC11	376AB11	40-41mm
376AC12	376AB12	41-43mm
376AC13	376AB13	43-44mm
376AC14	376AB14	44-46mm
376AC15	376AB15	46-48mm
376AC16	376AB16	48-49mm
376AC17	376AB17	49-51mm

Part Number		Diameter Range
Single Fixing	Two Fixing	
376AC18	376AB18	51-53mm
376AC19	376AB19	53-54mm
376AC20	376AB20	54-55.5mm
376AC21	376AB21	55.5-57mm
376AC22	376AB22	57-59mm
376AC23	376AB23	59-60mm
376AC24	376AB24	60-62mm
376AC25	376AB25	62-63.5mm
376AC26	376AB26	63.5-65mm
376AC27	376AB27	65-66.5mm
376AC28	376AB28	66.5-68mm
376AC29	376AB29	68-70mm
376AC30	376AB30	70-71.5mm
376AC31	376AB31	71.5-73mm
376AC32	376AB32	73-74.5mm
376AC33	376AB33	74.5-76mm

**Aluminium Trefoil Cleats with Single & Two Bolt Fixing** *continued*

**Cable cleat details**

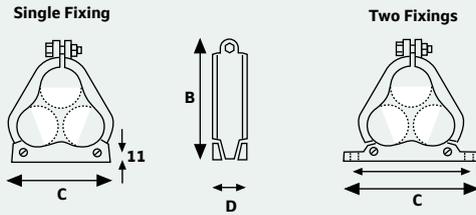


Table & Cleat Selection			Cleat Details						
Design Number	Cable Diameter mm		Dimensions mm					Approx. Weight g	
			B	D	Single Fixing	Two Fixing			
376AC**	Min	Max					C	C	E
01	24	25	94	38	75	128	102	234	276
02	25	27	97	38	75	128	102	241	284
03	27	28	100	38	75	128	102	248	291
04	28	30	103	38	76	130	104	255	298
05	30	32	105	38	79	133	107	269	305
06	32	34	106	38	83	135	109	284	312
07	34	35	109	38	86	137	110	291	319
08	35	36	113	38	89	138	113	298	326
09	36	38	116	38	92	140	114	305	333
10	38	40	119	38	95	145	118	315	340
11	40	41	122	38	99	147	121	319	347
12	41	43	124	38	105	149	123	326	354
13	43	44	127	38	108	150	124	340	369
14	44	46	130	38	112	154	128	354	383
15	46	48	133	38	114	156	129	361	390
16	48	49	137	38	118	159	133	369	397
17	49	51	140	38	121	165	135	376	404
18	51	53	143	38	124	165	137	383	411
19	53	54	146	38	127	172	141	390	418
20	54	55.5	155	44	133	183	152	503	560
21	55.5	57	158	44	137	187	155	517	574
22	57	59	160	44	141	189	157	532	588
23	59	60	163	44	145	191	160	546	602
24	60	62	165	44	148	194	162	552	617
25	62	63.5	168	44	152	196	165	567	631
26	63.5	65	172	44	156	199	168	581	645
27	65	66.5	176	44	160	202	170	602	666
28	66.5	68	178	44	164	205	173	624	687
29	68	70	181	44	168	208	176	652	716
30	70	71.5	187	44	171	215	183	680	745
31	71.5	73	190	44	175	217	186	695	758
32	73	74.5	193	44	179	220	188	709	773
33	74.5	76	197	44	183	222	191	722	787

**Recommended Max Spacings**

- Straight Runs - 900mm
- Vertical Bends - 300mm
- Horizontal bends - Cleat on each support with, if necessary, intermediate unanchored cleats to limit restraint spacing to 300mm

## Multicleat System

### FEATURES

- Multicleat is a stainless steel multistrap with a base
- Multicleat bases are manufactured out of aluminium as standard but are available in epoxy coated aluminium, stainless steel, hot dip galvanised and coated cast iron
- Can be used for all types of cable routes
- Exceptional overlapping ranges
- Non-magnetic materials used throughout
- Recommended spacing dictated by short circuit withstand (see Technical data)
- Available in 26 products for each base type
- Operating Temperature - Aluminium bases -60°C to + 105°C  
- Cast Iron & Stainless Steel bases + 1000°C for two hours
- Tested BS EN 50368
- Short Circuit Withstand - Standard 1.8m spacing= 43KA RMS (Peak 114KA)  
- Heavy 1.5m spacing = 50KA RMS (Peak 130KA)  
- Heavy 1.2m spacing = 71KA RMA (Peak 184KA)
- Two bolt fixing except single bolt PF Type



**Indoor/outdoor for 36mm to 120mm cable diameter for single cable and 24mm to 145mm in trefoil formation**

### MULTICLEAT ALUMINIUM BASE - STANDARD & HEAVY DUTY

Part Number		Cable Diameter for Singles	Cable Diameter for Trefoil
Standard	Heavy Duty		
378AB01	378AB51	36-65mm	24-34mm
378AB02	378AB52	60-85mm	30-41mm
378AB03	378AB53	80-90mm	37-47mm
378AB04	378AB54	85-110mm	43-54mm
378AB05	378AB55	-	50-60mm
378AB06	378AB56	-	56-67mm
378AB07	378AB57	-	63-73mm
378AB08	378AB58	-	69-80mm
378AB09	378AB59	105-120mm	-

Part Number		Cable Diameter for Singles	Cable Diameter for Trefoil
Standard	Heavy Duty		
-	378AB29	85-110mm	-
-	378AB36	-	72-85mm
-	378AB37	-	82-95mm
-	378AB38	-	92-105mm
-	378AB39	-	102-115mm
-	378AB40	-	112-125mm
-	378AB41	-	122-135mm
-	378AB42	-	132-145mm

### MULTICLEAT STAINLESS STEEL BASE - STANDARD & HEAVY DUTY

Part Number		Cable Diameter for Singles	Cable Diameter for Trefoil
Standard	Heavy Duty		
378JB01	378JB51	36-65mm	24-34mm
378JB02	378JB52	60-85mm	30-41mm
378JB03	378JB53	80-90mm	37-47mm
378JB04	378JB54	85-110mm	43-54mm
378JB05	378JB55	-	50-60mm
378JB06	378JB56	-	56-67mm
378JB07	378JB57	-	63-73mm
378JB08	378JB58	-	69-80mm
378JB09	378JB59	105-120mm	-

Part Number		Cable Diameter for Singles	Cable Diameter for Trefoil
Standard	Heavy Duty		
-	378JB29	85-110mm	-
-	378JB36	-	80-110mm
-	378JB37	-	82-95mm
-	378JB38	-	92-105mm
-	378JB39	-	102-115mm
-	378JB40	-	112-125mm
-	378JB41	-	122-135mm
-	378JB42	-	132-145mm

Please contact your nearest sales office for pricing on Multicleats with coated Aluminium, hot dipped galvanised, stainless steel and cast iron bases.

## Multistrap System



**Indoor/Outdoor for  
Single & Trefoil cables –  
24 - 145mm**

### FEATURES

- A multistrap is a strap complete with a tensioning clip, securing pin and winding key all made from high corrosion resistant non-magnetic stainless steel
- They are used as an intermediate restraint between Multicleats
- They may be used to bind cables together
- Multistraps are supplied in two strengths:-  
Standard duty, designed to have two loops of 0.38 mm thick strap around the cables and heavy duty with three straps
- Tested BS EN 50368
- Short Circuit Withstand - Standard 1.8m spacing= 43KA RMS (Peak 114KA)  
- Heavy 1.5m spacing = 50KA RMS (Peak 130KA)  
- Heavy 1.2m spacing = 71KA RMA (Peak 184KA)
- Operating Temperature -60°C to 100°C

### MULTISTRAP STANDARD & HEAVY DUTY

Part Number		Cable Diameter for Trefoil
Standard	Heavy Duty	
<b>377AB01</b>	<b>377AB51</b>	24-34mm
<b>377AB02</b>	<b>377AB52</b>	30-41mm
<b>377AB03</b>	<b>377AB53</b>	37-47mm
<b>377AB04</b>	<b>377AB54</b>	43-54mm
<b>377AB05</b>	<b>377AB55</b>	50-60mm
<b>377AB06</b>	<b>377AB56</b>	56-67mm
<b>377AB07</b>	<b>377AB57</b>	63-73mm
<b>377AB08</b>	<b>377AB58</b>	69-80mm

Part Number		Cable Diameter for Trefoil
Standard	Heavy Duty	
-	<b>377AB29</b>	-
-	<b>377AB36</b>	72-85mm
-	<b>377AB37</b>	82-95mm
-	<b>377AB38</b>	92-105mm
-	<b>377AB39</b>	102-115mm
-	<b>377AB40</b>	112-125mm
-	<b>377AB41</b>	122-135mm
-	<b>377AB42</b>	132-145mm

## LSF Liner



### FEATURES

- LSF liners are installed with multistraps to protect the cable sheaths

Part Number	Applicable Cleat Sizes
<b>377LSF01</b>	01-04 & 51-54
<b>377LSF02</b>	05-09 & 29,39,55-58

## 376TR MV/HV Trefoil Cleats



### FEATURES

- Manufactured from solid aluminium
- Design for use with MV and HV cable designs
- Deep section bases aid cable installation
- Clamping bolt can be used for pilot cables
- Available with single or two bolt fixing
- Available with rubber lining
- Six sizes in range
- Operating Temperature -60°C to + 85°C
- Tested in accordance with BS EN 50368:2003
- Impact Resistance (6.2, 6..2.5, 9.3) - V Heavy > 6.7kg at 300mm.

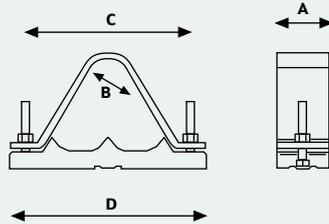


Outdoor for 62mm to 186mm MV/HV diameter cable in trefoil formation

Part Number	Cable Diameter
<b>376TR06</b>	62-75mm
<b>376TR07</b>	75-90mm
<b>376TR08</b>	90-107mm

Part Number	Cable Diameter
<b>376TR09</b>	107-129mm
<b>376TR10</b>	129-155mm
<b>376TR11</b>	155-186mm

### Cable Cleat Details



Design Number	Cable Dimensions B mm	Length A mm	Width O/A D mm	Bolt CRS C mm	Bolt Diameter mm
376TR06	62-75	80	260	216	12
376TR07	75-90	80	295	251	12
376TR08	90-107	100	340	296	12
376TR09	107-129	100	390	346	12
376TR10	129-155	125	450	406	12
376TR11	155-186	150	525	481	12



**Orion Shaped Cleat**



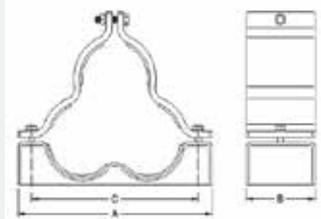
**FEATURES**

- Heavy duty trefoil cleat covering cable O/D from 85mm to 155mm
- Available in epoxy coated for marine applications
- Suitable for LV,MV and HV cable designs
- Operating temperature -40°C to +105°C
- Orion cleat features a deep cast base to aid easy cable installation.
- Resistance to short circuit, 63LA RMS, 164KA peak

Part Number	Cable Diameter
<b>STANDARD RANGE (SR)</b>	
<b>376SR05</b>	85-95mm
<b>376SR06</b>	95-105mm
<b>376SR07</b>	105-115mm
<b>376SR08</b>	115-125mm
<b>376SR09</b>	125-135mm
<b>376SR10</b>	135-145mm
<b>376SR11</b>	145-155mm

Part Number	Cable Diameter
<b>EPOXY COATED RANGE (SE)</b>	
<b>376SE05</b>	85-95mm
<b>376SE06</b>	95-105mm
<b>376SE07</b>	105-115mm
<b>376SE08</b>	115-125mm
<b>376SE09</b>	125-135mm
<b>376SE10</b>	135-145mm
<b>376SE11</b>	145-155mm

**Cable Cleat Details**



Part Number		Cable Diameter	Dimensions (mm)			Fixing Size	Weight (kg)
Standard	Epoxy Coated		A	C	B		
376SR05	376SE05	85-95mm	320	260	100	M12	3.4
376SR06	376SE06	95-105mm	340	280	110	M12	4.2
376SR07	376SE07	105-115mm	360	300	120	M12	4.9
376SR08	376SE08	115-125mm	380	324	130	M12	5.5
376SR09	376SE09	125-135mm	400	344	140	M12	6.0
376SR10	376SE10	135-145mm	420	370	150	M12	6.7
376SR11	376SE11	145-155mm	450	390	150	M12	7.6

## Bolts

### FEATURES

- General purpose fixing bolts
- Stainless steel bolts also available



Part Number		Size
Zinc Plated	Brass	
<b>FHB06X20</b>	<b>FBB06X20</b>	M6 x 20mm
<b>FHB06X30</b>	<b>FBB06X30</b>	M6 x 30mm
<b>FHB08X25</b>	<b>FBB08X25</b>	M8 x 25mm
<b>FHB08X30</b>	<b>FBB08X30</b>	M8 x 30mm
<b>FHB08X40</b>	<b>FBB08X40</b>	M8 x 40mm
<b>FHB10X25</b>	<b>FBB10X25</b>	M10 x 25mm
<b>FHB10X30</b>	<b>FBB10X30</b>	M10 x 30mm

Part Number		Size
Zinc Plated	Brass	
<b>FHB10X40</b>	<b>FBB10X40</b>	M10 x 40mm
<b>FHB10X50</b>	<b>FBB10X50</b>	M10 x 50mm
<b>FHB12X35</b>	<b>FBB12X35</b>	M12 x 35mm
<b>FHB12X40</b>	<b>FBB12X40</b>	M12 x 40mm
<b>FHB12X50</b>	<b>FBB12X50</b>	M12 x 50mm
<b>FHB12X70</b>	<b>FBB12X70</b>	M12 x 70mm

## Nuts

### FEATURES

- General purpose fixing nuts
- Stainless steel nuts also available



Part Number		Size
Bright Zinc Plated Nut	Brass Nut	
<b>FHN06</b>	<b>FBN06</b>	M6
<b>FHN08</b>	<b>FBN08</b>	M8

Part Number		Size
Bright Zinc Plated Nut	Brass Nut	
<b>FHN10</b>	<b>FBN10</b>	M10
<b>FHN12</b>	<b>FBN12</b>	M12

## Channel Nuts (all types)

### FEATURES

- Designed to fit into channel so cleats can be fitted



Part Number			Hole Size
No Spring	Short Spring	Long Spring	
<b>FCNN06</b>	<b>FCNS06</b>	<b>FCNL06</b>	6mm
<b>FCNN08</b>	<b>FCNS08</b>	<b>FCNL08</b>	8mm

Part Number			Hole Size
No Spring	Short Spring	Long Spring	
<b>FCNN10</b>	<b>FCNS10</b>	<b>FCNL10</b>	10mm
<b>FCNN12</b>	<b>FCNS12</b>	<b>FCNL12</b>	12mm

Other sizes available, please contact your local sales office for more details

**Spring & Flat Washers**



**FEATURES**

- General purpose fixing washers
- Other sizes available
- Stainless steel washers also available

Part Number				Size
Phosphor Bronze Spring	Bright Zinc Plated Flat	Bright Zinc Plated Spring	Brass Flat	
<b>FBSW06</b>	<b>FFW06</b>	<b>FSW06</b>	<b>FBW06</b>	M6
<b>FBSW08</b>	<b>FFW08</b>	<b>FSW08</b>	<b>FBW08</b>	M8

Part Number				Size
Phosphor Bronze Spring	Bright Zinc Plated Flat	Bright Zinc Plated Spring	Brass Flat	
<b>FBSW10</b>	<b>FFW10</b>	<b>FSW10</b>	<b>FBW10</b>	M10
<b>FBSW12</b>	<b>FFW12</b>	<b>FSW12</b>	<b>FBW12</b>	M12

**Threaded Rod**



**FEATURES**

- Threaded rod for use with cable cleats
- Other sizes available

Part Number	Material	Size	Length
<b>M10X85</b>	BZP	M10	85mm
<b>M10X100</b>	BZP	M10	100mm
<b>M10X125</b>	BZP	M10	125mm

Also available in other sizes

Part Number	Material	Size	Length
<b>M10X150</b>	BZP	M10	150mm
<b>M10X200</b>	BZP	M10	200mm
<b>M10X225</b>	BZP	M10	225mm

Also available in Stainless Steel

**Packing Pieces**



**FEATURES**

- Required when stacking claw cleats
- Other sizes available

Part Number	Description
<b>389AC03</b>	Aluminium alloy, plain

Part Number	Description
<b>389AC04</b>	Aluminium alloy, epoxy coated

Also available in Stainless Steel

**Adaptor Plates**



**FEATURES**

- Required when mounting smaller cleats directly on to 41mm wide channel
- Other sizes available

Part Number	Description
<b>380AG02</b>	M10 Galvanised

Also available in Stainless Steel



# Jointing Tech

## Rail | Helping you make the right connection

**Jointing Tech is a specialist electrical distributor supplying a full range of power cable and accessories into the rail industry for substations, feeders, signalling power, civils and construction projects.**

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- Cable Glands
- Cable Cleats
- MV Terminations
- Insulation Products
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- Lugs and Connectors
- MV Joints
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- Cable Troughing

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# Cable Ties and Marking Systems

## Contents

Nylon Cable Ties	<b>58</b>
Stainless Steel Cable Ties	<b>59</b>
Stainless Steel Banding System	<b>62</b>
All Round Band & Accessories	<b>63</b>
Easy Read System	<b>64</b>
Nylon Cable Markers	<b>65</b>

### Standard Cable Ties

#### FEATURES

- All ties are one-piece moulded mechanisms with bend finger grip tip
- Low threading force with no sharp edges to ensure safe handling and easy installation
- Made with virgin nylon 6/6 resin.
- Self-extinguishing
- Operating temperature for LD and MD range -40°C to +85°C
- Operating temperature for HD range -40°C to + 105°C
- Highly resistant against oil, grease, hydrocarbons and alkalis up to 40%



Part Number	Length	Width	Max O/D	Tensile Strength	UOM
<b>Light Duty Cable Tie</b>					
LD06BK	143mm	3.6mm	33mm	18.2kg	100
LD06WH	143mm	3.6mm	33mm	18.2kg	100
LD08BK	202mm	3.6mm	50mm	18.2kg	100
LD08WH	202mm	3.6mm	50mm	18.2kg	100
LD12BK	303mm	3.6mm	76mm	18.2kg	100
LD12WH	303mm	3.6mm	76mm	18.2kg	100
<b>Medium Duty Cable Tie</b>					
MD06BK	160mm	4.8mm	38mm	22kg	100
MD06WH	160mm	4.8mm	38mm	22kg	100
MD08BK	202mm	4.8mm	50mm	22kg	100
MD08WH	202mm	4.8mm	50mm	22kg	100
MD12BK	280mm	4.8mm	70mm	22kg	100
MD12WH	280mm	4.8mm	70mm	22kg	100
MD15BK	370mm	4.8mm	102mm	22kg	100
MD15WH	370mm	4.8mm	102mm	22kg	100
<b>Heavy Duty Cable Tie</b>					
HD12BK	302mm	7.6mm	76mm	54kg	100
HD12WH	302mm	7.6mm	76mm	54kg	100
HD15BK	370mm	7.6mm	102mm	54kg	100
HD15WH	370mm	7.6mm	102mm	54kg	100
HD21BK	535mm	7.6mm	140mm	54kg	100
HD21WH	535mm	7.6mm	140mm	54kg	100
HD30BK	768mm	7.6mm	222mm	54kg	100
HD30WH	768mm	7.6mm	222mm	54kg	100

### Ball-Lok Ties - Uncoated



#### FEATURES

- Self locking stainless steel cable ties for use in hazardous area environments
- Operating Temperature - 80°C to + 538°C
- UL, Lloyd Register, DNV and US Coast Guard approved

### Ball-Lok stainless steel cable ties for cable bundles from 50 - 305mm

Part number	Material	Size mm	Bundle Diameter mm	Tensile in N	Pack Quantity
KE1128	304 Grade S/S	201 x 4.6	50	890	100
KE1138	304 Grade S/S	259 x 4.6	69	890	100
KE1148	304 Grade S/S	360 x 4.6	102	890	100
KE1158	304 Grade S/S	520 x 4.6	152	890	100
KE1168	304 Grade S/S	679 x 4.6	203	890	100
KE1178	304 Grade S/S	838 x 4.6	254	890	100
KE1188	304 Grade S/S	1067 x 4.6	305	890	100
KE1328	304 Grade S/S	201 x 7.9	50	1335	100
KE1338	304 Grade S/S	259 x 7.9	69	1335	100
KE1348	304 Grade S/S	360 x 7.9	102	1335	100
KE1358	304 Grade S/S	520 x 7.9	152	1335	100
KE1368	304 Grade S/S	679 x 7.9	203	1335	100
KE1378	304 Grade S/S	838 x 7.9	254	1335	100
KE1388	304 Grade S/S	1067 x 7.9	305	1335	100

Part number	Material	Size mm	Bundle Diameter mm	Tensile in N	Pack Quantity
KE0128	316 Grade S/S	201 x 4.6	50	890	100
KE0138	316 Grade S/S	259 x 4.6	69	890	100
KE0148	316 Grade S/S	360 x 4.6	102	890	100
KE0158	316 Grade S/S	520 x 4.6	152	890	100
KE0168	316 Grade S/S	679 x 4.6	203	890	100
KE0178	316 Grade S/S	838 x 4.6	254	890	100
KE0188	316 Grade S/S	1067 x 4.6	305	890	100
KE0328	316 Grade S/S	201 x 7.9	50	1335	100
KE0338	316 Grade S/S	259 x 7.9	69	1335	100
KE0348	316 Grade S/S	360 x 7.9	102	1335	100
KE0358	316 Grade S/S	520 x 7.9	152	1335	100
KE0368	316 Grade S/S	679 x 7.9	203	1335	100
KE0378	316 Grade S/S	838 x 7.9	254	1335	100
KE0388	316 Grade S/S	1067 x 7.9	305	1335	100

### Ball-Lok Ties - Coated



#### FEATURES

- Self locking stainless steel cable ties for use in hazardous area environments
- Epoxy coated to avoid damage to cable sheaths
- Operating Temperature - 80°C to + 538°C
- UL, Lloyd Register, DNV and US Coast Guard approved

### Coated Ball-Lok stainless steel cable ties for cable bundles for 50 - 254mm

Part number	Material	Size mm	Bundle Diameter mm	Tensile in N	Pack Quantity
KE0228	Coated 316 Grade S/S	201 x 4.6	50	668	100
KE0238	Coated 316 Grade S/S	259 x 4.6	69	668	100
KE0248	Coated 316 Grade S/S	360 x 4.6	102	668	100
KE0258	Coated 316 Grade S/S	520 x 4.6	152	668	100
KE0268	Coated 316 Grade S/S	679 x 4.6	203	668	100
KE0278	Coated 316 Grade S/S	838 x 4.6	254	668	100

Part number	Material	Size mm	Bundle Diameter mm	Tensile in N	Pack Quantity
KE0428	Coated 316 Grade S/S	201 x 7.9	50	1112	100
KE0438	Coated 316 Grade S/S	259 x 7.9	69	1112	100
KE0448	Coated 316 Grade S/S	360 x 7.9	102	1112	100
KE0458	Coated 316 Grade S/S	520 x 7.9	152	1112	100
KE0468	Coated 316 Grade S/S	679 x 7.9	203	1112	100
KE0478	Coated 316 Grade S/S	838 x 7.9	254	1112	100

### Tie-Lok Ties - Uncoated

#### FEATURES

- Low Profile stainless steel cable ties for use in hazardous area environments
- Operating Temperature - 80°C to + 538°C
- DNV approved
- All available in 316 grade Stainless Steel



**Tie-Lok stainless steel cable ties for cable bundles from 25-254mm**

Part number	Material	Size mm	Bundle Diameter mm	Tensile in N	Pack Quantity
AS221	304 Grade S/S	154 x 4.5	25	445	100
AS222	304 Grade S/S	254 x 4.5	51	445	100
AS223	304 Grade S/S	406 x 4.5	102	445	100
AS224	304 Grade S/S	572 x 4.5	152	445	100
AS225	304 Grade S/S	737 x 4.5	203	445	100

Part number	Material	Size mm	Bundle Diameter mm	Tensile in N	Pack Quantity
AS211	304 Grade S/S	254 x 6.35	51	890	100
AS212	304 Grade S/S	419 x 6.35	101	890	100
AS213	304 Grade S/S	572 x 6.35	152	890	100
AS214	304 Grade S/S	737 x 6.35	203	890	100
AS215	304 Grade S/S	889 x 6.35	254	890	100

### Multi-Lok Ties - Uncoated

#### FEATURES

- Multi locking stainless steel cable ties for use in hazardous area environments
- Operating Temperature - 80°C to + 538°C
- UL, Lloyd Register, DNV and US Coast Guard approved



**Multi-Lok stainless steel cable ties for cable bundles from 48-193mm**

Part number	Material	Size mm	Bundle Diameter mm	Tensile in N	Pack Quantity
AE601	316 Grade S/S	150 x 7	48	890	100
AE602	316 Grade S/S	225 x 7	71	890	100
AE603	316 Grade S/S	300 x 7	96	890	100
AE604	316 Grade S/S	450 x 7	144	890	100
AE605	316 Grade S/S	610 x 7	193	890	100

Part number	Material	Size mm	Bundle Diameter mm	Tensile in N	Pack Quantity
AE701	316 Grade S/S	150 x 12	48	1112	100
AE702	316 Grade S/S	225 x 12	71	1112	100
AE703	316 Grade S/S	300 x 12	96	1112	100
AE704	316 Grade S/S	450 x 12	144	1112	100
AE705	316 Grade S/S	610 x 12	193	1112	100

### Multi-Lok Ties - Coated

#### FEATURES

- Multi locking stainless steel cable ties for use in hazardous area environments
- Nylon 11 black coated to avoid damage to the cable sheaths
- Operating Temperature - 80°C to + 538°C
- UL, Lloyd Register, DNV and US Coast Guard approved



**Coated Multi-Lok stainless steel cable ties for cable bundles from 48-180mm**

Part number	Material	Size mm	Bundle Diameter mm	Tensile in N	Pack Quantity
AE611	Coated 316 Grade S/S	150 x 7	33	890	100
AE612	Coated 316 Grade S/S	225 x 7	57	890	100
AE613	Coated 316 Grade S/S	300 x 7	81	890	100
AE614	Coated 316 Grade S/S	450 x 7	129	890	100
AE615	Coated 316 Grade S/S	610 x 7	180	890	100

Part number	Material	Size mm	Bundle Diameter mm	Tensile in N	Pack Quantity
AE711	Coated 316 Grade S/S	150 x 12	33	1112	100
AE712	Coated 316 Grade S/S	225 x 12	57	1112	100
AE713	Coated 316 Grade S/S	300 x 12	81	1112	100
AE714	Coated 316 Grade S/S	450 x 12	129	1112	100
AE715	Coated 316 Grade S/S	610 x 12	180	1112	100

### Band-It Ties - Coated



**Coated Band-It stainless steel cable ties for cable bundles from 38-185mm**

#### FEATURES

- Releasable stainless steel cable ties for use in hazardous area environments
- PPA 571 black coated to avoid damage to the cable sheaths
- Available in two widths (6.4mm & 9.6mm)
- Operating temperature -80°C to +538°C
- UL, Lloyd Register, DNV and US Coast Guard approved.
- CE Marked

Part number	Material	Size mm	Bundle Diameter mm	Pack Quantity
AE111	Coated 316 Grade S/S	152 x 6.4	38	100
AE112	Coated 316 Grade S/S	229 x 6.4	63	100
AE113	Coated 316 Grade S/S	305 x 6.4	86	100
AE114	Coated 316 Grade S/S	457 x 6.4	137	100
AE115	Coated 316 Grade S/S	610 x 6.4	185	100
AE311	Coated 316 Grade S/S	152 x 9.6	38	100
AE312	Coated 316 Grade S/S	229 x 9.6	63	100
AE313	Coated 316 Grade S/S	305 x 9.6	86	100
AE314	Coated 316 Grade S/S	457 x 9.6	137	100
AE315	Coated 316 Grade S/S	610 x 9.6	185	100

### Band-Fast System



**Band-Fast cable restraint clamps for single, trefoil & quadfoil cable formations**

#### FEATURES

- Designed for heavy duty cable bundling and clamping applications as an alternative to conventional cable cleats
- Low cost alternative to cable cleats - up to 50% labour saving
- No accessories required (fixing, liners, packers and studding etc)
- Zero halogen, low smoke and fume product
- PPA 571 black coated to avoid damage to the cable sheaths
- Independently tested for shock and short circuit characteristics
- Suitable for single, trefoil or quadfoil cable formations
- Available for single or double wrap applications
- DNV and GL Type Approved Material
- Temperature Rating -50°C to +538°C

Part number	Type	Material	Size mm	Max Cable Diameter Single/Trefoil/Quadfoil	Pack Quantity
BANDF11	Single	Coated 316 Grade S/S	300x16	40mm/13mm/12mm	100
BANDF12	Single	Coated 316 Grade S/S	400x16	75mm/28mm/25mm	100
BANDF13	Single	Coated 316 Grade S/S	500x16	100mm/43mm/37mm	100
BANDF14	Single	Coated 316 Grade S/S	600x16	130mm/57mm/50mm	100
BANDF15	Single	Coated 316 Grade S/S	700x16	160mm/70mm/60mm	100
BANDF21	Double	Coated 316 Grade S/S	300x16	25mm/10mm/9mm	100
BANDF22	Double	Coated 316 Grade S/S	400x16	50mm/13mm/12mm	100
BANDF23	Double	Coated 316 Grade S/S	500x16	55mm/21mm/18mm	100
BANDF24	Double	Coated 316 Grade S/S	600x16	70mm/28mm/25mm	100
BANDF25	Double	Coated 316 Grade S/S	700x16	85mm/35mm/31mm	100
BANDF26	Double	Coated 316 Grade S/S	800x16	100mm/42mm/37mm	100
BANDF27	Double	Coated 316 Grade S/S	1000x16	130mm/57mm/50mm	100

### Band & Buckle System - Banding

#### FEATURES

- Stainless steel banding for use with buckles to enable securing and bundling around large cables and pipes
- Applications include insulation fixing, cable bundling and sign erection
- Band & buckle can be quickly formed around virtually any diameter
- Superior corrosion resistance
- Available in 201, 316 grade stainless steel & nylon 11 coated version



**Stainless Steel Banding for larger diameter cables and pipes**

Part number	Material	Size	Part number	Material	Size
<b>C202</b>	201 Grade S/S	30.5m x 6.35mm	<b>C405</b>	316 Grade S/S	30.5m x 15.88mm
<b>C203</b>	201 Grade S/S	30.5m x 9.53mm	<b>C406</b>	316 Grade S/S	30.5m x 19.05mm
<b>C204</b>	201 Grade S/S	30.5m x 12.70mm	<b>AE432</b>	PPA Coated 316 Grade S/S	25m x 6.35mm
<b>C205</b>	201 Grade S/S	30.5m x 15.88mm	<b>AE433</b>	PPA Coated 316 Grade S/S	25m x 9.53mm
<b>C206</b>	201 Grade S/S	30.5m x 19.05mm	<b>AE434</b>	PPA Coated 316 Grade S/S	25m x 12.70mm
<b>C403</b>	316 Grade S/S	30.5m x 9.53mm	<b>AE435</b>	PPA Coated 316 Grade S/S	25m x 15.88mm
<b>C404</b>	316 Grade S/S	30.5m x 12.70mm	<b>AE436</b>	PPA Coated 316 Grade S/S	25m x 19.05mm

### Band & Buckle System - Buckles

#### FEATURES

- Stainless steel buckles for use with banding to enable securing and bundling around large cables and pipes
- Superior corrosion resistance
- Available in 201 and 316 grade stainless steel



**Stainless steel buckles for the fixing of banding to larger cables and pipes**

Part number	Material	Size mm	Pack Quantity	Part number	Material	Size mm	Pack Quantity
<b>C252</b>	201 Grade S/S	6.35	100	<b>C455</b>	316 Grade S/S	15.88	100
<b>C253</b>	201 Grade S/S	9.53	100	<b>C456</b>	316 Grade S/S	19.05	100
<b>C254</b>	201 Grade S/S	12.70	100	<b>AE452</b>	316 Grade S/S	6.35	100
<b>C255</b>	201 Grade S/S	15.88	100	<b>AE453</b>	316 Grade S/S	9.53	100
<b>C256</b>	201 Grade S/S	19.05	100	<b>AE454</b>	316 Grade S/S	12.70	100
<b>C453</b>	316 Grade S/S	9.53	100	<b>AE455</b>	316 Grade S/S	15.88	100
<b>C454</b>	316 Grade S/S	12.70	100	<b>AE456</b>	316 Grade S/S	19.05	100

## All Round Band



### Multi purpose all round band

#### FEATURES

- All Round Band is an all purpose fixing system suitable for hostile environments
- Easy to form around any section
- Available in galvanised steel, stainless steel uncoated and in PPA coated versions
- Available in 3 widths (12mm, 17mm & 26mm)

Part number	Material	Colour	Size
AE505	Galvanised Steel Uncoated	Metallic	10m x 12mm
AE506	Galvanised Steel Uncoated	Metallic	10m x 17mm
AE507	Galvanised Steel Uncoated	Metallic	10m x 26mm
AE565	PPA Coated Galvanised Steel	Black	10m x 12mm
AE566	PPA Coated Galvanised Steel	Black	10m x 17mm
AE567	PPA Coated Galvanised Steel	Black	10m x 26mm
AE405	Stainless Steel Uncoated	Metallic	10m x 12mm
AE406	Stainless Steel Uncoated	Metallic	10m x 17mm
AE407	Stainless Steel Uncoated	Metallic	10m x 26mm
AE465	Stainless Steel Coated	Black	10m x 12mm
AE466	Stainless Steel Coated	Black	10m x 17mm

Part number	Material	Colour	Size
AE467	Stainless Steel Coated	Black	10m x 26mm
AE575	PPA Coated Galvanised Steel	Black	25m x 12mm
AE576	PPA Coated Galvanised Steel	Black	25m x 17mm
AE577	PPA Coated Galvanised Steel	Black	25m x 26mm
AE425	Stainless Steel Uncoated	Metallic	25m x 12mm
AE426	Stainless Steel Uncoated	Metallic	25m x 17mm
AE427	Stainless Steel Uncoated	Metallic	25m x 26mm
AE475	Stainless Steel Coated	Black	25m x 12mm
AE476	Stainless Steel Coated	Black	25m x 17mm
AE477	Stainless Steel Coated	Black	25m x 26mm

## Cable Sheath Protector



### ZHCP Cable sheath protector for use with metal cable ties

#### FEATURES

- Cable sheath protector is designed to fit underneath the metal cable ties to protect the sheath of the cable
- Suitable for low and high temperature environments
- Fire Tested (Def standard 07-247)
- Low smoke and fume product
- Available in five sizes

Part number	Material	Colour	Size
ZHCP-NR-1-0	Nylon 6.6	Black	16mm
ZHCP-NR-2-0	Nylon 6.6	Black	10mm
ZHCP-NR-3-0	Nylon 6.6	Black	6mm

Part number	Material	Colour	Size
ZHCP-NR-4-0	Nylon 6.6	Black	5mm
ZHCP-NR-6-0	Nylon 6.6	Black	13mm

## Easy Read System

### FEATURES

- Designed to provide a marking system in hazardous area environments
- Used with stainless steel cable tie range
- A complete range of letters, numbers and symbols
- Fits on to easy strips and carriers or directly on to cable ties
- Fasten strips and carriers to pipe and cable with cable ties
- Easy to read in dim light
- Made from 316 Stainless Steel



Easy read stainless steel marking system

## Characters

Part number	Description	Pack Quantity
AE010*	LETTERS A-Z (Add suffix * when ordering)	100
AE018*	NUMBERS 1-10 (Add suffix * when ordering)	100
AE035	EASY MINUS/HYPHEN -	100
AE036	EASY BLANK	100
AE046	EASY PLUS +	100
AE047	EASY EARTH +	100
AE048	EASY SINE ~	100
AE049	EASY SLASH/	100
AE053	ARROW	100



Easy read marking system characters

## Carrier Strips

Part number	Description	Size mm	Pack Quantity
AE043	EASY CARRIER 6	9.53 x 92.5	100
AE044	EASY CARRIER10	9.53 x 130.6	100
AE045	EASY CARRIER16	9.53 x 187.7	100
AE050	EASY STRIP Short	9.53 x 108	100
AE051	EASY STRIP Medium	9.53 x 146	100
AE052	EASY STRIP Long	9.53 x 203.2	100



Easy read marking system carrier strips

## Easy Read Kit

Part number	Description	Size mm	Pack Quantity
AE060	EASY READ Kit - Contains 50 of each character/ carrier/strip	1	100



Easy read kit

**Straight Cut Wire Markers**



**Z Type wire markers for cable diameters from 1.7 - 16mm**

**FEATURES**

- Straight Cut Wire Markers for cable identification and marking on small diameter cables
- Chevron design to interlock when fitted
- Available in various colours
- Standard figures available = A-Z, 0-9, +,-,/, earth & blank
- Add character suffix to part no when ordering item
- Operating Temperature -30°C to +70°C
- Flammability Rating UL94-V2

Part number	Conductor CSA	Conductor Diameter	Pack Quantity	Size mm
PZ02	0.5-0.75mm <sup>2</sup>	1.7 - 2.8mm	1000	3
PZ1	0.75-4.0mm <sup>2</sup>	2.5 - 5mm	1000	3
PZ2	2.5-16mm <sup>2</sup>	4.0 - 10mm	250/500	4
PZ3	16-70mm <sup>2</sup>	8.0-16mm	100	5

**Oval Cut Wire Markers**



**K Type wire markers for use with carrier strips**

**FEATURES**

- Oval Wire Markers for cable identification and marking of larger diameter cables and pipes when used on carrier strips
- Oval design to interlock when fitted.
- Available in yellow PVC with black figures
- Standard figures available = A-Z, 0-9, +,-,/, earth & blank
- Add character suffix to part no when ordering item
- Operating Temperature -30°C to +70°C
- Flammability Rating UL94-V2

Part number	Conductor CSA	Conductor Diameter	Pack Quantity	Size mm
POK10	40-100mm <sup>2</sup>	up to 7.0mm	500	6

**Carrier Strips**



**Standard & Multipurpose carrier strips for larger cables**

**FEATURES**

- Designed for use with K range of markers
- Standard and multipurpose carrier strips designed to be attached parallel to larger diameter cables or installed directly onto the cable secured with a cable tie
- Available in black PVC
- Operating Temperature -30°C to +70°C
- Flammability Rating UL94-V2

Part number	Description	PackQuantity
POH7	7 digit carrier strip	100
POH12	12 digit carrier strip	100
POH18	18 digit carrier strip	100

Part number	Description	PackQuantity
POH30	30 digit carrier strip	100
PKH70	10 digit carrier strip	100
PKH110	20 digit carrier strip	100



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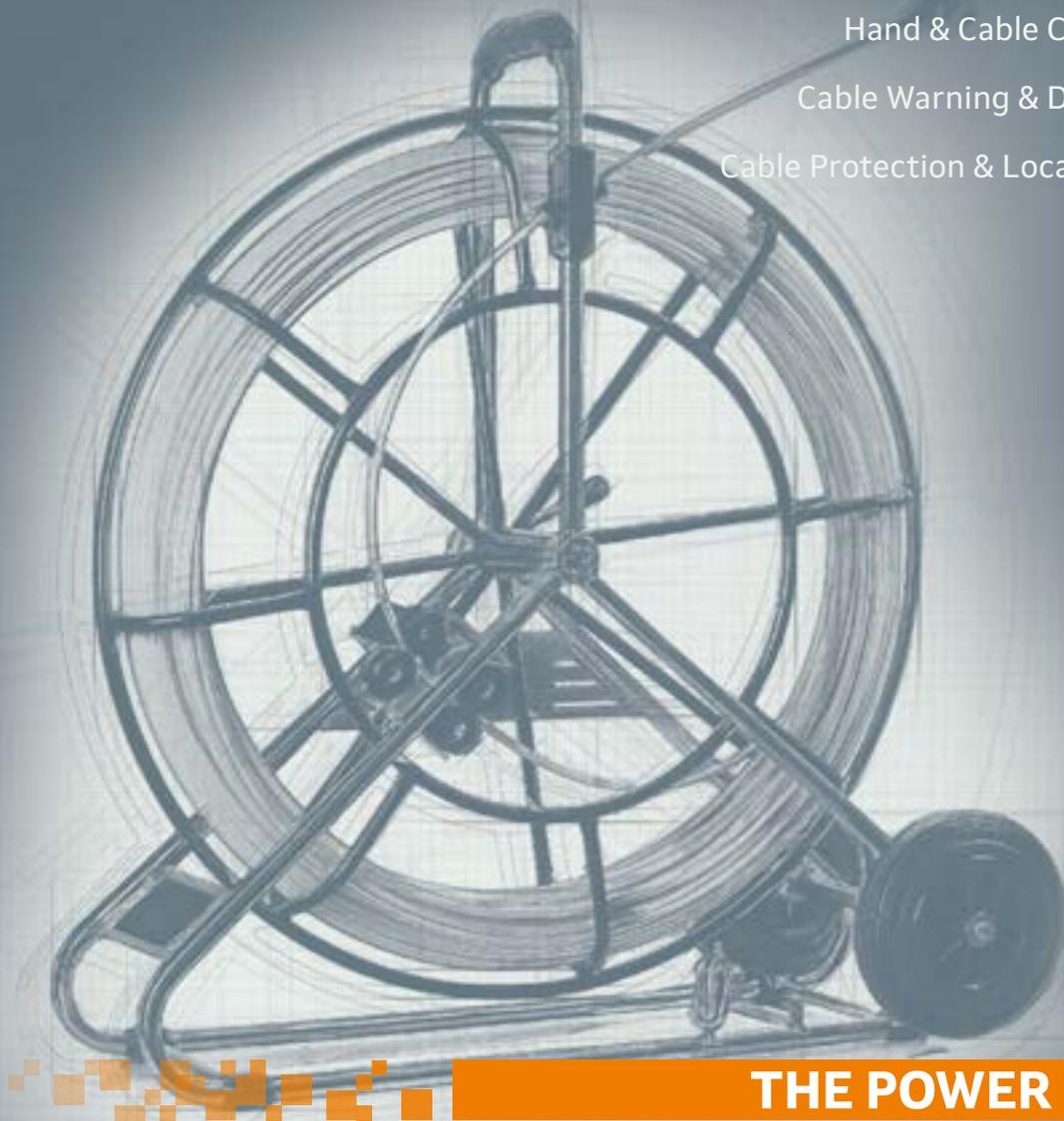
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**THE POWER TO DELIVER**

# Cable Pulling Equipment

## Contents

Cable Pulling Equipment	<b>68</b>
Cable Pulling Lubricants	<b>71</b>
Hand & Cable Cleaning Wipes	<b>72</b>
Cable Warning & Detection Tape	<b>73</b>
Cable Protection & Location Products	<b>74</b>



## Cable Rollers

### FEATURES

- For cable pulling
- Corner rollers also available
- Lightweight roller for easy transportation
- Zinc plated heavy duty assembly
- Steel frame with steel roller on sealed ball bearings



To aid cable installation

Part number	Weight	Range
<b>TRN76</b>	2.75 kg	Max 76mm cable diameter

Part number	Weight	Range
<b>TR5</b>	4 kg	Max 125mm cable diameter

## Cable Screw Jacks

### FEATURES

- Easy to handle and simple operation
- Base plate designed to give stability even on soft ground
- Locking collars can be ordered on request
- Versatile and easily adjustable
- Robustly engineered for regular use



For supporting cable drums

Part number	Size	Max Drum Diameter	Spindle Diameter	Detail
<b>3 TON JACK</b>	Base area - 1830 x 285mm	1600mm	-	-
<b>6 TON JACK</b>	Base area - 1830 x 760mm	1900mm	-	-
<b>8 TON JACK</b>	Base area - 2000 x 800mm	2200mm	-	-
<b>4FT 6 TON</b>	1219mm long	-	50mm	Suitable for use with the three ton jacks
<b>6FT 6 TON</b>	1800mm long	-	50mm	Suitable for use with the six ton jacks
<b>7FT 8 TON</b>	2100mm long	-	50mm	Suitable for use with the eight ton jacks

## Cable Drum Rotator

### FEATURES

- Cable drums rotators are used for unreeling cable from a cable drum
- Both made from pressed/rolled steel construction
- Zinc plated or painted finish



Part number	Drum Sizes			Max Drum Weight
	Width	Max	Min	
<b>DR2</b>	<b>700mm</b>	1200mm	300mm	750kg

Part number	Drum Sizes			Max Drum Weight
	Width	Max	Min	
<b>DR3</b>	<b>Infinite</b>	2200	300	1500kg

**Cable Stockings - Double Eye**



**For cable pulling**

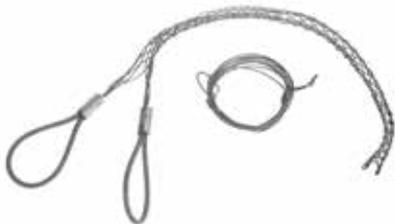
**FEATURES**

- Material - high tensile galvanised steel wire
- Special cable stockings also available
- The stocking is connected at the end of the cable and can be used for cable pulling or supporting
- Also available in stainless steel wire or Kevlar
- Ideal method for supporting cables prior to cleating

Part number	Actual Break Tonne Size	Cable Diameter
<b>CS21</b>	0.75	6-13mm
<b>CS22</b>	1.00	13-19mm
<b>CS23</b>	2.50	19-25mm
<b>CS24</b>	3.50	25-38mm
<b>CS25</b>	5.00	38-50mm

Part number	Actual Break Tonne Size	Cable Diameter
<b>CS26</b>	5.00	50-63mm
<b>CS27</b>	6.00	63-89mm
<b>CS28</b>	7.00	89-115mm
<b>CS29</b>	7.00	115-130mm

**Split Cable Stockings - Double Eye**



**For cable pulling**

**FEATURES**

- Material - high tensile galvanised steel wire
- Special cable stockings also available
- The unique split / tie feature allows the stocking to be connected at any point along the cable for cable pulling or supporting
- Also available in stainless steel wire or Kevlar
- Ideal method for supporting cables prior to cleating

Part number	Actual Break Tonne Size	Cable Diameter
<b>CS31</b>	0.75	6-13mm
<b>CS32</b>	1.00	13-19mm
<b>CS33</b>	2.50	19-25mm
<b>CS34</b>	3.50	25-38mm
<b>CS35</b>	5.00	38-50mm

Part number	Actual Break Tonne Size	Cable Diameter
<b>CS36</b>	5.00	50-63mm
<b>CS37</b>	6.00	63-89mm
<b>CS38</b>	7.00	89-115mm
<b>CS39</b>	7.00	115-130mm

**Triplex Cable Stocking - Double Eye**



**For cable pulling**

**FEATURES**

- Material - high tensile galvanized steel wire.
- Also available in stainless steel or kevlar.
- Ideal method for supporting cables prior to cleating

Part number	Actual Break Tonne Size	Cable Diameter
<b>CST14</b>	3.5	25-38mm
<b>CST15</b>	5.0	38-50mm

Part number	Actual Break Tonne Size	Cable Diameter
<b>CST16</b>	6.0	50-63mm

## Fibre Glass Rodding System

### FEATURES

- Cobra Rods gives a compact and labour saving solution whether installing cables in ducts, threading rope or surveying drains with a CCTV cameras.
- Reliable and manufactured from the highest quality fibreglass radially reinforced construction available in a choice of diameters
- All rods are mounted on rugged and robust zinc plated steel frames
- Available in different lengths and rod diameters



Part number	Rod Diameter	Available in Length (m)
CR04.5-***	4.5mm	40/60/80/100
CR06-***	6.0mm	60/80/100/150
CR09-***	9.0mm	60/80/100/120/150

Part number	Rod Diameter	Available in Length (m)
CR011-***	11.0mm	100/120/150/200/250/300
<b>Part number to be completed with length needed EG. CR04.5-060 (60m Length)</b>		

## Swivel Links

### FEATURES

- Swivel links facilitates a flexible rotational connection between the winch bond and the cable protecting the cable whilst allowing the bond to naturally rotate
- All swivels have a safety factor of 3:1
- Special swivel links are available up to 80 tonnes breaking strain on request



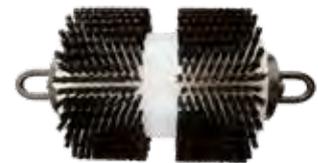
Part number	SWL (kg)	Diameter	Length
SL3	3000	32mm	140mm
SL5	5000	38mm	152mm

Part number	SWL (kg)	Diameter	Length
SL7	7000	42mm	160mm

## Duct Brushes

### FEATURES

- Designed to clear debris/corrosion from ducting before cable is installed to prevent blockage or potential damage to cable.
- Other materials available such as foam pigs, duct proving mandrels. Please contact your nearest sales office for more information



Part number	Duct Diameter (mm)	Brush Material	Duct Materials
CBD-***	57/80/86/95/108/150/200	Fibre Wires/ Nylon Core	Plastic
WPB-***	80/100/125/150/200/250	Steel Core and Wires	Steel/ Ceramic

Part number	Duct Diameter (mm)	Brush Material	Duct Materials
<b>Part number to be completed with duct diameter (e.g. WDB-057 brush for plastic pipe with 57mm I/D)</b>			

## Bellmouth

### FEATURES

- Steel hinged bellmouths are inserted into ducts and secured in position with an expansion bolt.
- Bellmouths minimises damage to the cable and the edge of the duct during cable installation
- Standard sizes are below, all sizes are available with a guide roller fitted, simply add an "R" after the code



Part number		Duct Size Range
Without roller	With roller	
SB1	SB1-R	55-63
SB2	SB2-R	76-82
SB3	SB3-R	86-95
SB4	SB4-R	97-104

Part number		Duct Size Range
Without roller	With roller	
SB5	SB5-R	115-124
SB6	SB6-R	146-155
SB7	SB7-R	170-185
SB8	SB8-R	198-220

**LUB-P Heavy Duty Pulling Lubricant**



**Heavy duty pulling lubricant**

**FEATURES**

- White translucent polymer gel which reduces friction making cable pulls easier and safer.
- Reduces the chance of cable sheath damage from high pulling forces
- Designed for heavy cables and difficult cable installations
- The low solids content means less conduit/duct blocking if additional pulls are required
- Compatible with common types of cable jacket materials
- Suitable for installations between temperatures -7 to +44°C

**Part number**

**Size**

**LUB-P**

18.9 litre bucket

**LUB-I Medium Duty Pulling Lubricant**



**Medium duty cable pulling lubricant**

**FEATURES**

- White translucent polymer gel which reduces friction making cable pulls easier and safer.
- Reduces the chance of cable sheath damage from high pulling forces
- Designed for medium/lighter weight cable installations
- The low solids content means less conduit/duct blocking if additional pulls are required
- Compatible with common types of cable jacket materials
- Suitable for installations between temperatures -5 to +45°C

**Part number**

**Size**

**LUB-I**

18.9 litre bucket

**Techlube Microsphere 20 Litre**



**Lubricants with microspheres for telecoms market**

**FEATURES**

- Specially designed lubricant with microspheres for telecoms industry
- Compatible with all forms of cable jackets
- Provides superior friction reduction between cable and all forms of conduit
- Biodegradable, non toxic, water based lubricant

**Part number**

**Size**

**TLM/20L**

20 litre bucket

### Solvent Cleaner

#### FEATURES FOR 1PF

- 1PF high performance residue free solvent cleaner and degreaser for cable cleaning prior to jointing and maintenance
- Residue free cleaning ensures no earth tracking or local hot spots
- High voltage approved up to and including 440kV
- Trigger sprays available to accompany 1 litre bottles
- Designed to IEEE recommendations

#### FEATURES FOR PFQD

- HYSO-QD fast evaporating, odourless solvent that provides zero residue cleaning for maintenance application
- Recommended for switchgear cleaning and maintenance
- Compatible with resin, plastics and elastomeric rubbers
- High strength low lint wipe
- Trigger sprays available to accompany 1 litre bottles



Solvent cleaner

Part number	Size
1PF	1 litre

Part number	Size
PFQD	1 litre

### Cable Cleaning Wipes

#### FEATURES

- It is a full strength solvent degreaser for cable cleaning prior to the jointing, terminating and kitting of cables
- Non-conductive, non-corrosive and non-staining
- Suitable for use on low, medium and high voltage applications
- Good general solvency power
- Contains no CFCs, HCFCs or hazardous solvents
- Residue free cleaning ensures no earth or local hot spots



PF solvent degreaser for cable cleaning

Part number	Size
JT250	250 wipes

### Bitumen Remover Wipes

#### FEATURES

- Solvent impregnated extra large wipes specifically designed for powerful and efficient bitumen removal during electrical operations
- Use for cable cleaning prior to jointing and maintenance of cables, switchgear and network equipment
- Suitable for use on static and live cable; low, medium and high voltage applications
- Remove oils, soils, tar and bitumen residues



PF-BR Bitumen remover wipes

Part number	Size
P20301-L021-1-1	150 wipes

### Underground Warning Tape



#### Low cost cable warning system

##### FEATURES

- Economical way of warning excavators of buried cables
- Supplied in standard black on yellow for maximum visibility
- Also available in other colours
- Can be manufactured with specific text
- Each roll covers 365m
- Soil tolerance pH2.5 to pH11.0 inclusive
- Material: low density Polyethylene

Part number	Size	Detail	Description
TAPECAUTION	150mm x 0.05mm x 365m	"Caution Electrical Cable Below"	Black on Yellow
CAUTIONPREMIUM	150mm x 0.1mm x 365m	"Electrical Cable Below"	Black on Yellow

### Underground Warning & Location Tape



#### Detectamesh - Cable protection and location system

##### FEATURES

- Suitable for use with cable and pipe locators and cable avoidance tools (CAT & GENNY)
- Manufactured from high strength rot resistant homopolymer polypropylene plastic with a traceable stainless steel wire
- Other colours and texts available to order
- Printed with "Caution buried cable below" text - black on yellow
- Each roll covers over 100m
- Manufactured to BS EN 12613:2001
- Can be manufactured with specific text

Part number	Size	Detail	Description
DETECTAMESH	200mm x 1mm x 100m	"Caution Buried Cable Below"	Black on yellow

### Underground Warning Tape: Fibre Optic



#### Wavelay - Cable protection and location system

##### FEATURES

- Printed with "Caution Fibre Optic Cables" text - black on green
- Each roll covers over 365m
- Tensile strength 680 N/mm<sup>2</sup>
- Can be manufactured with specific text
- Economical way of warning excavators of buried cables

Part number	Size	Detail
WAVELAY	150mm x 365m	"Caution Fibre Optic Cable Below"

### Cable Protection - Tape Tile

#### FEATURES

- Provides clear warning to third parties
- Damages to cables less likely, therefore reducing cable repair costs and supply disruption
- Rot proof and resistant to wide range of soil conditions
- Approved by utilities worldwide
- Complies with enats 12-23



**Flexible high impact polyethylene tile**

Part number	Size	Detail	Description
<b>CENTRITILE 150</b>	2.5mm x 150mm x 40m	"Caution Electric Cable Below"	Red brown background with yellow tape and black lettering
<b>CENTRITILE 200</b>	2.5mm x 200mm x 40m	"Caution Electric Cable Below"	Red brown background with yellow tape and black lettering

### Cable Protection Covers

#### FEATURES

- Provides clear warning to third parties
- Lightweight and easy to install
- Damages to cables less likely, therefore reducing cable repair costs and supply disruption
- Rot proof and resistant to wide range of soil conditions
- Can be manufactured to suit application size and text
- Approved by utilities worldwide
- Meets impact requirement of BS 2484
- Utility specific tiles available on request



**High level cable protection**

Part number	Size	Detail	Description
<b>TILE 152-6</b>	6mm x 152mm x 1m	"Caution Electric Cable Below"	Red background with yellow tape and black lettering
<b>TILE 152-12</b>	12mm x 152mm x 1m	"Caution Electric Cable Below"	Red background with yellow tape and black lettering
<b>TILE 244-12</b>	12mm x 244mm x 1m	"Caution Electric Cable Below"	Red background with yellow tape and black lettering
<b>TILE 300-12</b>	12mm x 300mm x 1m	"Caution Electric Cable Below"	Red background with yellow tape and black lettering

## Jointing Tech | Breakdown Service



Problems don't always occur during normal working hours – Jointing Tech offer a 24 hour emergency breakdown service.



**We're here when you need us the most.**

Breakdown service is chargeable – contact Jointing Tech for more information



# Jointing Tech

## Renewables | Working with nature to supply your power

**Jointing Tech is a specialist electrical distributor supplying a full range of power cable and accessories into the renewable energy sector.**

**The Jointing Tech range includes:**

- Distribution Transformers
- Switchgear
- Earthing (inc HDC Cable)
- MV Joints
- MV Terminations
- MV Power Cable
- Earthing Design
- Installation
- Lugs & Connectors
- Tool hire & Sales

We are all working to reduce our carbon footprint to make our environment as green as possible. Jointing Tech are leading the way to help you achieve this.

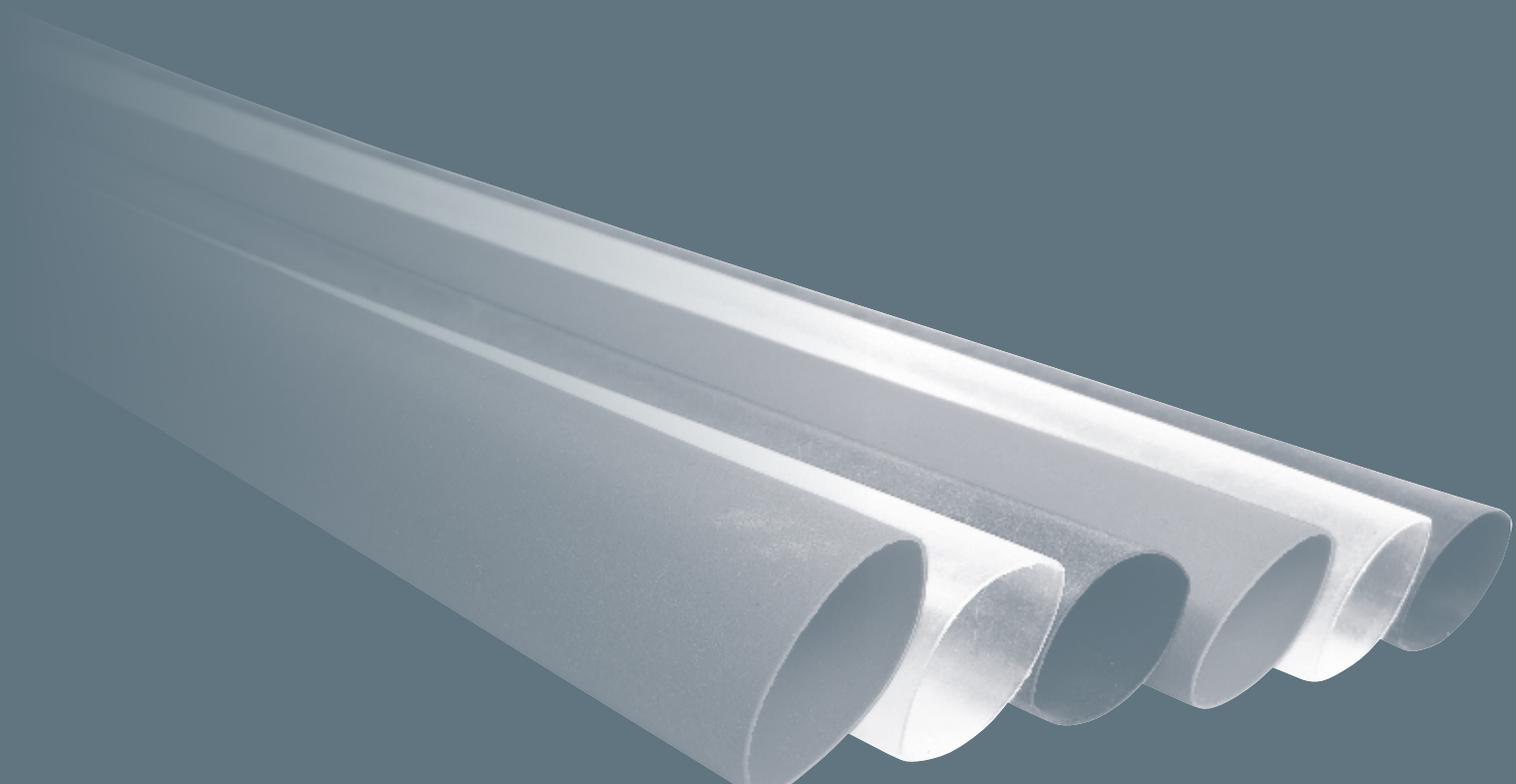
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**THE POWER TO DELIVER**

# Insulation Products

## Contents

LV Heat Shrink Products	<b>78</b>
LV Cold Shrink Products	<b>81</b>
MV Heat Shrink Products	<b>83</b>



## Thin Wall Heat Shrink Tubing

### FEATURES

- Single wall heat shrink tubing is designed for phase marking, bundling, strain relief and electrical insulation
- Flame retardant and abrasion resistance
- Flexible rapid shrinkage with 2:1 shrink ratio
- UV stabilised
- Other colours available on request (MOQ may apply)
- 1000V rated
- Shrinking temperature > 110°C



**Heat Shrinkable thin wall insulating tubing**

Part number	Spool Length	Application Range
HT6.4-3.2	100m	6-3mm
HT9.5-4.8	100m	10-5mm
HT12.7-6.4	100m	12.7-6.4mm
HT19-9.5	50m	19-10mm
HT25.4-12.7	50m	25-12.5mm

Part number	Spool Length	Application Range
HT38-19	50m	38-20mm
HT51-25.4	25m	50-25mm
HT76.2-38	25m	76-40mm
HT101-51	25m	100-50mm

## Medium Wall Heat Shrink Tubing

### FEATURES

- Cross linked polyolefin dual wall medium heat shrink tubing is designed for the cable jacketing, sealing and electrical insulation of LV power cables
- Halogen free and resistant to UV light
- Resistant to temperature changes and immune to oils and solvents
- Flexible rapid shrinkage with 3:1 shrink ratio
- Available in 1500mm length as standard
- Available in black only
- Available without internal tubing sealant on request
- 1000V rated
- Shrinking temperature > 110°C
- Tensile strength 14 MPa min
- Dielectric strength > 200kV/cm



**Heat Shrinkable medium wall insulating tubing**

Part number	Application Range	Length
MWTM10/3	9-3.5mm	1500mm
MWTM16/5	14-5.5mm	1500mm
MWTM25/8	22-9mm	1500mm
MWTM35/12	32-13mm	1500mm
MWTM50/16	45-17mm	1500mm
MWTM63/19	57-21mm	1500mm
MWTM75/22	68-24mm	1500mm

Part number	Application Range	Length
MWTM85/25	76-27mm	1500mm
MWTM95/29	85-31mm	1500mm
MWTM115/34	100-36mm	1500mm
MWTM140/42	125-44mm	1500mm
MWTM160/50	145-52mm	1500mm
MWTM180/60	162-62mm	1500mm

**Thick Wall Heat Shrink Tubing**



**Heat Shrinkable thick wall insulating tubing**

**FEATURES**

- Cross linked polyolefin dual wall thick heat shrink tubing is designed for the cable jacketing, sealing and electrical insulation of LV power cables in underground applications
- The tubings inner co-extruded hot melt adhesive wall gives a dependable moisture seal over most irregular shapes
- Halogen free and resistant to UV light
- Resistant to temperature changes and immune to oils and solvents
- Its mechanical strength enables immediate backfilling of cable trenches after jointing
- Flexible rapid shrinkage with 3:1 shrink ratio
- Available in 1500mm length as standard
- Available in black only
- 1000V rated
- Shrinking temperature > 110C
- Tensile strength 12 MPa min
- Dielectric strength > 170kV/cm

Part number	Application Range	Length
<b>WCSM12/3</b>	10-3.5mm	1500mm
<b>WCSM16/4</b>	14-4.5mm	1500mm
<b>WCSM24/6</b>	22-6.5mm	1500mm
<b>WCSM34/8</b>	31-9.0mm	1500mm
<b>WCSM48/12</b>	44-13mm	1500mm
<b>WCSM56/16</b>	50-17.5mm	1500mm

Part number	Application Range	Length
<b>WCSM70/20</b>	63-22mm	1500mm
<b>WCSM90/25</b>	81-27mm	1500mm
<b>WCSM110/30</b>	100-33mm	1500mm
<b>WCSM130/35</b>	118-38mm	1500mm
<b>WCSM160/50</b>	144-55mm	1500mm
<b>WCSM180/50</b>	162-55mm	1500mm

**Heat Shrink Wraparound**



**Heat Shrinkable wraparound for cable repairs**

**FEATURES**

- Designed to be a fast and permanent cable repair and sealing system for insulation up to 1000V and jacketing applications up to 35kV
- Ideal for repairing long buried cable where it would be impossible to use a tube
- A moisture proof, insulating and tight-fitting repair is then obtained in one step by heating, which makes the sleeve diameter shrink and the adhesive coating melt and flow into the interstices
- Resistant to temperature changes and immune to oils and solvents
- Available in 1500mm lengths as standard and 250mm, 500mm, 750mm and 1000mm on request
- 1000V rated
- Shrinking temperature > 110°C
- Tensile strength 17 MPa min
- Dielectric strength > 180kV/cm

Part number	Application Range	Length
<b>CRSM34/10</b>	21.0-11.0mm	1500mm
<b>CRSM53/13</b>	32.0-17.0mm	1500mm
<b>CRSM84/20</b>	50.0-24.0mm	1500mm
<b>CRSM107/29</b>	65.0-31.0mm	1500mm

Part number	Application Range	Length
<b>CRSM143/36</b>	86.0-33.0mm	1500mm
<b>CRSM198/55</b>	120.0-56.0mm	1500mm
<b>CRSM250/98</b>	150.0-103.0mm	1500mm

## Heat Shrink Breakouts

### FEATURES

- These breakouts are designed for sealing of cable cores
- Coated with hot melt adhesive which seals on to the cable sheath and core insulation
- Resistant to temperature changes and immune to oils and solvents
- Halogen free and resistant to UV light
- Available in two and three core version on request
- 1000V rated
- Shrinking temperature 110°C
- Dielectric strength 100kV/cm



**4 Core Heat Shrink cable breakouts for power cables**

Part number	Application Range
<b>4CB6-50</b>	35.0-6.0mm <sup>2</sup>
<b>4CB35-70</b>	70.0-35.0mm <sup>2</sup>

Part number	Application Range
<b>4CB50-150</b>	150.0-70.0mm <sup>2</sup>
<b>4CB185-300</b>	300.0-185.0mm <sup>2</sup>

## Heat Shrink Cable End Caps

### FEATURES

- Cross linked medium wall heat shrink end caps are designed for sealing of cable ends
- Coated with a hot melt adhesive which seals on to the cable sheath
- Resistant to temperature changes and immune to oils and solvents
- Halogen free and resistant to UV light
- 1000V rated
- Shrinking temperature 110°C
- Dielectric strength 100kV/cm



**Heat Shrink end caps for power cables**

Part number	Application Range
<b>EC4-9</b>	9.0-4.0mm
<b>EC8-18</b>	18.0-8.0mm
<b>EC18-36</b>	36.0-18.0mm
<b>EC28-50</b>	50.0-28.0mm

Part number	Application Range
<b>EC38-70</b>	70.0-38.0mm
<b>EC55-95</b>	95.0-55.0mm
<b>EC70-110</b>	110.0-70.0mm

## Heat Shrink Earthing End Caps

### FEATURES

- Used to earth a newly installed cable in case a cable is inadvertently made live
- Includes a green sleeve to indicate earthing cap
- Caps are adhesive lined to prevent water ingress
- Can be used on LV and 11kV cables
- Kit consists of Heat Shrink end cap, earth braid, green heat shrink sleeve and nails



Part number	Cable Type	Application Range
<b>CSD01</b>	LV	15-30mm
<b>CSD02</b>	LV	25-50mm
<b>CSD03</b>	LV	45-95mm

Part number	Cable Type	Application Range
<b>CSD04</b>	95mm <sup>2</sup> Triplex 11kV (set of 3)	-
<b>CSD05</b>	185-300mm <sup>2</sup> Triplex 11kV (set of 3)	-

**Cold Shrink Tubes - Network Rail Approved**



**Cold Shrink tubes - Network Rail Approved**

**FEATURES**

- Approved by Network Rail for terminal insulation and inline joints for track feeder applications
- Improved tough rubber which is suitable for direct burial applications
- Simple installation no external heat source required
- Good thermal stability
- Excellent sealing properties; retaining its resiliency and pressure after prolonged ageing
- Waterproof and resists mould
- Resistant to ozone and UV light
- Resistant to acids and alkali
- Meets worldwide standards ANSI, IEEE, VDE, JCAA, REA & CSA.
- Rated up to 1000V for cable insulation
- Network Rail approved

Part number	Min Cable Size	Max Cable Size	Length
<b>LO41</b>	240mm <sup>2</sup>	1000mm <sup>2</sup>	228mm
<b>LO42</b>	150mm <sup>2</sup>	240mm <sup>2</sup>	191mm

Part number	Min Cable Size	Max Cable Size	Length
<b>LA11</b>	380mm <sup>2</sup>	1000mm <sup>2</sup>	457mm

**Cold Shrink Tubes - EPDM Rubber**



**Cold Shrink tubes in EPDM rubber for LV power cables**

**FEATURES**

- Designed for the sealing and electrical insulation of LV power cables
- Improved tough rubber which is suitable for direct burial applications
- Simple installation no external heat source required
- Good thermal stability
- Excellent sealing properties; retaining its resiliency and pressure after prolonged ageing
- Waterproof and resists mould
- Resistant to ozone and UV light
- Resistant to acids and alkalis
- Meets worldwide standards ANSI, IEEE, VDE, JCAA, REA & CSA.
- Rated up to 1000V for cable insulation

Part number	Diameter Range	Length
<b>8423-6</b>	14.3-7.8mm	152mm
<b>8425-8</b>	20.8-10.2mm	203mm
<b>8426-9</b>	25.4-13.0mm	229mm
<b>8426-11</b>	25.4-13.0mm	279mm
<b>8427-6</b>	33.0-17.5mm	152mm
<b>8427-12</b>	33.0-17.5mm	305mm
<b>8427-16</b>	33.0-17.5mm	406mm
<b>8428-6</b>	49.3-24.0mm	152mm

Part number	Diameter Range	Length
<b>8428-12</b>	49.3-24.0mm	305mm
<b>8428-18</b>	49.3-24.0mm	609mm
<b>8429-6</b>	67.8-32.2mm	152mm
<b>8429-9</b>	67.8-32.2mm	229mm
<b>8429-12</b>	67.8-32.2mm	305mm
<b>8429-18</b>	67.8-32.2mm	457mm
<b>8430-9</b>	93.7-42.6mm	229mm
<b>8430-18</b>	93.7-42.6mm	457mm

**Cold Shrink End Caps**

**FEATURES**

- Designed for the sealing and electrical insulation of cable ends
- Suitable for direct burial applications
- Simple installation no external heat source required
- Good thermal stability
- Excellent sealing properties; retaining its resiliency and pressure after prolonged ageing
- Waterproof and resists mould
- Resistant to ozone and UV light
- Resistant to acids and alkalis
- Accommodates size ranges from 11.6-84.3mm
- Once installed can be removed easily by simply lifting the edge of the end cap and slice with a utility knife leaving no adhesive residue or grease
- Meets worldwide standards ANSI, IEEE, VDE, JCAA, REA & CSA
- Rated up to 1000V for cable insulation
- PADS approved



**Cold Shrink end caps for LV power cables**

Part number	Diameter Range
EC-1	20.9-11.6mm
EC-2	30.1-15.9mm

Part number	Diameter Range
EC-3	49.2-26.0mm
EC-4	84.3-45.5mm

**Cold Shrink Abandonment Kits**

**FEATURES**

- A complete kit to abandon LV cable either temporarily or permanently
- Improved tough rubber which is suitable for direct burial applications
- Simple installation no external heat source required
- For use with single and multicore LV power cables up to and including 3.3kV
- Will accommodate lead sheath/corrugated aluminium sheath
- No special tools required
- Environmental sealing and mechanical protection is provided using cold shrink technology
- No need to heat making the installation quick, simple and reliable
- Suitable for ship wiring and offshore cables
- Kit includes: cold shrink end cap and tube, armour continuity and tapes
- Tested up to 3.3kV



**Cold Shrink abandonment kits for LV power cables**

Part number	Diameter Range
CSCAK/1	18.0-12.0mm
CSCAK/2	25.0-18.0mm
CSCAK/3	42.0-25.0mm

Part number	Diameter Range
CSCAK/4	55.0-42.0mm
CSCAK/5	81.0-56.0mm

**Medium Voltage Busbar Tape**



**Medium voltage busbar insulation tape**

**FEATURES**

- HVBT tape is an adhesive-coated, high-voltage, heat shrinkable general purpose tape for insulating straight and bent bars in retrofit applications where tubing cannot be used
- Compatible with all other products in the Raychem MV insulation enhancement system
- Flashover protection to 15kV increasing to 25kV with second layer
- Easy to apply using readily available equipment
- Suitable for both indoor and outdoor use
- Tested to ASTM D149, IEC 243, ISO 188, ASTM D2671, ASTM D257, IEC 93 and VDE 0370

Part number	Width	Length per Roll
<b>HVBT-12-A</b>	25mm	10m
<b>HVBT-14-A</b>	50mm	10m

Part number	Width	Length per Roll
<b>HVBT-15-A</b>	75mm	10m
<b>HVBT-16-A</b>	100mm	10m

**Medium Voltage Busbar Insulation Sheet**



**Adhesive coated heat shrinkable sheet**

**FEATURES**

- HVIS sheet is a biaxially expanded medium voltage material designed to provide high performance insulation for complex geometries
- Easy to install on site using gas torch or hot air device
- Excellent UV and weather resistant properties
- Suitable for both indoor and outdoor use
- Tested to ANSI C37.20c1976 for 15kV class equipment and IEC 298 for 36kV class equipment

Part number	Description	Sheet Size
<b>HVIS-05</b>	-	0.5m x 660mm (3 per kit)
<b>HVIS-10</b>	-	10.0m x 660mm

Part number	Description	Sheet Size
<b>HVIS-TOOLS-01</b>	Installation Clamp Kit	-
<b>S1061-8-300</b>	Filler Mastic	-

**Insulation Sheet Details**

Busbar	Rated Voltage (kV)	Phase to Phase (mm)	Phase to Ground (mm)	IEC 71-2 air clearance (mm)
Round	12	55	65	120
	17.5	70	85	160
	24	95	125	220
	36	150	205	320
Rectangle	12	65	75	120
	17.5	85	104	160
	24	115	150	220
	36	200	285	320

**Medium Voltage Heat Shrink Busbar Tubing for installations up to 24kV**

**FEATURES**

- BPTM tubing for use on straight or bent bars where some clearance reduction or 24 kV insulation is required
- Compatible with all other products in Raychem MV insulation enhancement system
- Flame retardant and halogen free
- Excellent flexibility can be installed on a wide range of curved or bent busbars without cracking
- Exceptional insulation and long term reliability even at continuous operating temperatures
- Tested to IEC 216, ASTM D2671, IEC112, VDE 0303/1 & IEC 243



**Heat Shrinkable busbar insulation tubing**

Part number	Shrink Range	Spool Length
<b>BPTM15/6-A/U</b>	15-6mm	30m
<b>BPTM30/12-A/U</b>	30-12mm	30m
<b>BPTM50/20-A/U</b>	50-20mm	30m
<b>BPTM75/30-A/U</b>	75-30mm	20m

Part number	Shrink Range	Spool Length
<b>BPTM100/40-A/U</b>	100-40mm	25m
<b>BPTM120/50-A/U</b>	120-50mm	25m
<b>BPTM175/70-A/U</b>	175-70mm	15m

**Medium Voltage Heat Shrink Busbar Tubing for installations up to 33kV**

**FEATURES**

- BBIT tubing for use on straight or bent bars where some clearance reduction or 33kV insulation is required
- Excellent flexibility, can be installed on a wide range of curved or bent busbars without cracking or creasing
- Compatible with all other products in Raychem MV insulation enhancement system
- Flame retardant and halogen free
- Exceptional insulation and long term reliability even at continuous operating temperatures
- Tested to IEC 216, ASTM D2671, IEC112, VDE 0303/1 & IEC 243



**Heat Shrinkable busbar insulation tubing**

Part number	Application Range	Spool Length
<b>BBIT25/10-A/U</b>	25.0-10.0mm	25m
<b>BBIT40/16-A/U</b>	40.0-16.0mm	20m
<b>BBIT65/25-A/U</b>	65.0-25.0mm	15m

Part number	Application Range	Spool Length
<b>BBIT100/40-A/U</b>	100.0-40.0mm	15m
<b>BBIT150/60-A/U</b>	150.0-60.0mm	15m
<b>BBIT175/80-A/U</b>	175.0-80.0mm	10m

## Industrial Trace Heating

Raychem Trace Heating Providing Quality & Reliability



**Jointing Tech – Trace Heating Tech are market leaders in the Industrial Trace Heating environment. With more than 25 years' experience working on all types of projects large and small we have a unique understanding into the logistical and product considerations needed to deliver your Industrial Trace Heating project on time and on budget.**

As Raychem's largest distributor in the U.K we are able to design and supply premium products for your needs including a full range of hazardous area cables, connections and control systems.

**Applications within industrial sector based on design, supply, install and commissioning include:**

- Frost protection – protection for pipes against low temperature which helps prevent excessive damage from bursts/leaks
- Tank heating – tank heating systems are used specifically for freeze protection and for temperature maintenance with fluids in large storage tanks. The system's responsibility is to maintain the temperature of the fluid to ensure that it does not freeze, crystallise or condense (depending on the type of fluid that is being managed). Tank heating can also be used to heat fluids to certain temperatures.
- Process maintenance – we can work together on creating a system that will ensure fluids are kept at a certain temperature dependent on individual material needs or even over a broad range of temperatures (again dependent on fluid requirements).

- Design • Supply • Supply and install • On site training • Test/commissioning
- Pre-made kits with ongoing support through out the project programme.

Here at Jointing Tech – Trace Heating Tech we pride ourselves on being able to assist you with any project no matter what the size and industrial application – get in touch now for a free, no obligation quote from our industry leading experienced and knowledgeable staff.

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# LV Joints

## Contents

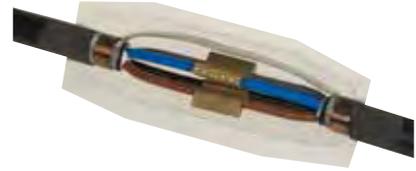
Resin Joints	<b>88</b>
Unarmoured, Pilot & Telecom Resin Joints	<b>92</b>
Heat Shrink Joints	<b>93</b>



**LV Inline Resin Joints - Armoured Cables**

**FEATURES**

- Designed to connect LV power cables inline by encapsulating in a resin filled shell
- Excellent mechanical protection
- Clear rigid joint shells to aid correct installation
- Large shell design allows the use of mechanical connectors
- Available with NEW REACH compliant HDI resin on request
- Kit comprises mould shell, 2 part polyurethane MDI resin, earth continuity kit, PVC tapes, gloves and crimp ferrules (on request)
- Mechanical connectors suitable for this range are available on page 26
- 1000V Rated
- Tested to BS EN 50393
- Tested to Engineering Standard C81

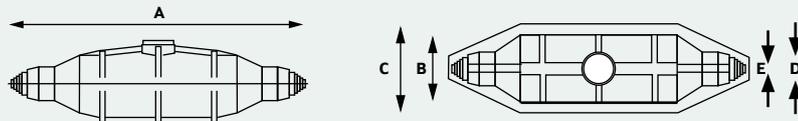


**Inline resin joints for LV armoured power cables**

Part number		Maximum Cable Size
MDI Resin	HDI Resin	
<b>TSJ-6</b>	<b>TSJ-6-HDI</b>	6mm <sup>2</sup> x 4 Core
<b>TSJ-16</b>	<b>TSJ-16-HDI</b>	16mm <sup>2</sup> x 4 Core
<b>TSJ-35</b>	<b>TSJ-35-HDI</b>	35mm <sup>2</sup> x 4 Core
<b>TSJ-70</b>	<b>TSJ-70-HDI</b>	70mm <sup>2</sup> x 4 Core

Part number		Maximum Cable Size
MDI Resin	HDI Resin	
<b>TSJ-120</b>	<b>TSJ-120-HDI</b>	120mm <sup>2</sup> x 4 Core
<b>TSJ-185</b>	<b>TSJ-185-HDI</b>	185mm <sup>2</sup> x 4 Core
<b>TSJ-300</b>	<b>TSJ-300-HDI</b>	300mm <sup>2</sup> x 4 Core

**Straight Joints Data**



Part Number	Dimensions mm				
	A	B	C	ØD	ØE
TSJ-6	275	50	85	21	9
TSJ-16	295	60	95	27	15
TSJ-35	330	80	115	33	21
TSJ-70	395	110	140	41	29
TSJ-120	575	120	150	57	39
TSJ-185	670	135	170	67	49
TSJ-300	870	160	195	77	59

**Straight Joints Selection Table**

Part Number	Cable conductor size mm <sup>2</sup>			Cable entry diameter mm	
	2-core	3-core	4-core	min	max
TSJ-6	1.5 - 10	1.5 - 10	1.5 - 6	9	21
TSJ-16	10 - 25	10 - 25	10 - 16	15	27
TSJ-35	35 - 50	35 - 50	25 - 35	21	33
TSJ-70	70 - 95	70 - 95	50 - 70	29	41
TSJ-120	120 - 150	120 - 150	95 - 120	39	57
TSJ-185	185 - 240	185 - 240	150 - 185	49	67
TSJ-300	300	300	240 - 300	59	77

Please contact your local sales office to join other cable variations

**LV Inline Resin Joints Plastic/Paper - Armoured Cables**



**Inline resin joints for LV armoured power cables**

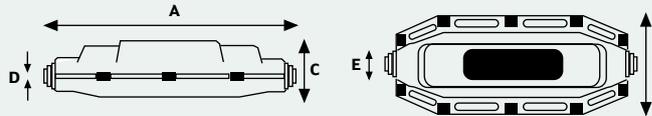
**FEATURES**

- Designed to connect LV power cables inline by encapsulating in a resin filled shell
- Excellent mechanical protection
- Large transparent, high impact resistant shells
- Large, extra wide shell design allows the use of mechanical connectors
- Clear resin bags to aid with mixing process
- All resin joints kit supplied with NEW REACH compliant JEM resin
- Kit comprises mould shell, JEM resin, earth continuity kit, PVC tapes, gloves and crimp ferrules (on request)
- Mechanical connectors suitable for this range are available on page 26
- 1000V Rated
- Tested to BS EN 50393
- Tested to Engineering Standard C81

Part number	Maximum Cable Size
<b>JST6</b>	6mm <sup>2</sup> x 4 Core
<b>JST16</b>	16mm <sup>2</sup> x 4 Core
<b>JST35</b>	35mm <sup>2</sup> x 4 Core
<b>JST95</b>	95mm <sup>2</sup> x 4 Core

Part number	Maximum Cable Size
<b>JST185</b>	185mm <sup>2</sup> x 4 Core
<b>JST300</b>	300mm <sup>2</sup> x 4 Core
<b>JST400</b>	400mm <sup>2</sup> x 4 Core

**Straight Joints Data**



Part Number	Dimensions mm				
	A	B	C	D	E
JST6	240	115	75	12	22
JST16	310	125	85	20	35
JST35	390	130	100	24	40
JST95	620	160	130	27	51
JST185	795	230	205	40	65
JST300	950	240	210	55	80
JST400	1100	275	260	56	92

**Straight Joints Selection Table**

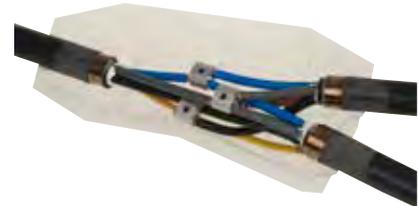
Part Number	Cable conductor size mm <sup>2</sup>			Cable entry diameter mm	
	2-core	3-core	4-core	Min	Max
JST6	1.5 - 10	1.5 - 6	1.5 - 6	12	22
JST16	16 - 25	10 - 25	10 - 16	20	35
JST35	35	35	25 - 35	24	40
JST95	50 - 95	50 - 95	50 - 95	27	51
JST185	120 - 185	120 - 185	120 - 185	40	65
JST300	240 - 300	240 - 300	240 - 300	55	80
JST400	400	400	400	56	92

Please contact your local sales office to join other cable variations

**LV Branch Resin Joints - Armoured Cables**

**FEATURES**

- Designed to connect LV power cables in branch formation by encapsulating in a resin filled shell
- Excellent mechanical protection
- Clear rigid joint shells to aid correct installation
- Large shell design allows the use of mechanical connectors
- Available with NEW REACH compliant HDI resin on request
- Kit comprises mould shell, 2 part polyurethane MDI resin, earth continuity kit, PVC tapes and gloves
- Mechanical connectors suitable for this range are available on page 26
- 1000V Rated
- Tested to BS EN 50393
- Tested to Engineering Standard C81

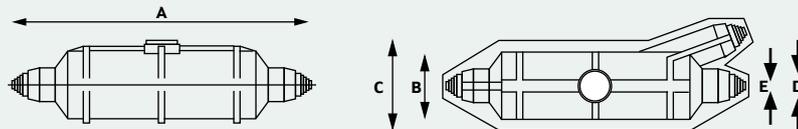


**Branch Resin joints for LV armoured power cables**

Part number		Maximum Cable Size
MDI Resin	HDI Resin	
<b>TBJ-6</b>	<b>TBJ-6-HDI</b>	6mm <sup>2</sup> x 4 Core
<b>TBJ-16</b>	<b>TBJ-16-HDI</b>	16mm <sup>2</sup> x 4 Core
<b>TBJ-35</b>	<b>TBJ-35-HDI</b>	35mm <sup>2</sup> x 4 Core
<b>TBJ-70</b>	<b>TBJ-70-HDI</b>	70mm <sup>2</sup> x 4 Core

Part number		Maximum Cable Size
MDI Resin	HDI Resin	
<b>TBJ-120</b>	<b>TBJ-120-HDI</b>	120mm <sup>2</sup> x 4 Core
<b>TBJ-185</b>	<b>TBJ-185-HDI</b>	185mm <sup>2</sup> x 4 Core
<b>TBJ-300</b>	<b>TBJ-300-HDI</b>	300mm <sup>2</sup> x 4 Core

**Branch Joints Data**



Part Number	Dimensions				
	A	B	C	ØD	ØE
TBJ-6	245	60	120	21	9
TBJ-16	315	75	140	27	15
TBJ-35	380	100	170	33	21
TBJ-70	470	120	185	41	29
TBJ-120	595	150	220	57	39
TBJ-185	690	180	240	67	49
TBJ-300	870	195	275	77	59

**Branch Joints Selection Table**

Part Number	Cable conductor size mm <sup>2</sup>			Cable entry diameter mm	
	2-core	3-core	4-core	min	max
TBJ-6	1.5 - 10	1.5 - 10	1.5 - 6	9	21
TBJ-16	10 - 25	10 - 25	10 - 16	15	27
TBJ-35	35 - 50	35 - 50	25 - 35	21	33
TBJ-70	70 - 95	70 - 95	50 - 70	29	41
TBJ-120	120 - 150	120 - 150	95 - 120	39	57
TBJ-185	185 - 240	185 - 240	150 - 185	49	67
TBJ-300	300	300	240 - 300	59	77

Please contact your local sales office to join other cable variations

**LV Branch Resin Joints Plastic/Paper - Armoured Cables**



**Branch Resin joints for LV armoured power cables**

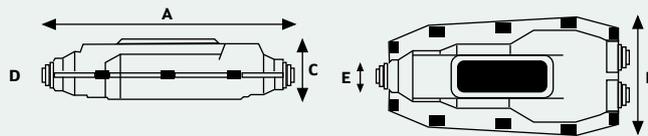
**FEATURES**

- Designed to connect LV power cables in branch formation by encapsulating in a resin filled shell
- Excellent mechanical protection
- Large transparent, high impact resistant shells
- Clear resin bags to aid with mixing process
- All resin joints kit supplied with NEW REACH compliant JEM resin
- Kit comprises mould shell, JEM resin, earth continuity kit, PVC tapes and gloves
- Mechanical connectors suitable for this range are available on page 26
- 1000V Rated
- Tested to BS EN 50393
- Tested to Engineering Standard C81

Part number	Maximum Cable Size
<b>JBR-6</b>	6mm <sup>2</sup> x 4 Core
<b>JBR-16</b>	16mm <sup>2</sup> x 4 Core
<b>JBR-35</b>	35mm <sup>2</sup> x 4 Core

Part number	Maximum Cable Size
<b>JBR-95</b>	95mm <sup>2</sup> x 4 Core
<b>JBR-185</b>	185mm <sup>2</sup> x 4 Core
<b>JBR-300</b>	300mm <sup>2</sup> x 4 Core

**Branch Joints Data**



Part Number	Dimensions mm				
	A	B	C	D	E
JBR-6	240	125	75	12	22
JBR-16	345	160	95	20	35
JBR-35	435	175	100	24	40
JBR-95	650	210	190	27	51
JBR-185	870	250	230	40	65
JBR-300	1020	300	310	55	80

**Branch Joints Selection Table**

Part Number	Cable conductor size mm <sup>2</sup>			Cable entry diameter mm	
	2-core	3-core	4-core	min	max
JBR-6	1.5 - 10	1.5 - 6	1.5 - 6	12	22
JBR-16	16 - 25	10 - 25	10 - 16	20	35
JBR-35	35	35	25 - 35	24	40
JBR-95	50 - 95	50 - 95	50 - 95	27	51
JBR-185	120 - 185	120 - 185	120 - 185	40	65
JBR-300	240 - 300	240 - 300	240 - 300	55	80

Please contact your local sales office to join other cable variations

## LV Inline Resin Joints - Unarmoured Cables

### FEATURES

- Designed to connect inline unarmoured LV power cables by encapsulating in a resin filled shell
- One part mould body with snap fit closing system for a simpler installation
- Supplied with European legislation (REACH) compliant two part polyetherurethane resin
- Kit comprises mould shell, Scotchcast 470W resin, snap in five core spacer, abrasive sponge, gloves and crimp ferrules (on request)
- Tested to BS EN 50393



**Inline resin joints for LV unarmoured power cables**

Part number	Maximum cable size mm <sup>2</sup>
91-NBA-0	4mm <sup>2</sup> x 4 Core
91-NBA-1	10mm <sup>2</sup> x 4 Core
91-NBA-3	35mm <sup>2</sup> x 4 Core
91-NBA-4	50mm <sup>2</sup> x 4 Core

Part number	Maximum cable size mm <sup>2</sup>
91-NBA-5	95mm <sup>2</sup> x 4 Core
91-NBA-6	150mm <sup>2</sup> x 4 Core
91-NBA-7	240mm <sup>2</sup> x 4 Core

## LV Inline Resin Joints - Pilot & Telecom Cables

### FEATURES

- Designed to connect inline pilot and telecom cables by encapsulating in a resin filled shell
- One part mould body with snap fit closing system for a simpler installation
- Supplied with European legislation (REACH) compliant two part polyetherurethane resin
- Kit comprises mould shell, Scotchcast 470W resin, copper stocking, constant force springs, Scotch 23 tape, web spacer tape and crimp ferrules (on request)
- Tested to BS EN 50393



**Inline resin joints for pilot and telecom cables**

Part number	Maximum cable size mm <sup>2</sup>	
	Telecom	Pilot
LVI-1/2-PT	2 Pair 0.9mm <sup>2</sup>	-
LVI-1/3-PT	5-15 Pair 0.9mm <sup>2</sup>	2-4 Core 1.5-2.5mm <sup>2</sup>
LVI-1/4-PT	20-30 Pair 0.9mm <sup>2</sup>	7-19 Core 1.5-2.5mm <sup>2</sup>

Part number	Maximum cable size mm <sup>2</sup>	
	Telecom	Pilot
LVI-1/5-PT	40-50 Pair 0.9mm <sup>2</sup>	27-37 Core 1.5-2.5mm <sup>2</sup>
LVI-1/6-PT	60-100 Pair 0.9mm <sup>2</sup>	-

## LV Inline Petrochemical Resin Joints - Armoured Cables

### FEATURES

- Designed to connect inline multi-core, armoured polymeric, low voltage energy cables in hazardous areas
- Two part mould body with snap fit closing system for quick and easy handling
- Transparent flame retardant mould body for easy control of connector distances
- Flame retardant according to UL94 V0
- Chemical resistant, especially against hydro carbons
- Supplied with new European standard (REACH) compliant 1402 FR hazardous area resin



**Inline petrochemical resin joints for LV armoured power cables**

Part number	Maximum cable size mm <sup>2</sup>
LVI-3/2-C	6mm <sup>2</sup> x 4 core
LVI-3/3-C	16mm <sup>2</sup> x 4 core
LVI-3/4	35mm <sup>2</sup> x 4 core
LVI-3/5	70mm <sup>2</sup> x 4 core

Part number	Maximum cable size mm <sup>2</sup>
LVI-3/6	120mm <sup>2</sup> x 4 core
LVI-3/7	185mm <sup>2</sup> x 4 core
LVI-3/8	400mm <sup>2</sup> x 4 core

**Heat Shrink Joint - Multicore Cables**



**FEATURES**

- Designed to connect LV armoured multicore cables within a heat shrink joint
- Suitable for indoor or outdoor environments
- Excellent electrical insulation and mechanical strength from protective liner
- Simple and fast installation - no curing time
- Immediate backfill
- 1000V Rated
- Tested to BS EN 50393
- Temperature Rating -50°C to +50°C

**Heat Shrink joint for armoured multicore cables**

Part number	Maximum cable size mm <sup>2</sup>
<b>ECKJ-0017</b>	1-2.5mm <sup>2</sup> x 7 Core
<b>ECKJ-0018</b>	1-2.5mm <sup>2</sup> x 14 Core
<b>ECKJ-0019</b>	1-2.5mm <sup>2</sup> x 21 Core

Part number	Maximum cable size mm <sup>2</sup>
<b>ECKJ-0020</b>	1-2.5mm <sup>2</sup> x 40 Core
<b>ECKJ-0021</b>	1-2.5mm <sup>2</sup> x 75 Core

**Multicore with Armour Data**

Part Number	Number of Cores	Size of Conductor mm <sup>2</sup>	Diameter over Inner Sheath mm	Overall Diameter mm
ECKJ-0017	4-7	1-2.5	9-15	14-23
ECKJ-0018	8-14	1-2.5	10-18	15-26
ECKJ-0019	15-21	1-2.5	18-26	24-35
ECKJ-0020	22-40	1-2.5	23-26	30-45
ECKJ-0021	41-75	1-2.5	32-44	39-55

**Heat Shrink Joint - Multi-Pair Cables**



**FEATURES**

- Designed to connect LV armoured multipair cables within a heat shrink joint.
- Suitable for indoor or outdoor environments
- Excellent electrical insulation and mechanical strength from protective liner
- Simple and fast installation - no curing time
- Immediate backfill
- 1000V Rated
- Tested to BS EN 50393
- Temperature Rating -50°C to +50°C

**Heat Shrink joint for armoured multipair cables**

Part number	Maximum cable size mm <sup>2</sup>
<b>ECKJ-0140</b>	0.6-1mm <sup>2</sup> - 1- 4 Pair
<b>ECKJ-0141</b>	0.6-1mm <sup>2</sup> - 5-7 Pair
<b>ECKJ-0142</b>	0.6-1mm <sup>2</sup> - 8-19 Pair

Part number	Maximum cable size mm <sup>2</sup>
<b>ECKJ-0143</b>	0.6-1mm <sup>2</sup> - 20-37 Pair
<b>ECKJ-0144</b>	0.6-1mm <sup>2</sup> - 38-61 Pair

**Multipair with Armour Data**

Part Number	Number of Pairs	Size of Conductor mm <sup>2</sup>	Diameter over Inner Sheath mm	Overall Diameter mm
ECKJ-0140	1-4	0.6 - 2 x 1.0	9-15	15-23
ECKJ-0141	5-7	0.6 - 2 x 1.0	10-18	15-26
ECKJ-0142	8-19	0.6 - 2 x 1.0	18-26	24-35
ECKJ-0143	20-37	0.6 - 2 x 1.0	23-26	30-45
ECKJ-0144	38-61	0.6 - 2 x 1.0	32-44	39-55

### Straight Heat Shrink Joint - Armoured Cables

**FEATURES**

- Designed to connect inline LV armoured cables within a heat shrink joint
- Ideal for vertical installations in indoor and outdoor environment
- Excellent electrical insulation and mechanical strength from protective liner
- Simple and fast installation - no curing time
- Immediate backfill
- 1000V Rated
- Tested to BS EN 50393
- Temperature Rating -50°C to +50°C



**Straight heat shrink joints for LV armoured cables**

Part number	Maximum cable size
<b>AR101</b>	1.5-4mm <sup>2</sup> 4 core
<b>AR102</b>	6-16mm <sup>2</sup> 4 Core
<b>AR3</b>	25-50mm <sup>2</sup> 4 Core

Part number	Maximum cable size
<b>AR4</b>	70-150mm <sup>2</sup> 4 Core
<b>AR5</b>	185-300mm <sup>2</sup> 4 Core

### LUL Approved Straight Heat Shrink Joint - Armoured Cables

**FEATURES**

- Designed to connect inline LV armoured cables within a heat shrink joint
- Ideal for vertical installations in indoor and outdoor environment
- Excellent electrical insulation and mechanical strength from protective liner
- Simple and fast installation - no curing time
- Immediate backfill
- Low Smoke Zero Halogen
- 1000V Rated
- Tested to BS EN 50393
- London Underground approved
- Temperature Rating -50°C to +50°C



**Straight heat shrink joints for LV armoured cables**

Part number	Maximum cable size
<b>SMOE82051</b>	185-300mm <sup>2</sup>
<b>SMOE82244</b>	13 PAIR 1.5mm <sup>2</sup>

Part number	Maximum cable size
<b>SMOE82231</b>	37 PAIR 1.5mm <sup>2</sup>

### Straight Cold Shrink Joint Kit

**FEATURES**

- Designed to connect inline LV armoured and unarmoured cables within a cold applied joint
- Low temperature installation - no heat required
- Faster installation time with pullout
- Improved rubber formulation withstands rough backfilling
- Waterproof seal
- 1000V Rated
- Tested to BS EN 50393



**Straight cold shrink joints for LV armoured and unarmoured cables**

Part number	Max Cable Diameter	Diameter over Armour
<b>LC1</b>	16.2 - 33.1mm	9 - 15mm
<b>LC2</b>	16.2 - 33.1mm	14 - 22mm
<b>LC3</b>	16.2 - 33.1mm	18.5 - 29mm

Part number	Max Cable Diameter	Diameter over Armour
<b>LC4</b>	24.9 - 56.4mm	23.5 - 37mm
<b>LC5</b>	37.8 - 84.3mm	31 - 50mm
<b>LC6</b>	37.8 - 84.3mm	44 - 70mm

## Tidal Power Generation



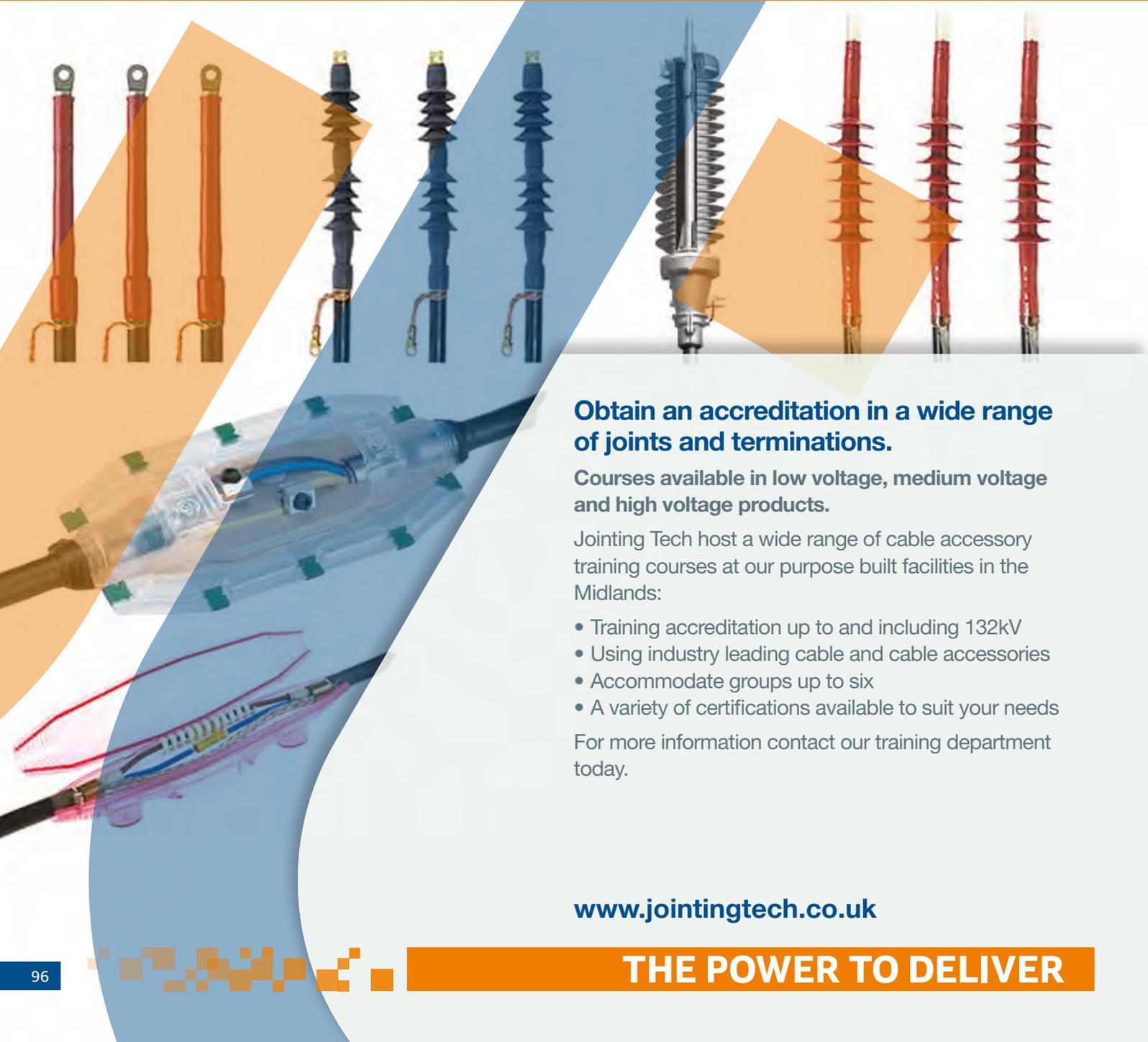
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# MV Terminations

## Contents

**PFISTERER**  
THE POWER CONNECTION

**TE**  
connectivity

**3M**

11kV Indoor Termination	<b>98</b>	Interface Bushings A to E	<b>116</b>
11kV Outdoor Terminations	<b>100</b>	Separable Connectors for A Type Bushings	<b>117</b>
11kV Single Core Outdoor Terminations	<b>101</b>	Separable Connectors for B Type Bushing	<b>118</b>
11kV Three Core Indoor Terminations	<b>102</b>	Separable Connectors for C Type Bushing	<b>119</b>
11kV Heat Shrink/Cold Shrink Outdoor Terminations	<b>104</b>	Separable Connectors for D/E Type Bushing	<b>121</b>
33kV Indoor/Outdoor Terminations	<b>106</b>	HDC Cable Cabinets	<b>122</b>
11/33kV Indoor Accessories	<b>109</b>	Inner Cone Terminations	<b>124</b>
11/33kV Indoor/Outdoor Accessories	<b>111</b>	33 & 52kV Self Supporting Terminations	<b>125</b>
11/33kV Outdoor Accessories	<b>112</b>	52kV Heat Shrink/ Cold Shrink Terminations	<b>126</b>
11kV Indoor Accessories	<b>113</b>		
11/33kV Outdoor Accessories	<b>115</b>		

## Single Core Termination with Integral Stress Control for XLPE Cable - Indoor

### FEATURES

- Designed to terminate single core, polymeric insulated 11kV cables in indoor applications to switchgear and cable end boxes
- Suitable for both copper wire and copper tape screen cables
- Highly reliable UK industry standard termination
- Range taking with few components needed
- New ceramic stress control
- Compact design
- No shelf life limitation
- Suitable for use on 11kV triplex cables
- Kit contents: Insulation tubing including co-extruded stress control, sealant tapes and installation instructions
- Tested in accordance with CENELEC specification HD 629.1 and IEC, which encompasses IEC, BS and VDE etc.
- All IXSU/OXSU components have full traceability of raw materials and manufacture according to ISO 9001 and ISO 14001



**Single core heat shrink termination for XLPE cables in indoor applications**

Part number	Conductor Size
<b>IXSU-F-3111</b>	10-35mm <sup>2</sup>
<b>IXSU-F-3121</b>	25-95mm <sup>2</sup>
<b>IXSU-F-3131</b>	95-240mm <sup>2</sup>

Part number	Conductor Size
<b>IXSU-F-3141</b>	240-500mm <sup>2</sup>
<b>IXSU-F-3151</b>	500-800mm <sup>2</sup>
<b>IXSU-F-3161</b>	1000-1200mm <sup>2</sup>

## Single Core Termination for XLPE Copper Wire Screened Cables - Indoor

### FEATURES

- Designed to terminate single core, copper wire screened polymeric insulated 11kV cables in indoor applications to switchgear and cable end boxes
- No tools, easy install and ultra lightweight assembly
- Range taking with few components needed
- Inorganic cold shrink silicone insulation
- Kit contents: Termination body and mastic seal
- Tested in accordance CENELEC specification HD629.1 and IEC60502.04 which encompasses the BS, VDE etc.
- 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



**QTIII series single core cold shrink termination for XLPE cables indoor**

Part number	Conductor Size
<b>92-EP621-1</b>	50-95mm <sup>2</sup>
<b>92-EP631-1</b>	120-400mm <sup>2</sup>

Part number	Conductor Size
<b>92-EP641-1</b>	500-630mm <sup>2</sup>
<b>92-EP656-1</b>	800-1000mm <sup>2</sup>



## Single Core Termination for XLPE Copper Tape Screened Cables - Indoor



### FEATURES

- Designed to terminate single core, copper tape screened armoured polymeric insulated 11kV cables in indoor applications to switchgear and cable end boxes
- No tools, easy install and ultra lightweight assembly
- Range taking with few components needed
- Inorganic cold shrink silicone insulation
- Kit contents: Termination body, earthing kit and mastic seal
- Tested in accordance CENELEC specification HD629.1 which encompasses the BS, VDE etc.

**QTIII series single core cold shrink termination for XLPE cables indoor**

Part number	Conductor Size
<b>92-EP623-1</b>	50-95mm <sup>2</sup>
<b>92-EP633-1</b>	120-150mm <sup>2</sup>

Part number	Conductor Size
<b>92-EP643-1</b>	185-400mm <sup>2</sup>
<b>92-EP653-1</b>	500-630mm <sup>2</sup>



## Single Core Termination with Integral Stress Control for XLPE Cable - Outdoor

### FEATURES

- Designed to terminate single core, polymeric insulated 11kV cables in outdoor applications such as pole top assemblies
- Highly reliable UK industry standard termination
- Range taking with few components needed
- New ceramic stress control
- Compact design
- No shelf life limitation
- Suitable for use on 11kV triplex cables
- Kit contents: Insulation tubing including co-extruded stress control, sealant tapes and installation instructions
- Tested in accordance with CENELEC specification HD 629.1 which encompasses IEC 60502.04, BS and VDE etc.
- All IXSU/OXSU components have full traceability of raw materials and manufacture according to ISO 9001 and ISO 14001



**Single core heat shrink termination for XLPE cables in outdoor applications**

Part number	Conductor Size
<b>OXSU-F-3111</b>	10-35mm <sup>2</sup>
<b>OXSU-F-3121</b>	25-95mm <sup>2</sup>
<b>OXSU-F-3131</b>	95-240mm <sup>2</sup>

Part number	Conductor Size
<b>OXSU-F-3141</b>	240-400mm <sup>2</sup>
<b>OXSU-F-3151</b>	500-800mm <sup>2</sup>
<b>OXSU-F-3161</b>	1000-1200mm <sup>2</sup>

## Single Core Termination for XLPE Copper Wire Screened Cables - Outdoor

### FEATURES

- Designed to terminate single core, copper wire screened polymeric insulated 11kV cables in outdoor applications such as pole top assemblies
- No tools, easy install and ultra lightweight assembly
- Range taking with few components needed
- Inorganic cold shrink silicone insulation
- Kit contents: Termination body and mastic seal
- Tested in accordance CENELEC specification HD629.1 which encompasses the BS, VDE etc.
- 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
- Skirts are integrated for easier and faster installation
- Cold shrink technology ensures quick, easy and safe installation.



**QTIII series single core cold shrink termination for XLPE outdoor cables**

Part number	Conductor Size
<b>92-EP621-2</b>	50-95mm <sup>2</sup>
<b>92-EP631-2</b>	120-400mm <sup>2</sup>

Part number	Conductor Size
<b>92-EP641-2</b>	500-630mm <sup>2</sup>

## Single Core Termination for XLPE Copper Tape Screened Cables - Outdoor



**QTIII series single core cold shrink termination for XLPE outdoor cables**

### FEATURES

- Designed to terminate single core, polymeric insulated 11kV cables with copper tape screen, armour and or lead sheath
- No tools, easy install and ultra lightweight assembly
- Range taking with few components needed
- Inorganic cold shrink silicone insulation
- Tested in accordance CENELEC specification HD629.1 which encompasses the BS, VDE etc.
- 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
- Solderless earth connection using constant force springs
- Skirts are integrated for easier and faster installation
- Cold shrink technology ensures quick, easy and safe installation

Part number	Conductor Size
92-EP623-2	50-95mm <sup>2</sup>
92-EP633-2	120-150mm <sup>2</sup>

Part number	Conductor Size
92-EP643-2	185-400mm <sup>2</sup>
92-EP653-2	500-630mm <sup>2</sup>

## Three Core Terminations for XLPE Cables - Indoor

### FEATURES

- Designed to terminate three core, polymeric insulated 11kV cables in indoor applications to switchgear and cable end boxes
- Kit contents: stress control tubing, sealant coated breakouts and core insulation sleeves, sealant tapes, and installation instructions
- Tested in accordance with CENELEC specification HD 629.1 which encompasses IEC, BS and VDE etc



**Three core heat shrink termination for XLPE cables in indoor applications**

Part number	Conductor Size	Tail Length
EPKT17A3XIH2	16-25mm <sup>2</sup>	650mm
EPKT17A3XIH4	16-25mm <sup>2</sup>	1200mm
EPKT17B3XIH2	35-70mm <sup>2</sup>	650mm
EPKT17B3XIH4	35-70mm <sup>2</sup>	1200mm

Part number	Conductor Size	Tail Length
EPKT17C3XIH2	95-240mm <sup>2</sup>	650mm
EPKT17C3XIH4	95-240mm <sup>2</sup>	1200mm
EPKT17D3XIH2	300-400mm <sup>2</sup>	650mm
EPKT17D3XIH4	300-400mm <sup>2</sup>	1200mm

## Three Core Termination with Integral Stress Control for XLPE Cable - Indoor

### FEATURES

- Designed to terminate three core, polymeric insulated 11kV cables in indoor applications to switchgear and cable end boxes
- Highly reliable UK industry standard termination
- Range taking with few components needed
- New ceramic stress control
- Compact design
- No shelf life limitation
- Conductive tubing allows the crossing of the cores below the screen cut.
- Additional tubing is available should the tail lengths need to be increased above 1200mm.
- Kit contents: Insulation tubing including co-extruded stress control, sealant tapes, conductive breakouts and installation instructions
- Tested in accordance with CENELEC specification HD 629.1 which encompasses IEC, BS and VDE etc.
- All IXSU/OXSU components have full traceability of raw materials and manufacture according to ISO 9001 and ISO 14001



**Three core heat shrink termination for XLPE cables in indoor applications**

Part number	Conductor Size	Tail Length
IXSU-F-3301	10-16mm <sup>2</sup>	450mm
IXSU-F-3304	10-16mm <sup>2</sup>	1200mm
IXSU-F-3311	16-35mm <sup>2</sup>	450mm
IXSU-F-3314	16-35mm <sup>2</sup>	1200mm
IXSU-F-3321	25-70mm <sup>2</sup>	450mm

Part number	Conductor Size	Tail Length
IXSU-F-3324	25-70mm <sup>2</sup>	1200mm
IXSU-F-3331	95-240mm <sup>2</sup>	450mm
IXSU-F-3334	95-240mm <sup>2</sup>	1200mm
IXSU-F-3341	240-500mm <sup>2</sup>	450mm
IXSU-F-3344	240-500mm <sup>2</sup>	1200mm



## Three Core Terminations for XLPE Copper Tape Screened Cables - Indoor



**QTIII series three core cold shrink termination for XLPE cables indoor**

### FEATURES

- Designed to terminate three core, copper tape screened armoured polymeric insulated 11kV cables in indoor applications to switchgear and cable end boxes
- No tools, easy install and ultra lightweight assembly
- 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
- Range taking with few components needed
- Inorganic cold shrink silicone insulation
- Kit contents: Termination body, breakouts, re-jacketing sleeve, earthing kit and mastics
- Tested in accordance CENELEC specification HD629.1 which encompasses the BS, VDE etc.

Part number	Conductor Size	Part number	Conductor Size
92-EP626-3	50-120mm <sup>2</sup>	92-EP646-3	240-300mm <sup>2</sup>
92-EP636-3	150-185mm <sup>2</sup>	92-EP656-3	150-400mm <sup>2</sup>



## Three Core Terminations for PILC/PICAS Cables - Indoor



**Three core heat shrink termination for PILC/PICAS cables in indoor applications**

### FEATURES

- Designed to terminate three core, paper insulated 11kV cables in indoor applications to switchgear and cable end boxes
- Available in 650mm and 1200mm tail lengths
- Compatible with crimp and mechanical lugs
- Range taking terminations with four sizes covering 16 to 400mm<sup>2</sup>
- Kit contents: stress control tubing, sealant coated breakouts and core insulation sleeves, sealant tapes, oil barrier tubes and installation instructions
- Tested in accordance with CENELEC specification HD629.1 which encompasses IEC, BS and VDE etc

Part number	Conductor Size	Tail Length	Part number	Conductor Size	Tail Length
EPKT17A3MIH2	16-25mm <sup>2</sup>	650mm	EPKT17C3MIH2	95-240mm <sup>2</sup>	650mm
EPKT17A3MIH4	16-25mm <sup>2</sup>	1200mm	EPKT17C3MIH4	95-240mm <sup>2</sup>	1200mm
EPKT17B3MIH2	35-70mm <sup>2</sup>	650mm	EPKT17D3MIH2	300-400mm <sup>2</sup>	650mm
EPKT17B3MIH4	35-70mm <sup>2</sup>	1200mm	EPKT17D3MIH4	300-400mm <sup>2</sup>	1200mm

### Three Core Terminations for XLPE Cables - Outdoor

#### FEATURES

- Designed to terminate three core, polymeric insulated 11kV cables in outdoor applications such as pole top assemblies
- Kit contents: stress control tubing, sealant coated breakouts and core insulation sleeves, sealant tapes, and installation instructions
- Tested in accordance with CENELEC specification HD629.1 which encompasses IEC, BS and VDE etc



**Three core heat shrink termination for XLPE cables in outdoor applications**

Part number	Conductor Size	Tail Length
EPKT17A3XOH2	16-25mm <sup>2</sup>	650mm
EPKT17A3XOH4	16-25mm <sup>2</sup>	1200mm
EPKT17B3XOH2	35-70mm <sup>2</sup>	650mm
EPKT17B3XOH4	35-70mm <sup>2</sup>	1200mm

Part number	Conductor Size	Tail Length
EPKT17C3XOH2	95-240mm <sup>2</sup>	650mm
EPKT17C3XOH4	95-240mm <sup>2</sup>	1200mm
EPKT17D3XOH2	300-400mm <sup>2</sup>	650mm
EPKT17D3XOH4	300-400mm <sup>2</sup>	1200mm

### Three Core Termination with Integral Stress Control for XLPE Cable - Outdoor

#### FEATURES

- Designed to terminate three core, polymeric insulated 11kV cables in outdoor applications such as pole top assemblies
- Highly reliable UK industry standard termination
- Range taking with few components needed
- New ceramic stress control
- Compact design
- No shelf life limitation
- Conductive tubing allows the crossing of the cores below the screen cut
- Additional tubing is available should the tail lengths need to be increased above 1200mm
- Kit contents: Insulation tubing including co-extruded stress control, sealant tapes, conductive breakouts and installation instructions
- Tested in accordance with CENELEC specification HD 629.1 which encompasses IEC, BS and VDE etc.
- All IXSU/OXSU components have full traceability of raw materials and manufacture according to ISO 9001 and ISO 14001



**Three core heat shrink termination for XLPE cables in outdoor applications**

Part number	Conductor Size	Tail Length
OXSU-F-3301	10-16mm <sup>2</sup>	450mm
OXSU-F-3304	10-16mm <sup>2</sup>	1200mm
OXSU-F-3311	16-35mm <sup>2</sup>	450mm
OXSU-F-3314	16-35mm <sup>2</sup>	1200mm
OXSU-F-3321	25-70mm <sup>2</sup>	450mm

Part number	Conductor Size	Tail Length
OXSU-F-3324	25-70mm <sup>2</sup>	1200mm
OXSU-F-3331	95-300mm <sup>2</sup>	450mm
OXSU-F-3334	95-300mm <sup>2</sup>	1200mm
OXSU-F-3341	240-500mm <sup>2</sup>	450mm
OXSU-F-3344	240-500mm <sup>2</sup>	1200mm



### Three Core Terminations for XLPE Copper Tape Screened Cables - Outdoor



#### FEATURES

- Designed to terminate three core, copper tape screened polymeric insulated 11kV cables in outdoor applications such as pole top assemblies
- No tools, easy install and ultra lightweight assembly
- Range taking with few components needed
- Inorganic cold shrink silicone insulation
- Kit contents: Termination body, breakout, re-jacketing sleeve, earthing kit, mastics, Scotchcast™ resin and Scotch™ 70 tape
- Tested in accordance CENELEC specification HD629.1 which encompasses the BS, VDE etc.

**QTIII series three core cold shrink termination for XLPE cables in outdoor applications**

Part number	Conductor Size	Part number	Conductor Size
7691-S4-3W	16-50mm <sup>2</sup>	7693-S4-3W	150-300mm <sup>2</sup>
7692-S4-3W	70-120mm <sup>2</sup>		



### Three Core Terminations for PILC/PICAS Cables - Outdoor



#### FEATURES

- Designed to terminate three core, paper insulated 11kV cables in outdoor applications such as pole top assemblies
- Range taking terminations with four sizes covering 16 to 400mm<sup>2</sup>
- Available in 650mm and 1200mm tail lengths
- Compatible with crimp and mechanical lugs
- Kit contents: stress control tubing, sealant coated breakouts and core insulation sleeves, sealant tapes, oil barrier tubes and installation instructions
- Tested in accordance with CENELEC specification HD629.1 which encompasses IEC, BS and VDE etc

**Three core heat shrink termination for PILC/PICAS cables in outdoor applications**

Part number	Conductor Size	Tail Length	Part number	Conductor Size	Tail Length
EPKT17A3MOH2	16-25mm <sup>2</sup>	650mm	EPKT17C3MOH2	95-240mm <sup>2</sup>	650mm
EPKT17A3MOH4	16-25mm <sup>2</sup>	1200mm	EPKT17C3MOH4	95-240mm <sup>2</sup>	1200mm
EPKT17B3MOH2	35-70mm <sup>2</sup>	650mm	EPKT17D3MOH2	300-400mm <sup>2</sup>	650mm
EPKT17B3MOH4	35-70mm <sup>2</sup>	1200mm	EPKT17D3MOH4	300-400mm <sup>2</sup>	1200mm



## Single Core Terminations for XLPE Cables - Indoor

### FEATURES

- Designed to terminate single, polymeric insulated 33kV cables in indoor applications to switchgear and cable end boxes
- UK industry standard termination
- Outstanding reliability
- Range taking
- Few components needed
- Will accommodate copper wire and copper tape screen
- Simplified cable preparation
- Simplified installation
- Compact design
- No shelf life limitation
- Kit contents: stress control tubings, non tracking sleeve with sealant layer and void filling mastic with installation instructions
- Tested in accordance with CENELEC specification HD 629.1 which encompasses IEC, BS and VDE etc
- Components have full traceability of raw materials and manufacture according to ISO 9001 and ISO 14001



**Single core heat shrink termination for XLPE cables in indoor applications**

Part number	Conductor Size
EPKT36C1XI	50-95mm <sup>2</sup>
EPKT36D1XI	120-185mm <sup>2</sup>

Part number	Conductor Size
EPKT36E1XI	240-500mm <sup>2</sup>
EPKT36F1XI	630-1000mm <sup>2</sup>

## Single Core Terminations for XLPE Copper Wire Screen for Mechanical Lugs - Indoor/Outdoor

### FEATURES

- Designed to terminate single core, copper wire screened polymeric insulated 33kV cables in indoor/outdoor applications to switchgear, cable end boxes and pole top assemblies
- No tools, easy install and ultra lightweight assembly
- One-piece cold shrink termination body allows fast and easy installation
- Installation can be made from -20°C to +50°C
- Cold shrink technology mean the collapsible tubes are all shrink down to the correct limits
- Kit contents: Termination body and mastic seal
- Tested in accordance CENELEC specification HD629.1 which encompasses the BS, VDE etc.



**QTIII series single core cold shrink termination for XLPE copper wire screen indoor/outdoor**

Part number	Conductor Size
94-EP610-2	25-120mm <sup>2</sup>
94-EP620-2	50-150mm <sup>2</sup>

Part number	Conductor Size
94-EP630-2	120-300mm <sup>2</sup>
94-EP640-2	240-630mm <sup>2</sup>

## Single Core Termination for XLPE Copper Tape Screen Cables - Indoor/Outdoor



**QIII series single core cold shrink termination for XLPE copper tape screened cables armoured or lead indoor/outdoor**

### FEATURES

- Designed to terminate single core, copper tape screened polymeric insulated 33kV cables in indoor/outdoor applications to switchgear, cable end boxes and pole top assemblies
- No tools, easy install and ultra lightweight assembly
- One-piece cold shrink termination body allows fast and easy installation
- Installation can be made from -20°C to +50°C
- Cold shrink technology mean the collapsible tubes are all shrink down to the correct limits
- Kit contents: Termination body, earthing kit and mastic seal
- Tested in accordance CENELEC specification HD629.1 which encompasses the BS, VDE etc.

Part number	Conductor Size
94-EP612-2	50-120mm <sup>2</sup>
94-EP622-2	70-240mm <sup>2</sup>

Part number	Conductor Size
94-EP632-2	185-400mm <sup>2</sup>
94-EP642-2	400-630mm <sup>2</sup>

## Single Core Terminations for Xlpe Cables - Outdoor



**Single core heat shrink termination for XLPE cables in outdoor applications**

### FEATURES

- Designed to terminate single core, polymeric insulated 33kV cables in outdoor applications such as pole top assemblies
- UK industry standard termination
- Outstanding reliability
- Range taking
- Few components needed
- Will accommodate copper wire and copper tape screen
- Simplified cable preparation
- Simplified installation
- Compact design
- No shelf life limitation
- Kit contents: stress control tubings, non tracking sleeve with sealant layer and void filling mastic with installation instructions
- Tested in accordance with CENELEC specification HD 629.1 which encompasses IEC, BS and VDE etc
- Components have full traceability of raw materials and manufacture according to ISO 9001 and ISO 14001

Part number	Conductor Size
EPKT36C1XO	50-95mm <sup>2</sup>
EPKT36D1XO	120-185mm <sup>2</sup>

Part number	Conductor Size
EPKT36E1XO	240-500mm <sup>2</sup>
EPKT36F1XO	630-1000mm <sup>2</sup>

## Three Core Terminations for XLPE Cables - Indoor

### FEATURES

- Designed to terminate three core, polymeric insulated 33kV cables in indoor applications to switchgear and cable end boxes
- UK industry standard termination
- Outstanding reliability
- Range taking
- Few components needed
- Simplified cable preparation
- Simplified installation
- Compact design
- No shelf life limitation
- Kit contents: stress control tubings, non tracking sleeve with sealant layer, conductive breakout and void filling mastic with installation instructions
- Tested in accordance with CENELEC specification HD 629.1 which encompasses IEC, BS and VDE etc
- Components have full traceability of raw materials and manufacture according to ISO 9001 and ISO 14001



**Three core heat shrink termination for XLPE cables in indoor applications**

Part number	Conductor Size
EPKT36C3XIH2	50-95mm <sup>2</sup>
EPKT36C3XIH4	50-95mm <sup>2</sup>
EPKT36D3XIH2	120-185mm <sup>2</sup>

Part number	Conductor Size
EPKT36D3XIH4	120-185mm <sup>2</sup>
EPKT36E3XIH2	240-500mm <sup>2</sup>
EPKT36E3XIH4	240-500mm <sup>2</sup>

## Three Core Terminations for XLPE Cables - Outdoor

### FEATURES

- Designed to terminate three core, polymeric insulated 33kV cables in outdoor applications such as pole top assemblies
- UK industry standard termination
- Outstanding reliability
- Range taking
- Few components needed
- Simplified cable preparation
- Simplified installation
- Compact design
- No shelf life limitation
- Kit contents: stress control tubings, non tracking sleeve with sealant layer, conductive breakout and void filling mastic with installation instructions
- Tested in accordance with CENELEC specification HD 629.1 which encompasses IEC, BS and VDE etc
- Components have full traceability of raw materials and manufacture according to ISO 9001 and ISO 14001



**Three core heat shrink termination for XLPE cables in outdoor applications**

Part number	Conductor Size
EPKT36C3XOH4	50-95mm <sup>2</sup>
EPKT36D3XOH4	120-185mm <sup>2</sup>

Part number	Conductor Size
EPKT36E3XOH4	240-500mm <sup>2</sup>

**Single Core Armoured Gland**



**Aluminium gland kits for single core armoured cable**

**FEATURES**

- Aluminium gland kit is designed to electrically earth the aluminium wire armours of the single core cables
- Suitable for use at 11 and 33kV
- Kit contents: three aluminium glands complete with heat shrink sleeve, jubilee clips and bolt pack
- Available with an insulating plate where separate earth facility is required (See insulating kit on page 110)

Part number	Conductor Size
<b>EAKT1608</b>	50-630mm <sup>2</sup>

**Three Core Armoured Gland**



**Steel gland kits for three core armoured cable**

**FEATURES**

- Steel gland kit is designed to electrically earth the steel wire armours of the multi-core cables
- Suitable for use at 11 and 33kV
- Kit contains one steel gland complete with either heat shrink or cold shrink sleeve, jubilee clips and bolt pack
- Available with an insulating plate where separate earth facility is required (See page 110)

Part number	Conductor Size
<b>EAKT1605</b>	up to 70mm <sup>2</sup>
<b>EAKT1606</b>	95-300mm <sup>2</sup>
<b>THG1</b>	36-65mm (cable OD)
<b>THG2</b>	53-94mm (cable OD)

Part number	Application Range
<b>THGS1 (Cold shrink seal)</b>	To fit THG1
<b>THGS2 (Cold shrink seal)</b>	To fit THG2

**Heat Shrink Cable Entry Seal**



**Heat shrink glands for unarmoured cables**

**FEATURES**

- Designed to provide a heat shrinkable watertight cable entry seal where unarmoured cables enter enclosures
- Manufactured from flame retardant polyolefin
- Temperature rated from -55°C to 90°C
- All cable entry seals are adhesive lined to provide a suitable seal
- Kit contents: a rigid nylon nut, O ring, and a heat shrinkable mould area

Part number	Drill Size	Minimum Size Expanded	Maximum Size Recovered
<b>CES-1</b>	25.4	12.7	4.32
<b>CES-2</b>	25.4	19.05	6.35
<b>CES-3</b>	35.05	28.45	12.7
<b>CES-4</b>	50.8	40.64	19.05
<b>CES-5</b>	88.9	69.85	36.32

## Brass Wiping Cones

### FEATURES

- Designed to mechanically earth the lead sheaths of PILC cables
- Kit includes: Brass cone, bolt pack, heat shrink sleeve and jubilee clips
- Gland can be cut to suit the relevant cable size
- Can be used with insulating plates EPPA-045-1 for Size X and EPPA-045-2 for Size Y



Earth gland where plumbing of a lead sheath is required

Part number	Application
GWCX	Wiping Cone Size X

Part number	Application
GWCY	Wiping Cone Size Y

## Insulating Kits

### FEATURES

- Allows the armour gland to be insulated from the enclosure.
- Kit contains: one Epoxy resin plate, plastic nuts and bolts
- Please note three kits should be ordered for single core applications (EAKT1608)
- Plate approx 10mm thick
- Suitable for use at 11 and 33kV

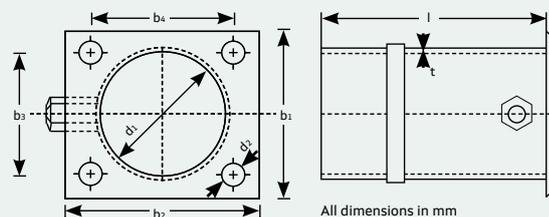


Insulating plate to suit armoured glands

Part number	Application
EPPA-045-1	To fit EAKT1605 & EAKT1608

Part number	Application
EPPA-045-2	To fit EAKT1606

### TE/Raychem Cable Gland Dimensions



Size	b1	b2	b3	b4	d1	d2	l	t
X	90	90	66	66	68	11	140	1
Y	115	125	86	95	97	15	150	1.5

## Solderless Earth Spring Kits for Single & Three Core Copper Tape Screened Cables



### FEATURES

- Designed to mechanically earth the copper tape screens of XLPE cables
- Kit contents: tinned copper earth braids and a roll spring for each phase

### Solderless earth connection system for XLPE cables

Part number	Diameter over screen	Conductor range	
		11kV	33kV
<b>EAKT1655</b>	12-18mm	16-50mm <sup>2</sup>	-
<b>EAKT1656</b>	19-24mm	70-150mm <sup>2</sup>	25-35mm <sup>2</sup>
<b>EAKT1657</b>	25-30mm	185-240mm <sup>2</sup>	50-70mm <sup>2</sup>

Part number	Diameter over screen	Conductor range	
		11kV	33kV
<b>EAKT1658</b>	31-44mm	300-630mm <sup>2</sup>	95-300mm <sup>2</sup>
<b>EAKT1659</b>	41-65mm	800-1000mm <sup>2</sup>	400-1000mm <sup>2</sup>

## Solderless Earth Spring Kits for Three Core PILC Cables



### FEATURES

- Designed to mechanically earth the lead sheaths of PILC cables
- Kit contents: tinned copper earth braid roll spring and a heat shrink sleeve

### Solderless earth connection system for PILC cables

Part number	Diameter over lead sheath	Conductor range	
		11kV	33kV
<b>EAKT1669</b>	28-39mm	16-95mm <sup>2</sup>	-
<b>EAKT1670</b>	40-50mm	120-185mm <sup>2</sup>	-

Part number	Diameter over lead sheath	Conductor range	
		11kV	33kV
<b>EAKT1671</b>	51-60mm	240-300mm <sup>2</sup>	50mm <sup>2</sup>
<b>EAKT1672</b>	61-80mm	400mm <sup>2</sup>	70-300mm <sup>2</sup>

## Solderless Earth Spring Kits for PICAS Cables



### FEATURES

- Designed to mechanically earth the aluminium armour of PICAS cables
- Simple to install, high reliability
- Kit contents: tinned copper braid, beryllium strip, mastic, jubilee clip and heat shrink tube

### Solderless earth connection system

Part number	Conductor Size
<b>SMOE61203 (MEC5) 11kV</b>	95-300mm <sup>2</sup>

## Armour Earthing Kit for Single Core Armoured Plastic and Rubber Insulated Cables

### FEATURES

- Designed to terminate wire armoured plastic cables by means of mechanical clamping rings
- Heat shrinkable tubing for corrosion protection
- Confirm cable diameters prior to ordering



**Armour earthing kit for single core armoured XLPE cables**

Part number	Overall diameter range	Conductor range	
		11kV	33kV
EAKT1636	21-32mm	16-70mm <sup>2</sup>	-
EAKT1637	33-50mm	95-400mm <sup>2</sup>	16-185mm <sup>2</sup>
EAKT1638	51-67mm	500-800mm <sup>2</sup>	240-630mm <sup>2</sup>

## Armour Earthing Kit for Three Core Armoured Plastic and Rubber Insulated Cables

### FEATURES

- Designed to terminate wire armoured plastic cables by means of mechanical clamping rings
- Heat shrinkable tubing for corrosion protection



**Armour earthing kit for three core armoured XLPE cables**

Part number	Overall diameter range	Conductor range	
		11kV	33kV
EAKT1642	40-67mm	16-120mm <sup>2</sup>	16-25mm <sup>2</sup>
EAKT1643	50-86mm	150-240mm <sup>2</sup>	35-95mm <sup>2</sup>
EAKT1644	60-94mm	300-400mm <sup>2</sup>	120-185mm <sup>2</sup>
EAKT1645	70-110mm	-	240-300mm <sup>2</sup>

## Armour Earthing Kit for Three Core Armoured PILC Cables

### FEATURES

- Designed to terminate wire armoured paper cables by means of mechanical clamping rings
- Heat shrinkable tubing for corrosion protection



**Armour earthing kit for three core armoured PILC cables**

Part number	Overall diameter range	Conductor range	
		11kV	33kV
EAKT1641	28-50mm	16-120mm <sup>2</sup>	-
EAKT1642	40-67mm	150-300mm <sup>2</sup>	50-120mm <sup>2</sup>
EAKT1643	50-86mm	400mm <sup>2</sup>	150-300mm <sup>2</sup>

## Universal Cold Applied Boot Kit



**Insulating boots for straight or right angle applications**

### FEATURES

- Used in switchgear and transformers where the clearances are insufficient for operation in air or to protect against flash over due to rodents or extreme humidity
- Can be used as a straight or right angled boot
- Bushing kit available for smaller bushing diameters (below 46mm)
- Easy to remove (no mastic components)

Part number	Application	Conductor Size
<b>SMOE62803</b>	-	10-400mm <sup>2</sup>
<b>RCAB-C-421</b>	31-45mm Bushing Kit For SMOE62803	-

## Straight/Right Angle Heat Shrink Boots



**Insulating boots for straight and right angle connections**

### FEATURES

- Used in switchgear and transformers where the clearances are insufficient for operation in air or to protect against flash over due to rodents or extreme humidity
- Both boots are moulded which are shrunk over the connection between cable and bushing
- Kit includes three boots and mastic kit

Part number		Conductor Size
<b>RSRB4022</b>	Straight	10-35mm <sup>2</sup>
<b>RSRB4024</b>	Straight	50-95mm <sup>2</sup>
<b>RSRB4026</b>	Straight	120-300mm <sup>2</sup>
<b>RSRB4042</b>	Right Angle	10-35mm <sup>2</sup>
<b>RSRB4044</b>	Right Angle	50-95mm <sup>2</sup>
<b>RSRB4046</b>	Right Angle	120-300mm <sup>2</sup>

## Cold Shrink Barrier Tube



**Pre-stretched tubing on a collapsible core for simple installation**

### FEATURES

- Used in switchgear and transformers where the clearances are insufficient for operation in air or to protect against flash over due to extreme humidity
- Track resistant EPDM rubber
- 11kV rated product
- Complete cold shrink system - no heat required

Part number	Application Range	Application
<b>MB63</b>	Up to 630mm <sup>2</sup>	Cold Shrink in line boot

## Cold Applied Barrier Boot System

### FEATURES

- Used in switchgear and transformers where the clearances are insufficient for operation in air or to protect against flash over due to rodents or extreme humidity
- Can be used as a straight or right angled boot
- Track resistant EPDM rubber
- 11kV rated product
- Complete cold applied system - no heat required



**One Piece Cold Applied Boot**

Part number	Description
92-EE717-1	Universal Push on boot 50-300mm <sup>2</sup>
92-EE717-1-BSK	Build up kit for bushings smaller than 40mm <sup>2</sup>

## Right Angle Heat Shrink Boot Kit for 33kV

### FEATURES

- Designed to be used in switchgear and transformers where the clearances are insufficient for operation in air or to protect against flash over due to rodents or extreme humidity
- Exceptional insulation and long term reliability even at high continuous operating temperatures
- High reliability heat shrink components
- Simplified installation
- Kit includes three right angle boots and mastic kit

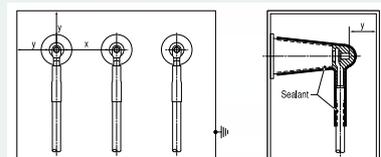


**Insulating boot kit for right angle applications**

Part number	Conductor Size
SMOE50383	95-300mm <sup>2</sup>

### Clearances: Phase-Phase and Phase-Earth

Check the cable box clearances with Table 1. If X and Y are less than the values given in Table 1, Raychem insulating boots must be used.

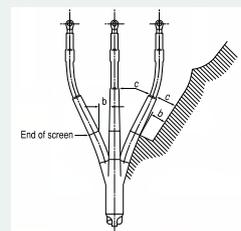


Highest voltage for cable, phase-phase (kV)	6.6	11	22	33
Minimum air clearance between live metal x (mm)	90	127	242	356
Minimum air clearance between live metal and ground Y (mm)	65	75	140	222

Impulse voltage withstand (kV)	75	95	125	170
Minimum clearance between live metal X (mm)	45	75	100	125
Minimum clearance between live metal and ground Y (mm)	32	60	75	100

Highest voltage for cable, phase-phase (kV)	6.6	11	22	33
Minimum clearance b (mm)	10	15	25	35
Minimum clearance c (mm)	15	20	40	50

b is measured at the end of the core screen.  
c is measured at the end of the stress control tubing.



**Pole Top Bracket and Cleat**



**For outdoor applications**

**FEATURES**

- Galvanised bracket and cleat for supporting cables.
- Can be used with surge arrestors or insulators

**Part number**

**EXRM-0969-39**

**Support Insulators and Brackets**



**Cable mounting bracket  
outdoor application**

**FEATURES**

- The sheds of red, non tracking, flexible polymeric material are mounted on a porcelain core
- Set of three complete with galvanised steel bracket

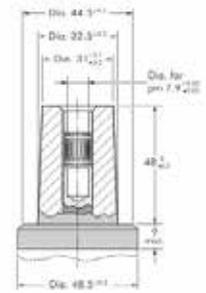
Part number	Voltage
<b>EAKT1524</b>	33kV

Part number	Voltage
<b>EAKT1521</b>	11kV

## Bushing dimensions according to CENELEC EN50181

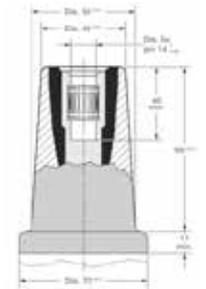
### Interface A or 200 series bushing

Voltage range between 12-24kV  
 Current rating 250amp (copper pin)  
 Bushing has 7.9mm plug in pin



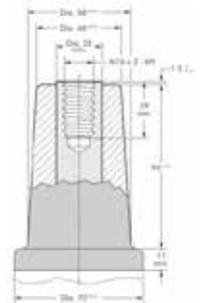
### Interface B or 400 series bushing

Voltage range between 12-36kV  
 Current rating 400amp (copper pin)  
 Bushing has 14mm plug in pin



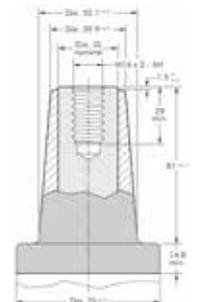
### Interface C or 400 series bushing

Voltage class between 12-36kV  
 Current rating 630 & 1250 amps (copper stud)  
 M16 bolted



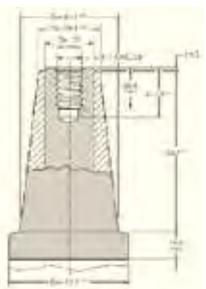
### Interface D or 600 series bushing

Voltage range between 12-24kV  
 Current rating 800amps (ali stud) or 1250amps (copper stud)  
 5/8" bolted



### Interface E or 700 series bushing

Voltage range 12-36kV  
 Current rating 800amps (ali Stud) or 1250amps (copper stud)  
 5/8" bolted





### Separable connector system for interface A bushing 12-24kV 250A

### Separable Connector System for Pin Type A (200 Series) Bushing

#### FEATURES

- Designed to facilitate the easy connection and disconnection of single core copper wire screened XLPE cables to medium voltage switchgear and transformer equipment
- Manufactured from crosslinked EPDM and protected with a minimum 3mm layer of moulded conductive outer layer
- These deadbreak adaptors are suitable for indoor and outdoor applications
- Their wide application range covers several different cable cross sections without the need for additional cable adaptors
- Available in straight and elbow configuration
- Supplied with high strength bimetallic compression connectors to connect copper and aluminium conductors
- The screened cable connector exceeds CENELEC HD 629.1 S1 requirements which includes BS, VDE and other international specifications
- Maximum System Voltage 24kV
- Continuous Current 250A

Part number	Adaptor Type	Conductor Size	Dia Core Insulation
RSSS-5201	Straight	16mm <sup>2</sup>	13.5mm - 17.4mm
RSSS-5202	Straight	25mm <sup>2</sup>	13.5mm - 17.4mm
RSSS-5203	Straight	35mm <sup>2</sup>	13.5mm - 17.4mm
RSSS-5205	Straight	50mm <sup>2</sup>	13.5mm - 17.4mm
RSSS-5217	Straight	70mm <sup>2</sup>	16.3mm - 20.8mm
RSSS-5219	Straight	95mm <sup>2</sup>	16.3mm - 20.8mm
RSES-5201	Elbow	16mm <sup>2</sup>	13.5mm - 17.4mm

Part number	Adaptor Type	Conductor Size	Dia Core Insulation
RSES-5202	Elbow	25mm <sup>2</sup>	13.5mm - 17.4mm
RSES-5203	Elbow	35mm <sup>2</sup>	13.5mm - 17.4mm
RSES-5205	Elbow	50mm <sup>2</sup>	13.5mm - 17.4mm
RSES-5217	Elbow	70mm <sup>2</sup>	16.3mm - 20.8mm
RSES-5219	Elbow	95mm <sup>2</sup>	16.3mm - 20.8mm
RSES-5224	Elbow	120mm <sup>2</sup>	19.6mm - 24.1mm



### Separable connector system for interface A bushing 12-24kV 250A

### Separable Connector System for Pin Type A (200 Series) Bushing

#### FEATURES

- Designed to facilitate the easy connection and disconnection of single core copper wire screened XLPE cables to medium voltage transformer and switchgear equipment
- The connectors are manufactured in three layers, a conductive inner layer, an insulation layer and a conductive outer layer
- The materials are vulcanised together to give the best possible interface between layers
- The cable connector includes a capacitive test point with protection and integrated earthing wire
- UV, ozone and tracking resistant
- Available in straight and elbow configuration
- Screen separation kit can be ordered separately for three core cables
- Supplied with bimetallic mechanical lugs to connect copper and aluminium conductor
- The screened cable connector exceeds CENELEC HD 629.52 S1 requirements which includes BS, VDE and other international specifications
- Maximum System Voltage 24kV
- Continuous Current 250A

Part number	Conductor Size	Type	Voltage	Core Insulation Diameter
CSS-A 12250-01	10-16mm <sup>2</sup>	STRAIGHT	12kV	10-12mm
CSS-A 12250-02	25-95mm <sup>2</sup>	STRAIGHT	12kV	13-22mm
CSS-A 24250-01	10-16mm <sup>2</sup>	STRAIGHT	24kV	13-22mm
CSS-A 24250-02	25-95mm <sup>2</sup>	STRAIGHT	24kV	17-25.5mm

Part number	Conductor Size	Type	Voltage	Core Insulation Diameter
CSE-A 12250-01	10-16mm <sup>2</sup>	ELBOW	12kV	10-12mm
CSE-A 12250-02	25-95mm <sup>2</sup>	ELBOW	12kV	13-22mm
CSE-A 24250-01	10-16mm <sup>2</sup>	ELBOW	24kV	13-22mm
CSE-A 24250-02	25-95mm <sup>2</sup>	ELBOW	24kV	17-25.5mm

### Separable Connector System for Pin Type B (400 Series) Bushing

#### FEATURES

- Designed to facilitate the easy connection and disconnection of single core copper wire screened XLPE cables to medium voltage transformer and switchgear equipment
- The insulation of the connector is made of a highly modified silicone rubber characterised by high tracking resistance, elongation at break and non flammability
- The screened connector need not be removed for over sheath testing
- The compact design supports the use of double T connections inside standard terminal boxes
- Easily accessible rear plug with capacitive test point
- A thin walled screen is permanently bonded onto the insulation and protects the connection system against accidental contact.
- The screened cable connector exceeds CENELEC HD 629.1S2 requirements, which includes BS, VDE and other international standards.
- The use of mechanical lugs are designed to accept Cu or Al conductors



**Separable connector system for interface B bushing 24-36kV 400A**

Part number	Cross Section	Voltage	Core Insulation Diameter
<b>RSES-6451</b>	70-95mm <sup>2</sup>	24kV	22.4-35.5mm
<b>RSES-6452</b>	95-240mm <sup>2</sup>	24kV	22.4-35.5mm

Part number	Cross Section	Voltage	Core Insulation Diameter
<b>RSES-6455</b>	185-300mm <sup>2</sup>	24kV	22.4-35.5mm

### Separable Connector System for Pin Type B (400 Series) Bushing

#### FEATURES

- Designed to facilitate the easy connection and disconnection of single core copper wire screened XLPE cables to medium voltage transformer and switchgear equipment
- The connectors are manufactured in three layers, a conductive inner layer, an insulation layer and a conductive outer layer
- The materials are vulcanised together to give the best possible interface between layers
- The cable connector includes a capacitive test point with protection and integrated earthing wire
- UV, ozone and tracking resistant
- Supplied with bimetallic mechanical lugs to connect copper and aluminium conductor



**Separable connector system for interface B bushing 12-36kV 400A**

Part number	Conductor Size	Voltage	Core Insulation Diameter
<b>CSE-A 12400-01</b>	25-70mm <sup>2</sup>	12kV	13-20mm
<b>CSE-A 12400-02</b>	95-300mm <sup>2</sup>	12kV	18.5-30.5mm
<b>CSE-A 24400-01</b>	25-70mm <sup>2</sup>	24kV	17-24mm

Part number	Conductor Size	Voltage	Core Insulation Diameter
<b>CSE-A 24400-02</b>	95-300mm <sup>2</sup>	24kV	22.5-35mm
<b>CSE-A 36400-01</b>	25-70mm <sup>2</sup>	36kV	24.5-34mm
<b>CSE-A 36400-02</b>	95-300mm <sup>2</sup>	36kV	27.5-42mm

### Separable Connector System for Bolted Type C (400 Series) Bushing



**Separable connector system for interface C bushing 12-36kV 800A**

#### FEATURES

- Designed to facilitate the easy connection and disconnection of single core copper wire screened XLPE cables to MV transformer and switchgear equipment
- The insulation of the connector is made of a highly modified silicone rubber characterised by high tracking resistance, elongation at break and non flammability
- The screened connector need not be removed for over sheath testing
- The compact design supports the use of double T connections inside standard terminal boxes
- Easily accessible rear plug with capacitive test point
- Available with CU or AL compression lugs or mechanical connectors

Part Number	Conductor size			Core insulation diameter
	11kV	24kV	36kV	
<b>RSTI-5851</b>	35-95mm <sup>2</sup>	35-70mm <sup>2</sup>	-	12.7-23.4mm
<b>RSTI-5852</b>	95-120mm <sup>2</sup>	-	-	12.7-23.4mm
<b>RSTI-5853</b>	95-240mm <sup>2</sup>	95-185mm <sup>2</sup>	-	17.0-30.1mm
<b>RSTI-5854</b>	150-240mm <sup>2</sup>	95-240mm <sup>2</sup>	-	21.2-34.6mm
<b>RSTI-5855</b>	185-300mm <sup>2</sup>	185-300mm <sup>2</sup>	-	21.2-34.6mm
<b>RSTI-5856</b>	240-400mm <sup>2</sup>	-	-	21.2-34.6mm
<b>RSTI-6851</b>	-	-	35-95mm <sup>2</sup>	22.4-35.5mm
<b>RSTI-6852</b>	-	-	95-150mm <sup>2</sup>	22.4-35.5mm
<b>RSTI-6853</b>	-	-	120-240mm <sup>2</sup>	28.9-42.0mm
<b>RSTI-6855</b>	-	-	185-300mm <sup>2</sup>	28.9-42.0mm

### Separable Connector Coupling System for Bolted Type C (400 Series) Bushing



**Coupling connector system for interface C bushing 12-36kV 800A**

#### FEATURES

- Angled prefabricated shielded parallel adapter made of silicone rubber, which does not require heat during installation
- Integrated stress control. Separate termination not required
- Three core kits include materials for core screening. Up to 2000mm tail length
- Test point for capacitive voltage measurement
- Mechanical lugs included, compression lugs on request
- Kits include materials for three phases

Part Number	Conductor size			Core insulation diameter
	11kV	24kV	36kV	
<b>RSTI-CC-5851</b>	35-95mm <sup>2</sup>	35-70mm <sup>2</sup>	-	12.7-23.4mm
<b>RSTI-CC-5852</b>	95-120mm <sup>2</sup>	-	-	12.7-23.4mm
<b>RSTI-CC-5853</b>	95-240mm <sup>2</sup>	95-185mm <sup>2</sup>	-	17.0-30.1mm
<b>RSTI-CC-5854</b>	150-240mm <sup>2</sup>	95-240mm <sup>2</sup>	-	21.2-34.6mm
<b>RSTI-CC-5855</b>	185-300mm <sup>2</sup>	185-300mm <sup>2</sup>	-	21.2-34.6mm
<b>RSTI-CC-5856</b>	240-400mm <sup>2</sup>	-	-	21.2-34.6mm
<b>RSTI-CC-6851</b>	-	-	35-95mm <sup>2</sup>	22.4-35.5mm
<b>RSTI-CC-6852</b>	-	-	95-150mm <sup>2</sup>	22.4-35.5mm
<b>RSTI-CC-6853</b>	-	-	120-240mm <sup>2</sup>	28.9-42.0mm
<b>RSTI-CC-6855</b>	-	-	120-300mm <sup>2</sup>	28.9-42.0mm

### Separable Connector System For Bolted Type C (400 Series) Bushing

#### FEATURES

- Designed to facilitate the easy connection and disconnection of single core copper wire screened XLPE cables to medium voltage transformer and switchgear equipment
- The connectors are manufactured in three layers, a conductive inner layer, an insulation layer and a conductive outer layer
- The materials are vulcanised together to give the best possible interface between layers
- The cable connector includes a capacitive test point with protection and integrated earthing wire
- UV, ozone and tracking resistant
- Available in straight and elbow configuration
- Screen separation kit can be ordered separately for three core cables
- Supplied with bimetallic mechanical lugs to connect copper and aluminium conductor
- The screened cable connector exceeds CENELEC HD 629.52 S1 requirements which includes BS, VDE and other international specifications
- Maximum System Voltage 36kV
- Continuous Current 630A



**Separable connector system for interface C bushing 12-36kV 630A**

Part number	Conductor Size	Voltage	Core Insulation Diameter
<b>CSE-A 12630-01</b>	25-70mm <sup>2</sup>	12kV	13-20mm
<b>CSE-A 12630-02</b>	95-300mm <sup>2</sup>	12kV	18.5-30.5mm
<b>CSE-A 12630-03</b>	400-630mm <sup>2</sup>	12kV	30.5-45mm
<b>CSE-A 24630-01</b>	25-70mm <sup>2</sup>	24kV	17.0-24mm
<b>CSE-A 24630-02</b>	95-300mm <sup>2</sup>	24kV	22.5-35mm

Part number	Conductor Size	Voltage	Core Insulation Diameter
<b>CSE-A 24630-03</b>	400-630mm <sup>2</sup>	24kV	30.5-45mm
<b>CSE-A 36630-01</b>	25-70mm <sup>2</sup>	36kV	24.5-34mm
<b>CSE-A 36630-02</b>	95-300mm <sup>2</sup>	36kV	27.5-42mm
<b>CSE-A 36630-03</b>	400-630mm <sup>2</sup>	36kV	38.0-55mm

### Separable connector coupling system for bolted type C (400series) Bushing

#### FEATURES

- CSEP-A is a screened separable parallel cable connector designed to be connected to a screened separable cable connector type CSE-A-630.
- Can be used with XLPE or EPR insulation
- Supplied with mechanical connectors that can be used with CU or ALI cable conductors
- Screen separation kit can be ordered separately for three core cables
- UV, Ozone and tracking resistant
- The screened cable connector exceeds CENELEC HD 629.1 S1 requirements which includes BS, VDE and other international specifications



**Coupling connector system for interface C bushing 12-36kV 800A**

Part number	Conductor Size	Voltage	Core Insulation Diameter
<b>CSEP-A-12630-01</b>	25-70mm <sup>2</sup>	12kV	13-20mm
<b>CSEP-A-12630-02</b>	95-300mm <sup>2</sup>	12kV	18.5-30.5mm
<b>CSEP-A-12630-03</b>	400-630mm <sup>2</sup>	12kV	30.5-45mm
<b>CSEP-A-24630-01</b>	25-70mm <sup>2</sup>	24kV	17.0-24mm
<b>CSEP-A-24630-02</b>	95-300mm <sup>2</sup>	24kV	22.5-35mm

Part number	Conductor Size	Voltage	Core Insulation Diameter
<b>CSEP-A-24630-03</b>	400-630mm <sup>2</sup>	24kV	30.5-45mm
<b>CSEP-A-36630-01</b>	25-70mm <sup>2</sup>	36kV	24.5-34mm
<b>CSEP-A-36630-02</b>	95-300mm <sup>2</sup>	36kV	27.5-42mm
<b>CSEP-A-36630-03</b>	400-630mm <sup>2</sup>	36kV	38.0-55mm

### Separable connector system for bolted Type D (600 series) Bushing



#### FEATURES

- Designed to connect single core XLPE CWS cables to transformers and switchgear with D type bushing
- 25-630mm<sup>2</sup> conductor size range using mechanical connector
- Fully shielded, submersible and meets the requirements of IEEE std 386
- Moulded T body adapts to all cable and provides a deadfront shielded connection
- Moulded cable adapter, sized to fit cable insulation diameters from 16.3mm to 49.9mm providing stress relief for the terminated cable
- Insulating plug cap fits over insulating plug test point for waterproof seal and deadfront shielding
- Moulded epoxy insulating plug provides excellent electrical, thermal and mechanical reliability
- Available for use with Al/Cu bushing, please specify at time of order
- Tested in accordance with IEEE Std 386 standard. AC 60Hz 1 minute withstand -40kV, minimum partial discharge extinction voltage -19kV

Part Number	Conductor Size	Voltage	Bushing Cu/Al
15BT-W-25/150SH-IPWS	25-150mm <sup>2</sup>	12-24kV	Aluminium
15BT-W-95/300SH-IPWS	95-300mm <sup>2</sup>	12-24kV	Aluminium
15BT-W-400/400SH-IPWS	400mm <sup>2</sup>	12-24kV	Aluminium
15BT-W-500/630SH-IPWS	500-630mm <sup>2</sup>	12-24kV	Aluminium
15BT-W-25/150SH-IPWS(C)	25-150mm <sup>2</sup>	12-24kV	Copper

Part Number	Conductor Size	Voltage	Bushing Cu/Al
15BT-W-25/150SH-IPWS(C)	95-300mm <sup>2</sup>	12-24kV	Copper
15BT-W-25/150SH-IPWS(C)	400mm <sup>2</sup>	12-24kV	Copper
15BT-W-25/150SH-IPWS(C)	500-630mm <sup>2</sup>	12-24kV	Copper

**W will be replaced once core insulation diameter is provided**

### Separable connector system for bolted Type E (700 series) Bushing



#### FEATURES

- Designed to connect single core XLPE CWS cables to transformers and switchgear with E type bushing
- 25-630mm<sup>2</sup> conductor size range using mechanical connector
- Fully shielded, submersible and meets the requirements of IEEE std 386
- Designed to be used on either XLPE or EPR cable insulation
- Moulded cable adapter, sized to fit cable insulation diameters from 22.2mm to 47.6mm providing stress relief for the terminated cable
- Insulating plug cap fits over insulating plug test point for waterproof seal and deadfront shielding
- Moulded epoxy insulating plug provides excellent electrical, thermal and mechanical reliability
- Available for use with Al/Cu bushing, please specify at time of order
- Tested in accordance with IEEE Std 386 standard. AC 60Hz 1 minute withstand -50kV, minimum partial discharge extinction voltage -26kV

Part Number	Conductor Size	Voltage	Bushing Cu/Al
35BT-W-25/150SH-IPWS	25-150mm <sup>2</sup>	12-36kV	Aluminium
35BT-W-95/300SH-IPWS	95-300mm <sup>2</sup>	12-36kV	Aluminium
35BT-W-400/400SH-IPWS	400mm <sup>2</sup>	12-36kV	Aluminium
35BT-W-500/630SH-IPWS	500-630mm <sup>2</sup>	12-36kV	Aluminium
35BT-W-25/150SH-IPWS(C)	25-150mm <sup>2</sup>	12-36kV	Copper

Part Number	Conductor Size	Voltage	Bushing Cu/Al
35BT-W-25/150SH-IPWS(C)	95-300mm <sup>2</sup>	12-36kV	Copper
35BT-W-25/150SH-IPWS(C)	400mm <sup>2</sup>	12-36kV	Copper
35BT-W-25/150SH-IPWS(C)	500-630mm <sup>2</sup>	12-36kV	Copper

**W will be replaced once core insulation diameter is provided**

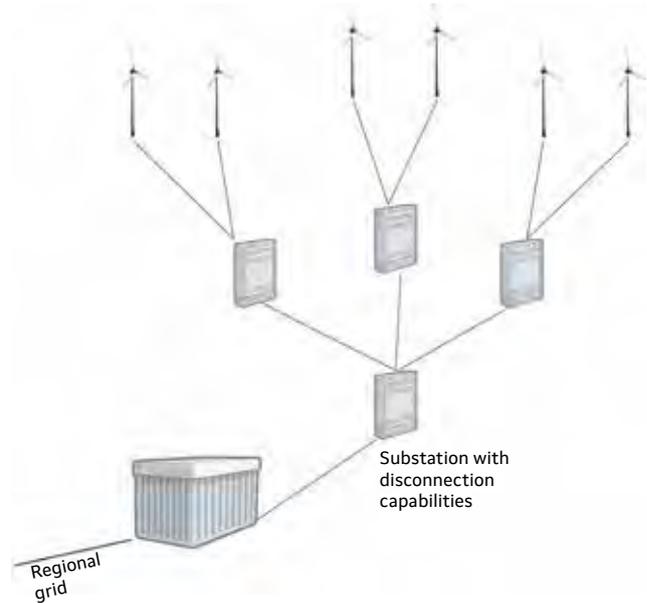
## Kabeldon Cable Cabinets

### APPLICATION

- HDC-A cabinets are excellent for use within wind or solar farm connections. Each cable cabinet can be used as branching points so that separate cables don't need to be run between turbines/solar panels and a substation.

### WIND FARMS: TYPICAL INSTALLATION

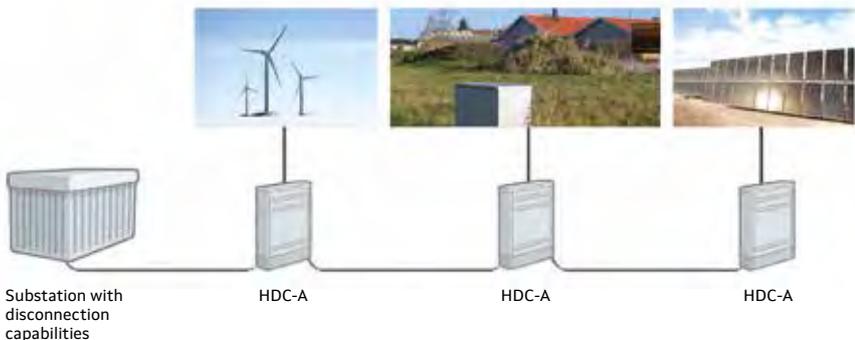
- From each wind turbine three x 1c cables run to a cable cabinet, two wind turbines are connected in each cable cabinet, the cables are terminated using separable connectors. From each of these cable cabinets a third set of cables run to another cabinet where everything is tied together. (See image right)



### BENEFITS

- Because cables are connected in a cabinet they can be sectionalized for maintenance. Disconnected cables can be earthed with special earthing devices and tools.
- Cable cabinets can be surface mounted eliminating the need for excavation of joint bays as the cables are connected using separable connectors.
- Less cable and ground excavation is required due to the fewer links between wind turbines (see image below)

### General diagram for cable grid with HDC-A



### STANDARDS

- Enclosures: Impact testing according to international standards IEC 60439-5
- Separable Connectors: European standard CENELEC HD 629.1 S2



**HDC-A  
24250**



**HDC-A  
24630**



**HDC-A  
36630**

## HDC Cable Cabinet 250A



**HDC cable cabinets to join and branch 1-core and three-core XLPE cables 12-24kV**

### FEATURES

- The enclosure is made of hot dip galvanised sheet steel with foundation base plate
- Additional corrosion protection for buried parts
- The screened separable cable connections are connected by coupling pieces which are mounted in the enclosure
- Any chosen cable can be disconnected for live sectioning or to be earthed
- The cabinet is supplied with padlocks and shackles
- For three core cables, screen separation kits must be used
- The cable cabinet is supplied with 3 x 3 phase kits, separable connectors, capacitive test point included
- Enclosures meet the requirements of mechanical impact tests - IEC 60439-5
- Meets the requirements of electrical tests - SS424 14 45
- Cenelec: HD 629.1 S1

Part number	Voltage	Conductor Size
<b>HDC-A 12250</b>	12kV	25-95mm <sup>2</sup>

Part number	Voltage	Conductor Size
<b>HDC-A 24250</b>	24kV	25-95mm <sup>2</sup>

## HDC Cable Cabinet 630A



**HDC cable cabinets to join and branch 1-core and three-core XLPE cables 12-36kV**

### FEATURES

- The enclosure is made of hot dip galvanised sheet steel with foundation base plate
- Additional corrosion protection for buried parts
- The screened separable cable connections are connected by coupling pieces which are mounted in the enclosure
- When branching parallel connector PC630 is required
- Any chosen cable can be disconnected for live sectioning or to be earthed
- The cabinet is supplied with padlocks and shackles
- For three core cables, screen separation kits must be used
- The cable cabinet is supplied with 2 x 3 phase kits, separable connectors, capacitive test point included
- Enclosures meet the requirements of mechanical impact tests - IEC 60439-5
- Meets the requirements of electrical tests - SS424 14 45
- Cenelec: HD 629.1 S1

Part number	Voltage	Conductor Size
<b>HDC-A 12630-01</b>	12kV	25-70mm <sup>2</sup>
<b>HDC-A 12630-02</b>	12kV	95-300mm <sup>2</sup>
<b>HDC-A 12630-03</b>	12kV	400-630mm <sup>2</sup>
<b>HDC-A 24630-01</b>	24kV	25-70mm <sup>2</sup>
<b>HDC-A 24630-02</b>	24kV	95-300mm <sup>2</sup>

Part number	Voltage	Conductor Size
<b>HDC-A 24630-03</b>	24kV	400-630mm <sup>2</sup>
<b>HDC-A 36630-01</b>	36kV	50-70mm <sup>2</sup>
<b>HDC-A 36630-02</b>	36kV	95-300mm <sup>2</sup>
<b>HDC-A 36630-03</b>	36kV	400-630mm <sup>2</sup>

Part number	Description
<b>PSSK 1</b>	Screen Separation kit (25-70mm <sup>2</sup> 11kV, 25-35mm <sup>2</sup> 24kV)
<b>PSSK 2</b>	Screen Separation kit (95-300mm <sup>2</sup> 11kV, 50-300mm <sup>2</sup> 24kV)
<b>PC 630/250</b>	Parallel Connector

Part number	Description
<b>IP 250</b>	Screened Insulation Plug
<b>MA 250</b>	Measurement Adaptor
<b>KA 250</b>	Transversal Anchor Bar
<b>UKRA 90</b>	Clamp for Fixing Cables

## Pfisterer Connex Cable Termination System

### FEATURES

- The “Plug In” connector employs an insulated silicone bushing to control the electrical field present when the cable screen is removed
- Heat shrinkable sleeve provides a moisture barrier between the cable sheath and the alloy housing of the connector
- The termination is completed by plugging into the equipment and taking the cable screen to earth
- Sold in sets of three phases
- Installation tooling available to buy or hire
- Training courses available
- Designed to meet the requirements of EN 50180, 50181, DIN 47637 and are suitable for all cables to IEC 502 with graphite coated, bonded or “Easy Peel” semi-conducting screens
- System can be buried and utilised off shore (Special variant required)
- Suitable for Class 5 cores, 3 core cables, armoured cables



**Connex Plug in System for size 0, 1, 2, 3, 3S, 4, 5S, 6 & 6S**

Cone Size	Part number	Max Voltage	Max Current	Cross Section	Dia Core Insulation	Voltage Tap
SIZE 0	870-01X-XXX	12kV	250A	25 - 70mm <sup>2</sup>	12.7mm - 23.5mm	NO
SIZE 0	870-02X-XXX	24kV	250A	25 - 70mm <sup>2</sup>	12.7mm - 23.5mm	NO
SIZE 1	870-11X-XXX	12kV	630A	25 - 240mm <sup>2</sup>	13.5mm - 36.0mm	NO
SIZE 1	870-12X-XXX	24kV	630A	25 - 240mm <sup>2</sup>	13.5mm - 36.0mm	NO
SIZE 1	870-13X-XXX	36kV	630A	25 - 240mm <sup>2</sup>	13.5mm - 36.0mm	NO
SIZE 1	850-11X-XXX	12kV	630A	25 - 240mm <sup>2</sup>	13.5mm - 31.5mm	YES
SIZE 1	850-12X-XXX	24kV	630A	25 - 240mm <sup>2</sup>	13.5mm - 31.5mm	YES
SIZE 1	850-13X-XXX	36kV	630A	25 - 240mm <sup>2</sup>	13.5mm - 31.5mm	YES
SIZE 2	870-21X-XXX	12kV	800A	25 - 400mm <sup>2</sup>	13.5mm - 44.0mm	NO
SIZE 2	870-22X-XXX	24kV	800A	25 - 400mm <sup>2</sup>	13.5mm - 44.0mm	NO
SIZE 2	870-23X-XXX	42kV	800A	25 - 400mm <sup>2</sup>	13.5mm - 44.0mm	NO
SIZE 2	850-21X-XXX	12kV	800A	25 - 400mm <sup>2</sup>	13.5mm - 36.0mm	YES
SIZE 2	850-22X-XXX	24kV	800A	25 - 400mm <sup>2</sup>	13.5mm - 36.0mm	YES
SIZE 2	850-23X-XXX	42kV	800A	25 - 400mm <sup>2</sup>	13.5mm - 36.0mm	YES
SIZE 3	870-31X-XXX	12kV	1250A	35 - 800mm <sup>2</sup>	15.5mm - 46.0mm	NO
SIZE 3	870-32X-XXX	24kV	1250A	35 - 800mm <sup>2</sup>	15.5mm - 46.0mm	NO
SIZE 3	870-33X-XXX	42kV	1250A	35 - 800mm <sup>2</sup>	15.5mm - 46.0mm	NO
SIZE 3	850-31X-XXX	12kV	1250A	35 - 800mm <sup>2</sup>	15.5mm - 46.0mm	YES
SIZE 3	850-32X-XXX	24kV	1250A	35 - 800mm <sup>2</sup>	15.5mm - 46.0mm	YES
SIZE 3	870-33X-XXX	42kV	1250A	35 - 800mm <sup>2</sup>	15.5mm - 46.0mm	YES
SIZE 3S	850-350-XXX	52kV	1250A	35 - 800mm <sup>2</sup>	15.5mm - 55.0mm	NO
SIZE 3XL	870-335-XXX	42kV	1250A	240 - 800mm <sup>2</sup>	46.0mm - 55.0mm	NO

Part number	Description	Info	For use with cone size
827-150-005	Dummy Cable Connector	For Sealing And Voltage Proof Closing Of Connex Connectors	Size 0
827-150-002	Dummy Cable Connector	For Sealing And Voltage Proof Closing Of Connex Connectors	Size 1
827-150-003	Dummy Cable Connector	For Sealing And Voltage Proof Closing Of Connex Connectors	Size 2
827-150-004	Dummy Cable Connector	For Sealing And Voltage Proof Closing Of Connex Connectors	Size 3
827-134-004	Protecting Cap	For Protecting Withdrawn Connex Connectors Against Dirt	Size 0
827-134-001	Protecting Cap	For Protecting Withdrawn Connex Connectors Against Dirt	Size 1
827-134-002	Protecting Cap	For Protecting Withdrawn Connex Connectors Against Dirt	Size 2
827-134-003	Protecting Cap	For Protecting Withdrawn Connex Connectors Against Dirt	Size 3

### APED 36 P Composite and APED 52 Porcelain Termination

#### FEATURES

- Designed to terminate 52kV single core XLPE cables where the termination is to be used as fixed connection point and for installations where there is a risk of very high continuous creepage currents
- Can be assembled horizontally on the ground before installation
- Will cater for cable sizes from 95-1200mm<sup>2</sup>
- The composite termination is lightweight and shatter resistant
- The termination consists of porcelain or composite insulator installed on a box body made of aluminium casting

Part number	Insulator	Cable Size	Core Insulation Diameter	Voltage
APED36P	Composite	95-1200mm <sup>2</sup>	25-66mm	36kV
APED52B	Porcelain	95-1200mm <sup>2</sup>	25-66mm	52kV

#### 1. Top Bolt

Bolt connection technology. Made from aluminium or tin plated copper.

#### 2. Top Cover

Made from aluminium alloy, fastened with bolt and ring halves, and sealed with O-rings.

#### 3. Insulator

Grey composite or brown porcelain insulator. The composite insulator with silicone rubber has a low weight and the silicone rubber has a naturally hydrophobic surface which decreases the risk of leakage currents.

#### 4. Filling Compound

Polybutene oil, volume is 2 litres.

#### 5. Stress relief cone

The stress relief cone is made from EPDM and designed for geometric field control.

#### 6. Box Body

Robust aluminium construction with individual clamps or bolts to secure the insulator. Sealed with an O-ring.

#### 7. Earth Clamp

The earth clamp is made from nickle-plated brass and clamped with stainless steel bolts. The earth clamp has a rated cross section of 300mm<sup>2</sup>.

#### 8. Cable Clamp

Made from aluminium alloy. The clamp secures the cable in a fixed position.



#### Main Technical Data

Electrical data, IEC standard 60840	Voltage kV	
Highest voltage for equipment, U <sub>2</sub>	36	52
Rate voltage, U	30-33	45-47
Value of U <sub>2</sub> for determination of test V	21	26
Heating cycle voltage test, 2U <sub>2</sub>	36	52
Partial discharges test <5pC, 1.5U <sub>2</sub>	27	39
Switching impulse voltage test	NA	NA
Lighting impulse voltage test, BIL	±170	±250
AC voltage test, 2.5U <sub>2</sub>	57	65
Measurement of loss factor, U <sub>2</sub>	21	26

### OHVT Heat Shrink Terminations for XLPE CWS cables

#### FEATURES

- TE Connectivity outdoor termination for trackside applications.
- Supplied without a lug
- Compact and modular design
- Water and corrosion resistant
- Different creepage distances available
- Full PADS approval
- Suitable for crimp or mechanical lugs
- Unlimited shelf life under normal storage conditions
- Tested in accordance to IEEE 48 and IEC 60840
- Manufactured according to ISO 9001 and ISO14001



**OHVT Heat Shrink Termination**

Part number	Cable Size	Diameter Over Insulation	Termination Length	Creepage Distance	Number of Sheds
<b>OHVT-5212</b>	95-300mm <sup>2</sup>	30-45mm	850mm	1430mm	4
<b>OHVT-5213</b>	240-630mm <sup>2</sup>	38-55mm	850mm	1430mm	4

### 95-EB and 95-EP Cold Shrink Terminations for XLPE CWS cables

#### FEATURES

- The versatile design of the prefabricated one-piece cold shrink termination body allows installation on a wide range of cable sizes and types.
- No heat or flame is needed during installation
- No special tools needed during installation
- Suitable for crimp and mechanical lugs
- Full PADS approval
- Shelf life of QT111 series terminations is specified as three years
- Terminations meet and exceed European standard IEC60840



**Cold Shrink Terminations for XLPE CWS cables**

Part number	Cable Size	Diameter Over Insulation	Maximum Diameter Over Lug	Part number	Cable Size	Diameter Over Insulation	Maximum Diameter Over Lug
<b>95-EB62-2</b>	70-400mm <sup>2</sup>	33.0-53.0mm	53mm	<b>95-EP631-2</b>	240-400mm <sup>2</sup>	38.6-51.0mm	51mm

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**THE POWER TO DELIVER**

# MV Joints

## Contents



11kV Resin Joints	<b>130</b>
11kV Heat Shrink Joints	<b>133</b>
11kV Heat Shrink/Cold Shrink Joints	<b>134</b>
33kV Heat Shrink Joints	<b>136</b>
33kV Heat Shrink/Cold Shrink Joints	<b>138</b>
33kV Cold Shrink Joints	<b>139</b>
52kV Heat Shrink/Cold Shrink Joints	<b>141</b>

## Inline Universal Jointing System for XLPE/PILC/PICAS Three Core Cables

### FEATURES

- Designed to provide a universal system for three core 11kV inline and transition jointing of polymeric or paper cables in one kit.
- Highly reliable UK industry standard joint
- Proven in service with UK REC's since 1991
- 1402 FR resin can be added to this kit for petrochemical environments
- Kit includes: stress control tubes, mechanical connectors, insulating sleeves, armour continuity, plastic shell and two part LDPU resin
- Tested in accordance with CENELEC specification HD 629 or IEC 60502-4 for joints



**Shrinkset - Inline universal jointing system for any combination of three core XLPE/PILC/PICAS cables**

Part number	Conductor Size	To Suit	Resin Volume
<b>SHSS-12A-IND</b>	35-185mm <sup>2</sup> Poly - 70-185mm <sup>2</sup> Paper	-	14 litres
<b>SHSS-12B-IND</b>	185-300mm <sup>2</sup> Poly - 185-300mm <sup>2</sup> Paper	-	28 litres
<b>BU1 - SMOE 61745</b>	16-25mm <sup>2</sup> Poly - 16-50mm <sup>2</sup> Paper	Use with SHSS-12-A	-
<b>BU2 - SMOE 61760</b>	95-150mm <sup>2</sup> Poly - 95-150mm <sup>2</sup> Paper	Use with SHSS-12-B	-
<b>BU3 - SMOE 61798</b>	16-70mm <sup>2</sup> Poly - 16-70mm <sup>2</sup> Paper	Use with SHSS-12-B	-

## Inline Joints for Three Core Armoured XLPE/PILC/PICAS Cables

### FEATURES

- The versatile design of the prefabricated one-piece cold shrink splice body allows installation on a wide range of cable sizes and types and a fast and easy installation at temperatures ranging from -20 to +50°C
- No heat or flame needed during splice body installation
- Mechanical connectors provide quick and easy installation
- No special tools are needed during splice installation
- Thick walled EPDM rubber cold shrink outer re-jacketing tubes provide mechanical protection and moisture sealing of the completed inline joints
- Outer protection using Scotchcast resin provides options to install in zones 1 and 2 hazardous areas, as well as protection for PILC/PICAS cables
- Different sized cables can be joined using build up kits



**Cold Shrink joint to join any combination of three core cables**

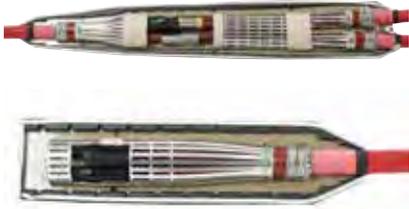
Part number	Joint Type	Outer Protection	Conductor Size
<b>92-AV610-3/C</b>	XLPE Straight	See below	50-120mm <sup>2</sup>
<b>92-AV620-3/C</b>	XLPE Straight	See below	150-240mm <sup>2</sup>
<b>92-AV630-3/C</b>	XLPE Straight	See below	240-400mm <sup>2</sup>
<b>92-AV610-3/C+1 x PILC1</b>	XLPE to PILC/PICAS	See below	50-120mm <sup>2</sup>
<b>92-AV620-3/C+1 x PILC2</b>	XLPE to PILC/PICAS	See below	150-240mm <sup>2</sup>
<b>92-AV630-3/C+1 x PILC3</b>	XLPE to PILC/PICAS	See below	240-400mm <sup>2</sup>
<b>92-AV610-3/C+2 x PILC1</b>	PILC/PICAS Straight Joint	See below	50-120mm <sup>2</sup>
<b>92-AV620-3/C+2 x PILC2</b>	PILC/PICAS Straight Joint	See below	150-240mm <sup>2</sup>
<b>92-AV630-3/C+2 x PILC3</b>	PILC/PICAS Straight Joint	See below	240-400mm <sup>2</sup>

### Outer Protection Sleeve/Shell

Part number	Protection Type	To Suit	Resin Volume
<b>CS610-3</b>	Cold Shrink Tube	92-AV610-3/C	-
<b>CS620-3</b>	Cold Shrink Tube	92-AV620-3/C	-
<b>CS630-3</b>	Cold Shrink Tube	92-AV630-3/C	-
<b>1451</b>	Moulded Shell	92-AV610-3/C & 92-AV620-3/C	14 litres
<b>1452</b>	Moulded Shell	92-AV630-3/C	21 litres



**Branch/Pot End Universal Jointing System for XLPE/PILC/PICAS Three Core Cables**



**Shrinkset - Branch universal jointing system for any combination of three core XLPE/PILC/PICAS cables**

**FEATURES**

- Designed to provide a universal system for three core 11kV branch jointing of polymeric or paper cables in one kit
- 1402 FR resin can be added to this kit for petrochemical environments
- Kit includes: stress control tubes, mechanical connectors, insulating sleeves, armour continuity and plastic shell
- Two part LDPU resin available for purchase
- Tested in accordance with CENELEC specification HD 629.1 or IEC 60502-4 for joints
- Proven and in service with UK electricity boards since 1991
- Build up kits can be used for smaller conductor sizes and large size transitions
- Approved to electricity association specification ER C90

Part number	Conductor Size	To Suit	Resin Volume
<b>SMOE61987 (branch joint)</b>	35-185mm <sup>2</sup> Poly - 95-185mm <sup>2</sup> Paper	-	42 litres
<b>SMOE61988 (branch joint)</b>	185-300mm <sup>2</sup> Poly - 185-300mm <sup>2</sup> Paper	-	49 litres
<b>SMOE62668 (pot end)</b>	95-300mm <sup>2</sup>		14 litres
<b>BU1 - SMOE 61745</b>	16-25mm <sup>2</sup> Poly - 16-50mm <sup>2</sup> Paper	SMOE61987/SMOE62668	-
<b>BU2 - SMOE 61760</b>	95-150mm <sup>2</sup> Poly - 95-150mm <sup>2</sup> Paper	SMOE61988	-
<b>BU3 - SMOE 61798</b>	16-70mm <sup>2</sup> Poly - 16-70mm <sup>2</sup> Paper	SMOE61988/SMOE62668	-

**Trifurcating Joint**



**Trifurcating joint for three core XLPE to 3 x single core XLPE**

**FEATURES**

- Designed to join three core XLPE/CTS/SWA to 3 x single core XLPE CWS unarmoured cables
- A resin filled joint for extra mechanical protection
- Will cover cables from 70-300mm<sup>2</sup>
- Kits consists of all tubing, earth kits, connector and shell

Part number	Cable Size	Part number	Cable Size
<b>SMOE63180</b>	70-185mm <sup>2</sup>	<b>SMOE63181</b>	185-300mm <sup>2</sup>

**Trifurcating Transition Joint**



**Trif/Trans joint for three core PILC/PICAS to 3 x single core XLPE CWS unarmoured cables**

**FEATURES**

- Designed to join 3core PILC/PICAS/SWA to 3 x 1c XLPE CWS unarmoured cables
- A resin filled joint for extra mechanical protection
- Will cover cables from 70-300mm<sup>2</sup>
- Kits consists of all tubing, earth kits, connector and shell

Part number	Cable Size	Part number	Cable Size
<b>SMOE63410</b>	70-185mm <sup>2</sup>	<b>SMOE63411</b>	185-300mm <sup>2</sup>

## Lovisil Silicon Filled Resin Joints

### FEATURES

- Lovisil cable joints are suitable for use on paper-insulated (PILC or PICAS) and polymeric (XLPE or EPR) cables
- The electrical insulation is inside a polyester inner joint provided by the combination of polymeric tube set (primary insulation) and high grade silicon based compound
- Mechanical protection is provided by a ABS outer joint shell filled with a two-part polyurethane resin
- When the silicon comes into contact with water it reacts to form a soft and perfectly insulating rubber, this creates a seal that prevents any further ingress of moisture
- Suitable for all types of connectors, both mechanical and crimp can be used up to 24kV
- Joints also available in single cores, branch and loop formations
- Kit consists of base module, cable modules, resin and connectors

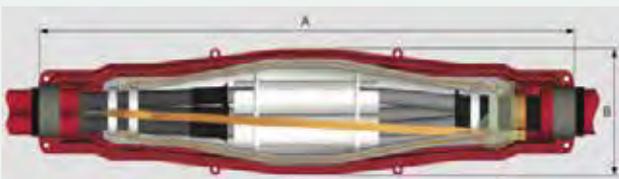


Part number	Description
<b>MJ-LOV-A-TX</b>	95mm <sup>2</sup> Triplex Straight Joint (all in 1 shell)
<b>MJ-LOV-A-TX</b>	185mm <sup>2</sup> Triplex Straight Joint (all in 1 shell)
<b>MJ-LOV-B-TX</b>	300mm <sup>2</sup> Triplex Straight Joint (all in 1 shell)
<b>MJ-LOV-A-TX-XU</b>	95mm <sup>2</sup> Triplex to 95mm <sup>2</sup> 3c XLPE collective CWS
<b>MJ-LOV-A-TX-XU</b>	185mm <sup>2</sup> Triplex to 185mm <sup>2</sup> 3c XLPE collective CWS
<b>MJ-LOV-B-TX-XU</b>	300mm <sup>2</sup> Triplex to 300mm <sup>2</sup> 3c XLPE collective CWS
<b>MJ-LOV-A-TX-XU</b>	95mm <sup>2</sup> Triplex to 185mm <sup>2</sup> 3c XLPE collective CWS
<b>MJ-LOV-A/B-TX-XU</b>	95mm <sup>2</sup> Triplex to 300mm <sup>2</sup> 3c XLPE collective CWS
<b>MJ-LOV-A/B-TX-XU</b>	185mm <sup>2</sup> Triplex to 300mm <sup>2</sup> 3c XLPE collective CWS

Part number	Description
<b>MJ-LOV-A-TX-XA</b>	95mm <sup>2</sup> Triplex to 95mm <sup>2</sup> 3c XLPE/CTS/SWA
<b>MJ-LOV-A-TX-XA</b>	185mm <sup>2</sup> Triplex to 185mm <sup>2</sup> 3c XLPE/CTS/SWA
<b>MJ-LOV-B-TX-XA</b>	300mm <sup>2</sup> Triplex to 300mm <sup>2</sup> 3c XLPE/CTS/SWA
<b>MJ-LOV-A-TX-XA</b>	95mm <sup>2</sup> Triplex to 185mm <sup>2</sup> 3c XLPE/CTS/SWA
<b>MJ-LOV-A/B-TX-XA</b>	95mm <sup>2</sup> Triplex to 300mm <sup>2</sup> 3c XLPE/CTS/SWA
<b>MJ-LOV-A/B-TX-XA</b>	185mm <sup>2</sup> Triplex to 300mm <sup>2</sup> 3c XLPE/CTS/SWA
<b>MJ-LOV-A-TX-PI</b>	95mm <sup>2</sup> Triplex to 95mm <sup>2</sup> 3c PILC/SWA or PICAS
<b>MJ-LOV-A-TX-PI</b>	185mm <sup>2</sup> Triplex to 185mm <sup>2</sup> 3c PILC/SWA or PICAS
<b>MJ-LOV-B-TX-PI</b>	300mm <sup>2</sup> Triplex to 300mm <sup>2</sup> 3c PILC/SWA or PICAS

**All above complete with resin and connectors**

### Resin Joint Details



Part Number	Dimensions	
	A (mm)	B (mm)
MJ-LOV-A	1055	226.5
MJ-LOV-A	1343	267
MJ-LOV-A	1343	267



**Inline Joints for Single Core Unarmoured XLPE Cables c/w Mechanical Connectors**



**Inline heat shrink joints for single core unarmoured XLPE cables**

**FEATURES**

- Designed to join inline single core 11kV unarmoured XLPE cables
- Highly reliable UK industry standard joint
- Unlimited shelf life
- Kit contents: Stress control and insulation tubing, wire shield, outer Heat Shrink sleeving, mechanical connectors, void, stress and moisture tapes
- Tested in accordance with CENELEC specification HD 629.1 or IEC 60502-4 for joints
- Network Rail Approved

Part number	Conductor Size	Part number	Conductor Size
MXSU-3111	25-95mm <sup>2</sup>	MXSU-3151	500mm <sup>2</sup>
MXSU-3121	70-150mm <sup>2</sup>	MXSU-3161	630mm <sup>2</sup>
MXSU-3131	95-240mm <sup>2</sup>	MXSU-3171	800mm <sup>2</sup>
MXSU-3141	240-400mm <sup>2</sup>	MXSU-3181	1000mm <sup>2</sup>



**Size Transition Joints for Single Core Unarmoured XLPE Cables Heat Shrink Mechanical Connectors**



**Inline heat shrink size transition joints for single core unarmoured XLPE cables**

**FEATURES**

- Designed to join 11kV single core cables with large size transitions
- Unlimited shelf life
- Tested in accordance with CENELEC specification
- Kit contents: Stress control and insulation tubing, wire shield, outer Heat Shrink sleeving, mechanical connectors, void, stress and moisture tapes
- Unlimited shelf life
- Tested in accordance with CENELEC specification HD 629.1 or IEC 60502-4 for joints

Part number	Conductor Size	Part number	Conductor Size
MXSU-3131-T2	25-95mm <sup>2</sup> - 95-240mm <sup>2</sup>	MXSU-3161-T7	185-400mm <sup>2</sup> - 630mm <sup>2</sup>
MXSU-3141-T2	95-240mm <sup>2</sup> - 185-400mm <sup>2</sup>	MXSU-3181-T8	630mm - 1000mm <sup>2</sup>
MXSU-3151-T6	185-400mm <sup>2</sup> - 500mm <sup>2</sup>		



**Inline Joints for Single Core Unarmoured XLPE Cables**



**Inline heat shrink joints for single core unarmoured XLPE cables**

**FEATURES**

- Designed to join inline single core 11kV unarmoured XLPE cables
- Highly reliable UK industry standard joint
- Can be used with crimp and mechanical connectors
- Kit contents: Stress control and insulation tubing, wire shield, outer heat shrink sleeving, void, stress and moisture tapes
- Tested in accordance with CENELEC specification HD 629.1 or IEC 60502-4 for joints
- Network Rail Approved

Part number	Conductor Size	Part number	Conductor Size
SXSU-3111	35-70mm <sup>2</sup>	SXSU-3131	185-300mm <sup>2</sup>
SXSU-3121	95-185mm <sup>2</sup>	SXSU-3141	300-500mm <sup>2</sup>



## Inline Joints for 11kV Single Core Unarmoured XLPE Cables c/w Mechanical Connectors

### FEATURES

- Designed to join inline single core 11kV unarmoured XLPE cable in “All in One” kit including mechanical connector
- Joint body, earthing system and re-jacketing pre-expanded on one holdout system
- Single piece silicone rubber joint body with high mechanical expansion capability allows a wide application range which enables smaller range of product to be stocked
- Short parking distance required
- Electrical stress control of the screen cut area by integrated conductive geometrical stress cones
- Electrical stress control of the connector is by an integrated screened connection area (Faraday Cage)
- Kit contents: Stress control and insulation tubing, wire shield, outer cold shrink sleeving, void, stress and moisture tapes
- For use on solid conductors please contact your nearest sales office
- Joint exceeds CENELEC HD 629.1 which includes IEC, BS, VDE and other international specifications
- Network Rail approved



**Inline cold shrink joints for 11kV single core unarmoured XLPE cables**

Part number	Application Range	Diameter over core insulation	Diameter over outer sheath
CSJA-12B/1XU-1XU-M	95-240mm <sup>2</sup>	18.6-28.4mm	26.0-39.0mm
CSJA-12C/1XU-1XU-M	185-300mm <sup>2</sup>	23.2-32.6mm	30.0-44.0mm
CSJA-12D/1XU-1XU-M	240-400mm <sup>2</sup>	25.7-33.6mm	33.0-45.0mm
CSJA-12E/1XU-1XU-M1	500mm <sup>2</sup>	34.4-36.2mm	43.0-48.0mm
CSJA-12E/1XU-1XU-M2	630mm <sup>2</sup>	38.0-40.0mm	47.0-52.0mm

## Cold Shrink Single Core Inline Joint for XLPE CWS c/w Mechanical Connectors

### FEATURES

- Prefabrication one-piece cold shrink joint allows installation on a wide range of cable sizes
- No heat or flame is needed during splice body installation
- Joint comes complete with a mechanical connector
- EPDM thick wall outer jacket provides good mechanical protection



**Inline cold shrink joints for 11kV single core unarmoured XLPE cables**

Part number	Conductor Size	Part number	Conductor Size
92-AK610-I/C	50-150mm <sup>2</sup>	92-AK630-I/C	300-630mm <sup>2</sup>
92-AK620-I/C	95-300mm <sup>2</sup>	92-AK632-I/C	800-1000mm <sup>2</sup>

## Inline Joints for Single Core Aluminium Wire Armoured XLPE Cables

### FEATURES

- Designed to join inline single core 11kV aluminium wire armoured XLPE cables.
- Highly reliable UK industry standard joint.
- Kit contents: Stress control and insulation tubing, wire shield, outer heat shrink sleeving, void, stress and moisture tapes
- Tested in accordance with CENELEC specification HD 629.1 or IEC 60502-4 for joints



**Inline heat shrink joints for single core aluminium wire armoured XLPE cables**

Part number	Conductor Size	Part number	Conductor Size
SXAW-3121	95-185mm <sup>2</sup>	SXAW-3141	400-500mm <sup>2</sup>
SXAW-3131	185-300mm <sup>2</sup>	SXAW-3151	630-800mm <sup>2</sup>

**Cold Shrink Single Core Inline Joint for XLPE/CTS/AWA c/w Mechanical Connectors**



**Single core cold shrink straight joint for armoured cables**

**FEATURES**

- Prefabrication one-piece cold shrink joint allows installation on a wide range of cable sizes
- No heat or flame is needed during splice body installation
- Joint comes complete with a mechanical connector
- EPDM thick wall outer jacket provides good mechanical protection

Part number	Conductor Size	Part number	Conductor Size
92-AK612-1/C	70-150mm <sup>2</sup>	92-AK623-1/C	300-400mm <sup>2</sup>
92-AK622-1/C	150-240mm <sup>2</sup>	92-AK633-1/C	500-630mm <sup>2</sup>

**MXSB Branch Joint Range c/w Mechanical Connectors**



**Single core heat shrink branch joint for unarmoured cables**

**FEATURES**

- Heat Shrink branch joint for XLPE CWS cables c/w mechanical connector
- The design of the connector enables the user to connect different size conductors
- Immediate service after installation
- The complete kit has been tested to meet Raychem performance standards according to CENELEC HD629.1S2

Part number	Conductor Size	Part number	Conductor Size
MXSB-12A-1XU-2XU	35-95mm <sup>2</sup>	MXSB-12C-1XU-2XU	150-300mm <sup>2</sup>
MXSB-12B-1XU-2XU	70-185mm <sup>2</sup>		

**MXSW 3 Core XLPE SWA Range of Joints c/w Mechanical Connectors**



**Three core heat shrink joint XLPE armoured cables**

**FEATURES**

- Designed to joint three core XLPE/CTS/SWA cables
- The design of the connector enables the user to connect different size conductors
- Immediate service after installation
- The complete kit has been tested to meet Raychem's performance standards according to CENELEC HD629.1S2

Part number	Conductor Size	Part number	Conductor Size
MXSW-3311-GB01	35-95mm <sup>2</sup>	MXSW-3332	150-300mm <sup>2</sup>
MXSW-3331	95-240mm <sup>2</sup>		

## Heat Shrink Single Core Inline Joint for PILC Cables

### FEATURES

- Designed to join inline single core 33kV PILC cables
- Highly reliable UK industry standard joint
- Unlimited shelf life
- Kit contents: Void filling tapes, stress control and insulation tubing, wire armour continuity, outer sealing sleeves
- Tested in accordance with CENELEC specification HD 629.1 or IEC 60502-4 for joints



**Heat shrink straight joint for 33kV paper insulated lead covered cables**

Part number	Conductor Size
EPKJ 36A-1HL-1HL	50-70mm <sup>2</sup>
EPKJ 36B-1HL-1HL	95-150mm <sup>2</sup>

Part number	Conductor Size
EPKJ 36C-1HL-1HL	185-400mm <sup>2</sup>
EPKJ 36D-1HL-1HL	500-630mm <sup>2</sup>

## Transition Joints for Single Core XLPE to PILC Cable

### FEATURES

- Designed to join inline single core 33kV XLPE to PILC cables
- Highly reliable UK industry standard joint
- Unlimited shelf life
- Kit contents: Void filling tapes, stress control and insulating tubing, outer sealing sleeve
- Tested in accordance with CENELEC specification HD 629.1 or IEC 60502-4 for joints
- Network Rail Approved



**Heat shrink transition joints for single core XLPE to PILC cables**

Part number	Conductor Size
EPKJ 36A-1XU-1HL	50-70mm <sup>2</sup>
EPKJ 36B-1XU-1HL	95-150mm <sup>2</sup>

Part number	Conductor Size
EPKT 36C-1XU-1HL	185-400mm <sup>2</sup>
EPKJ 36D-1XU-1HL	500-630mm <sup>2</sup>

## Inline Joints for Three Core Screened XLPE Cables

### FEATURES

- Designed to join inline three core screened 33kV XLPE cables
- Highly reliable UK industry standard joint
- Unlimited shelf life
- Kit contents: Void filling tapes, stress control and insulating tubings, wire armour continuity, outer sealing sleeves
- Tested in accordance with CENELEC specification HD 629.1 or IEC 60502-4 for joints



**Heat shrink inline joints for three core steel wire armoured cables**

Part number	Conductor Size
EPKJ 36A-3XU-3XU-W	50-70mm <sup>2</sup>
EPKJ 36B-3XU-3XU-W	95-150mm <sup>2</sup>

Part number	Conductor Size
EPKJ 36C-3XU-3XU-W	185-400mm <sup>2</sup>





**Inline Joints for Single Core Unarmoured XLPE Cables c/w Mechanical Connectors**



**Inline heat shrink joints for single core unarmoured XLPE cables, connectors inc**

**FEATURES**

- Designed to join inline single core 33kV unarmoured XLPE cables
- Kit contents: Stress control and insulation tubing, wire shield, outer Heat Shrink sleeving, mechanical connectors, void, stress and moisture tapes
- Tested in accordance with CENELEC specification HD 629 or IEC 60502-4 for joints
- Network Rail Approved

Part number	Conductor Size
<b>MXSU-6111</b>	35-95mm <sup>2</sup>
<b>MXSU-6121</b>	70-150mm <sup>2</sup>
<b>MXSU-6131</b>	150-300mm <sup>2</sup>
<b>MXSU-6141</b>	240-400mm <sup>2</sup>

Part number	Conductor Size
<b>MXSU-6151</b>	500mm <sup>2</sup>
<b>MXSU-6161</b>	630mm <sup>2</sup>
<b>MXSU-6171</b>	800mm <sup>2</sup>



**Size Transition Joints for Single Core Unarmoured XLPE Cables c/w Mechanical Connectors**



**Inline heat shrink joints for single core unarmoured XLPE cables**

**FEATURES**

- Designed to join inline single core 33kV unarmoured XLPE cables
- Unlimited shelf life
- Kit contents: Stress control and insulation tubing, wire shield, outer Heat Shrink sleeving, mechanical connectors, void, stress and moisture tapes
- Tested in accordance with CENELEC specification HD 629.1 or IEC 60502-4 for joints

Part number	Conductor Size
<b>MXSU-6141-T4</b>	95-240mm <sup>2</sup> - 240-400mm <sup>2</sup>
<b>MXSU-6151-T6</b>	185-400mm <sup>2</sup> - 500mm <sup>2</sup>
<b>MXSU-6161-T6</b>	185-400mm <sup>2</sup> - 630mm <sup>2</sup>

Part number	Conductor Size
<b>MXSU-6161-T7</b>	500mm - 630mm <sup>2</sup>
<b>MXSU-6171-T8</b>	630mm <sup>2</sup> - 800mm <sup>2</sup>
<b>MXSU-6181-T8</b>	630mm - 1000mm <sup>2</sup>



**Inline Joints for Single Core Unarmoured XLPE Cables**



**Inline heat shrink joints for single core unarmoured XLPE cables**

**FEATURES**

- Designed to join inline single core 33kV unarmoured XLPE cables
- Highly reliable UK industry standard joint
- Mechanical or crimp connectors available on request
- Unlimited shelf life
- Kit contents: Stress control and insulation tubing, wire shield, outer Heat Shrink sleeving, void, stress and moisture tapes
- Tested in accordance with CENELEC specification HD 629.1 or IEC 60502-4 for joints
- Network Rail Approved

Part number	Conductor Size
<b>SXSU-6122</b>	35-150mm <sup>2</sup>
<b>SXSU-6132</b>	150-300mm <sup>2</sup>
<b>SXSU-6141</b>	185-400mm <sup>2</sup>

Part number	Conductor Size
<b>SXSU-6142</b>	400-630mm <sup>2</sup>
<b>SXSU-6151</b>	500-800mm <sup>2</sup>
<b>SXSU-6161</b>	800-1200mm <sup>2</sup>



## Inline Joints for Single Core Aluminium Wire Armoured XLPE Cables

### FEATURES

- Designed to join inline single core 33kV aluminium wire armoured XLPE cables
- Highly reliable UK industry standard joint
- Will accommodate a mechanical or crimp connector
- Can be used for a size transition joint with the aid of mechanical connectors
- Quick installation time
- No special tools required for installation
- Unlimited shelf life
- Kit contents: Void filling tapes, stress control and insulation tubing, wire armour continuity, inner and outer sealing sleeve
- Tested in accordance with CENELEC specification HD 629 or IEC 60502-4 for joints



**Inline heat shrink joints for single core aluminium wire armoured XLPE cables**

Partnumber	Conductor Size	Partnumber	Conductor Size
<b>SXAW-6122</b>	50-95mm <sup>2</sup>	<b>SXAW-6142</b>	300-630mm <sup>2</sup>
<b>SXAW-6132</b>	120-240mm <sup>2</sup>		

## Inline Joints for Single Core Armoured XLPE Cables c/w Mechanical Connectors

### FEATURES

- The versatile design of the prefabricated one-piece cold shrink splice body allows installation on a wide range of cable sizes and types.
- No special tools are needed during joint installation
- Thick walled EPDM rubber outer jacket provides mechanical protection and moisture sealing of the complete inline joint
- Designed to join inline 33kV single core copper tape screened armoured XLPE cables
- Viable cost based alternative to heat shrink joints
- Low temperature tool free installation
- Faster installation time saving labour costs
- Use build up kit 94-PG-620-1 when primary insulation is smaller than 28.4mm
- Kit contents: splice body, EPDM outer sleeve, mastic, earthing kit and mechanical connectors
- Tested in accordance CENELEC specification HD629.1 which encompasses the BS, VDE etc.



**QS2000 series inline cold shrink joints for single core armoured XLPE cables**

Part number	Diameter over Primary Insulation	Conductor Size	Part number	Diameter over Primary Insulation	Conductor Size
<b>94-AP635-1/C</b>	28.4-42.0mm	120-240mm <sup>2</sup>	<b>94-PG-620-1</b>	Smaller than 28.4mm over primary insulation	Build up kit
<b>94-AP636-1/C</b>	28.4-42.0mm	185-300mm <sup>2</sup>			



**Trifurcating Transition Joint for Single Core XLPE to Three Core PILC Cables c/w Mechanical Connectors**



**Cold shrink trifurcating transition joints for single core XLPE to three core PILC cables**

**FEATURES**

- Designed to join inline 33kV single core XLPE to three core PILC cables
- Low temperature installation
- Faster installation time saving labour costs
- The versatile design of the prefabricated one-piece cold shrink splice body allows installation on a wide range of cable sizes and types.
- No heat or flame is needed during splice body installation
- Mechanical connector provides quick and easy connection with no special tooling
- Scotchcast resin packs can be used providing options to install in zones 1 and 2 hazardous areas
- Tool free installation
- Kit contents: Mould shell, splice body, EPDM tubes, earthing kit, mastics, Scotch™ 23 and mechanical connectors
- Tested in accordance CENELEC specification HD 629.1 which encompasses the BS, VDE etc.

Part number	Conductor Size	Resin Volume	Part number	Conductor Size	Resin Volume
94-FP-435-3/C	120-240mm <sup>2</sup>	20 litres	94-FP-436-3/C	185-400mm <sup>2</sup>	20 litres



**Transition Joint for Single Core XLPE to PILC Cables c/w Mechanical Connectors**



**Cold shrink transition joints for single core XLPE to PILC cables**

**FEATURES**

- Designed to join inline 33kV single core copper wire XLPE to single core PILC cables
- Low temperature installation
- Faster installation time saving labour costs
- The versatile design of the prefabricated one-piece cold shrink splice body allows installation on a wide range of cable sizes and types.
- Mechanical connectors included in the joint allows quick and easy connection with no special tooling
- Solderless earth connection by means of copper stocking and constant force spring
- Tool free installation
- Kit contents: splice body, EPDM tubes, mastics, earthing kit, Scotch™ 13 tape and mechanical connector
- Tested in accordance CENELEC specification HD 629.1 which encompasses the BS, VDE etc.

Part number	Conductor Size	Part number	Conductor Size
94-FC630-1/C	120-240mm <sup>2</sup>	94-FC640-1/C	400-630mm <sup>2</sup>
94-FC631-1/C	185-300mm <sup>2</sup>		



## Inline Joints for 33kV Single Core Unarmoured XLPE Cables c/w Mechanical Connectors

### FEATURES

- Designed to join inline single core 33kV unarmoured XLPE cable in "All in One" kit including mechanical connectors
- Faster installation time than heat shrink joints
- Joint body, earthing system and re-jacketing pre-expanded on one holdout system
- Single piece silicone rubber joint body with high mechanical expansion capability allows a wide application range which enables smaller range of product to be stocked
- Short parking distance required
- Electrical stress control of the screen cut area by intergrated conductive geometrical stress cones
- Electrical stress control of the connector is by an integrated screened connection area (Faraday Cage)
- Kit contents: Stress control and insulation tubing, wire shield, outer cold shrink sleeving and moisture tapes
- For use on solid conductors please contact your nearest sales office
- Joint exceeds CENELEC HD 629.1 which includes IEC, BS, VDE and other international specifications
- Network Rail approved
- Mechanical Shear bolt connector to IEC 61238-1



**Inline cold shrink joints for 33kV single core unarmoured XLPE cables**

Part number	Application Range	Diameter over core insulation	Diameter over outer sheath
CSJA-36D/1XU-1XU-M	95-240mm <sup>2</sup>	27.8-37.6mm	35.0-48.0mm
CSJA-36E/1XU-1XU-M1	240-400mm <sup>2</sup>	34.9-42.8mm	42.0-54.0mm
CSJA-36E/1XU-1XU-M2	500mm <sup>2</sup>	42.6-45.6mm	51.0-57.0mm
CSJA-36E/1XU-1XU-M3	630mm <sup>2</sup>	45.8-49.2mm	56.0-61.0mm

## Cold Shrink Joint for 33kV Single Core Unarmoured XLPE Cables c/w Mechanical Connectors

### FEATURES

- QS2000 cold shrink series kit is designed for in line splicing up to 36kV Umax voltage class, single core polymeric power cable systems with copper wire screen
- The versatile design of the pre-fabricated one piece cold shrink splice body allows installations on a wide range of cable sizes and types and a fast and easy installation at temperatures ranging from -20° to +50°C
- No heat or flame needed during splice body installation
- Solderless earth connection by means of copper stocking and constant force springs
- Thick walled EPDM rubber cold shrink outer jacket tubes provide mechanical protection and moisture sealing of the complete inline joint
- Joints complete with mechanical connector for ease of installation
- No special tools are needed during splice installation
- Joint designed and tested to IEC60502-4



**Inline cold shrink joints for 33kV single core XLPE cables**

Part number	Conductor Size
94-AP630-1/C	120-240mm <sup>2</sup>

Part number	Conductor Size
94-AP631-1/C	185-400mm <sup>2</sup>



**Heat Shrink Inline Joints**



**52kV Heat Shrink Inline Joint**

**FEATURES**

- Designed to join inline single core 52kV unarmoured cables
- Range taking design
- Unlimited shelf life
- Designed for use with mechanical connectors
- Kit includes: Stress control tubes, Insulating sleeves, mastics and outer protection sleeve
- Network Rail approved
- Available for size and insulation transition.
- Cable joints for cross bonding/shield break applications also available
- Tested to IEEE 404 1993, EDF HN-68-S-20, SEN 24 1434, ESI 09-16 & IEC840

Part number	Description	Cable size	Diameter over insulation
<b>EHVS-52H-1-W-1D</b>	25/44kV Poly/Poly Straight Joint, excluding connector	95-300mm <sup>2</sup>	30-45mm
<b>EHVS-52H-1-W-2D</b>	25/44kV Poly/Poly Straight Joint, excluding connector	300-630mm <sup>2</sup>	42-55mm

**Cable specification must be supplied with cable dimensions at time of order**



**Cold Shrink QS III Splicing Kit**



**Cold Shrink QS III Splicing Kit**

**FEATURES**

- Designed to join inline single core 52kV unarmoured cables
- No heat or flame is needed during installation
- Designed for use with mechanical connectors (included)
- One piece splice body
- Network Rail approved
- Tested to IEC60502-04

Partnumber	Description	Cable size	Diameter over insulation
<b>95-AC645-1-240/C</b>	25/44kV Poly/Poly Straight Joint, excluding connector	120-240mm <sup>2</sup>	31.5-53.8mm
<b>95-AC645-1-400/C</b>	25/44kV Poly/Poly Straight Joint, excluding connector	300-400mm <sup>2</sup>	31.5-53.8mm

**Cable specification must be supplied with cable dimensions at time of order**





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**THE POWER TO DELIVER**

# HV Joints

## Contents

72kV Heat Shrink and Cold Shrink Joints **144**



## TE High Voltage Joints

### FEATURES

- Designed to join inline single core 72kV XLPE cables
- Range taking design
- Unlimited shelf life
- Designed for use with mechanical connectors (included)
- Cable joints for cross bonding /shield break applications also available
- Tested to IEEE 404 1993, EDF HN-68-S-20, SEN 24 1434, ESI 09-16 & IEC840

**Cable specification must be supplied for product selection and full cable dimensions at time of order**



## 3M High Voltage Joints

### FEATURES

- Designed to join inline single core 66kV XLPE cables
- Range taking design
- One piece cold shrink splice body
- No heat, flame or special tools are needed during splice body installation
- Accommodates crimp or mechanical connectors (included)

**Cable specification must be supplied with cable dimensions at time of order**





# Jointing Tech



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**THE POWER TO DELIVER**

# HV Terminations

## Contents

**ABB**

**TE**  
connectivity

**3M**

72kV Terminations **148**

52-72kV Cold Shrink  
Terminations **149**

## Single core Heat Shrink terminations for XLPE Cables

### FEATURES

- Designed to terminate 72kV single core XLPE, CWS or lead sheathed cables for indoor/outdoor applications
- Designed for use with crimp or mechanical connectors
- Water and corrosion resistant
- Different creepage distance available
- Tested to IEEE 404 1993, EDF HN-68-2-20, SEN 24 1434, ESI 09-16 & IEC840
- PADS approved
- Kit content - Stress control tubes, insulating sleeves, mastics and rain sheds
- Please contact your nearest sales office with details of the full cable specification prior to order



Part number	Number of Sheds	Creepage Length	Voltage
IHVT-72	4	1600mm	72kV
OHVT-72	7	2200mm	72kV

Part number	Number of Sheds	Creepage Length	Voltage
OHVT-72-L	10	3000mm	72kV

## Single core Cold Shrink terminations for XLPE Cables

### FEATURES

- Designed to terminate 72kV single core lead sheathed or CWS, XLPE cables in outdoor applications to switchgear, cable boxes and pole top assemblies
- Silicone body provides excellent electrical performance and superior low temperature handling
- Quicker installation time saving money on labour costs
- Low temperature tool free installation
- Range taking, few components needed
- Suitable for use with mechanical lugs
- Kit contents - Termination body and mastic seal
- Please contact your nearest sales office with details of the full cable specification prior to order



Part number	Cable dimensions for XLPE cables				Lug dimension s-max dimensions
	Overall cable diameter	Diameter over primary insulation	Cable size	Earth screen size	
96-EP720-2(CWS)	90	33.0-60.0mm	120-1000mm <sup>2</sup>	50mm <sup>2</sup>	70mm
96-EP722-2 (Lead sheath)	90	33.0-60.0mm	120-1000mm <sup>2</sup>	50mm <sup>2</sup>	70mm
96-EP730-2 (CWS)	115	50.0-87.0mm	500-2000mm <sup>2</sup>	50mm <sup>2</sup>	115mm
96-EP732-2 (Lead sheath)	115	50.0-87.0mm	500-2500mm <sup>2</sup>	50mm <sup>2</sup>	115mm

### Single core Self Supporting Terminations



### Single Core self supporting cable terminations for 52-72kV XLPE cables in outdoor applications

#### FEATURES

- Designed to terminate 52 & 72kV single core XLPE cables where the termination is to be used as fixed connection point and for installations where there is risk of very high continuous creepage currents
- The cable termination consist of porcelain or composite insulator installed on a box body made of aluminium castings
- Can be assembled horizontally on the ground before installation
- The composite termination is a lightweight shatter resistant version
- The porcelain insulator is available in brown and the composite insulator is available in grey
- A supporting plate with stand-off insulators are used for an insulated mounting
- Suitable for cable sizes up to 1200mm<sup>2</sup>
- Meets the requirements of SS, IEC & IEEE
- Please contact your nearest sales office with details of the full cable specification prior to order

Part number	Insulator	Creepage Distance	Voltage
<b>APED 521B</b>	Porcelain	1340mm	52kV
<b>APED 722B</b>	Porcelain	2200mm	72kV

Part number	Insulator	Creepage Distance	Voltage
<b>APED 722P</b>	Composite	2330mm	72kV

#### Accessories

Part number	Description	Use
<b>GAP-APED</b>	Rod Gap	Protects against over voltage
<b>PIU-APED</b>	Post Insulator Kit	When insulating mounting
<b>RE-APED-M</b>	48-66 Insulation	Used for re-assembly of a termination (Stress cone included, clamp bolt to be ordered separately as required)
<b>RE-APED-T</b>	25-48.1 Insulation	Used for re-assembly of a termination (Stress cone included, clamp bolt to be ordered separately as required)

Part number	Description	Use
<b>JSA</b>	Earthing Kit	For cable with metallic screen (Not required for copper wire screen cables)
<b>SCK</b>	Screen Connection	For radial waterproof cable with Al-foil and copper wire screen



# Jointing Tech

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**Jointing Tech has comprehensive distribution agreements with the most trusted brands in the UK power network, which means we are uniquely positioned to supply competitively priced LV/MV/HV products that are approved for use across the electrical infrastructure of the UK.**

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# Link Boxes

## Contents

LV 2 & 4 Way **152**

## LV 2 & 4 Way Link Boxes

### FEATURES

- Can be jointed directly onto polymeric or paper insulated LV cables eliminating the need for intermediate lengths of polymeric cables and straight/transition joints
- Pre-fitted factory tailed units are available to speed up direct replacement installations
- Both 3 and 4 core variants are available
- All below are tested to BS EN50393 & 60947-1 and ER C81/4
- Pit frame and colour meet B125 EN124 standards



Description	Conductor Range	Weight
2 way 3-Core MK3 Link Box	70-300mm <sup>2</sup>	39kg
4 way 3-Core MK3 Link Box	70-300mm <sup>2</sup>	100kg
2 way multicable MK3 Link Box	70-300mm <sup>2</sup>	42kg
2 way 3-Core MK3 Link Box double bolt version	70-300mm <sup>2</sup>	39kg
4 way 3-Core MK3 Link Box double bolt version	70-300mm <sup>2</sup>	100kg
2 way 3&4-Core Untailed MK3 Link Box	70-300mm <sup>2</sup>	40kg
4 way 3&4-Core Untailed MK3 Link Box	70-300mm <sup>2</sup>	102kg

Accessories
Wedge type links (83mm centres)
Insulated link remover (single)
Insulated link remover (multiple)

Accessories
Pavement frame and cover (300mm x 300mm)
Pavement frame and cover (600mm x 450mm)
Pavement cover lifting keys

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Manufacturer Brands: DURACELL, YUASA, TE, furse, Prysmian Group, 3M, DURACELL, YUASA, TE

Request a Call Back

# Resins, Compounds & Accessories

## Contents

Resins, Compounds & Accessories **156**

Denso Products **158**

Insulating Compounds **159**

## JSSC Two Part Resin

### FEATURES

- Designed for cable joint encapsulation
- The resin consists of two parts: resin and hardener
- Type approved to CENELEC specification EN 50393



Part number	Size
JSSC	7 litres

## Jem Resin

### FEATURES

- Designed for cable joint encapsulation
- Supplied in clear pouches providing visibility during mixing
- Non-hazardous (non-irritant, non-sensitising, non-flammable)
- Independent testing has shown that no hazard labelling is required
- The resin consists of two parts: acrylic based resin and hardener
- Type approved to CENELEC specification EN 50393
- Power Utility specification ENA TS C81/3
- European legislation (REACH) compliant resin



Part number	Description	Size
JEM 600 9XJ	Isofree Resin	6 litres

Part number	Description	Size
JEM 200P (S POWER)	Isofree Resin	6 litres

## Hazardous Area Resin

### FEATURES

- Designed for cable joint encapsulation
- Supplied in clear pouches providing visibility during mixing
- Flame Retardant
- Chemical Resistant
- The resin consists of two parts: resin and hardener
- Type approved to CENELEC specification EN 50393
- European legislation (REACH) compliant resin



Part number	Size
1402-FR B	200ml
1402-FR C	370ml

Part number	Size
1402-FR Mix Pack	7.18 litres

## Bicalflux



Part number	Size
<b>F71003-02</b>	150cc

## R391



Part number	Size
<b>JR391</b>	0.5kg

## Tallow



Part number	Size
<b>JTALLOW</b>	0.3kg

## UNIAL



Part number	Size
<b>UNIAL</b>	250g

## Solders



Part number	Description
<b>JAP</b>	Alca P Solder
<b>JTS</b>	Tinmans M Solder
<b>JPS</b>	Plumbers D Solder

## Coraline Flux



Part number	Size
<b>J70131-02</b>	0.45kg

## Densofil

### FEATURES

- Anti-corrosion putty designed for sealing, filling and caulking
- Insulates fittings preventing condensation which protects against corrosion
- Lightweight material perfect for fitting around awkward items



Anti-corrosion putty

Part number	Size
DENSOFIL	2kg

## Denso Paste

### FEATURES

- A primer for denso tape and rust preventative for exposed metal
- It does not dry, harden or crack



Anti-corrosion primer

Part number	Size
DENSO PASTE	2.5kg

## Denso Mastic

### FEATURES

- Anti corrosion mastic for sealing, filling and caulking where protective waterproof insulation is required
- Suitable for application in a wide range of climatic conditions



Anti-corrosion mastic

Part number	Size
DENSO MASTIC	3kg

## Denso Tape

### FEATURES

- Anti-corrosion and sealing tape
- Suitable for application in a wide range of climatic conditions



Anti-corrosion tape

Part number	Size
DENSO TAPE 50	50mm x 10m
DENSO TAPE 75	75mm x 10m
DENSO TAPE 100	100mm x 10m

### Cold Pour Insulating Compound



#### FEATURES

- Guroflex is a two-component cold pour insulating compound used to insulate between phase to phase and phase to earth.
- Tested to international performance standards for applications up to 36kV
- Cures to a soft solid
- Unaffected by water and traditional oil-based insulating compounds

### Guroflex

Part number	Size	Part number	Size
<b>GUROFLEX-MV-C530</b>	5.3 litres	<b>GUROFLEX-MV-C1000</b>	10 litres

### Hot Pour Insulating Compound



#### FEATURES

- Designed as a hot pour insulating compound for applications up to and including 11kV
- Available from stock in 10kg metal tins
- U.K Power Networks approved

### G101-123 Compound

Part number	Size
<b>G101-123</b>	10kg

### Hot Pour Insulating Compound



#### FEATURES

- Designed to insulate PILC cables terminated into a box up to 33kV
- Reduces the space needed between phases and earth
- G38A compound will tend to contract by approximately 6% on cooling, as a result there will be a need for topping up
- The high voltage electrical equipment may be energised when the compound temperature falls below 60°C
- Supplied in 25 litre metal tins

### G38A Oil Insulation Compound

Part number	Size
<b>G38A</b>	25 litres



# Jointing Tech

## Earthing Design Service



**Jointing Tech's design and technical services team can provide a total solution for your earthing requirements.**

Jointing Tech are able to design earthing systems and technically support projects in the power, renewable and rail industries in addition to aiding with product selection, product approvals, advise on installation and the supply of earthing materials.

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**THE POWER TO DELIVER**

# Earthing & Lightning Protection

## Contents



Conductors	<b>162</b>
Conductor Fixings	<b>166</b>
Bonding	<b>168</b>
Earthing	<b>169</b>
Earth Rod Clamps	<b>172</b>
Earth Inspection Pits & Accessories	<b>174</b>
Earth Bars	<b>175</b>
Earth Bars & Accessories	<b>176</b>
Custom Made Earth Bars	<b>177</b>
Exothermic Welding	<b>178</b>
Security Products	<b>180</b>

## Bare Copper Tape

### FEATURES

- Designed for use as conductor in earthing and lightning protection systems
- Conductor size determined by application and expected fault current
- Other sizes available on request
- High conductivity copper tape to BS EN 13601 (formerly BS 1432)
- UL 96 (TC030-UL, TC040-UL, TC080)
- Other coil sizes available
- Stamped tape available on request, e.g. 'National Grid'



Part number	Size	Weight per metre	Coil Size
<b>TC030</b>	25x3mm	0.67kg	25m
<b>TC040</b>	25x6mm	1.33kg	40m
<b>TC065</b>	38x6mm	2.02kg	25m

Part number	Size	Weight per metre	Coil Size
<b>TC066</b>	40x4mm	1.42kg	30m
<b>TC075</b>	50x4mm	1.78kg	30m
<b>TC080</b>	50x6mm	2.68kg	20m

## PVC Covered Copper Tape

### FEATURES

- Designed for use as conductor in earthing and lightning protection systems
- Conductor size determined by application and expected fault current
- Available in six colours
- High conductivity copper tape to BS EN 13601 (formerly BS 1432)
- PVC colours to BS 5252. \* Green to BS 6746C



Part number	Colour	Size	Weight per metre	Coil Size
<b>TC105-FU</b>	Black	25x3mm	0.77kg	25m
<b>TC110</b>	Green	25x3mm	0.77kg	25m
<b>TC115-FU</b>	Grey	25x3mm	0.77kg	25m
<b>TC120-FU</b>	Stone	25x3mm	0.77kg	25m

Part number	Colour	Size	Weight per metre	Coil Size
<b>TC125-FU</b>	White	25x3mm	0.77kg	25m
<b>TC130</b>	Brown	25x3mm	0.77kg	25m
<b>TC140-FU</b>	Green	25x6mm	1.53kg	40m
<b>TC145</b>	Green	50x6mm	2.95kg	20m

## Green & Yellow PVC Insulated Copper Tape

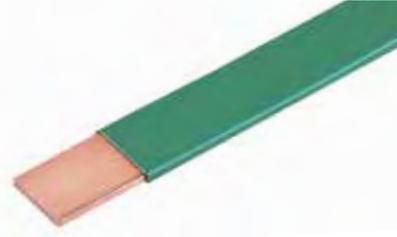
### FEATURES

- Designed for use as conductor in earthing and lightning protection systems
- Conductor size determined by application and expected fault current
- High conductivity copper tape to BS EN 13601 (formerly BS 1432)
- PVC colours to BS 5252.



Part number	Colour	Size	Weight per metre	Coil Size
<b>TC111-FU</b>	Green & Yellow	25x3mm	0.79kg	25m

LSOH Covered Copper Tape



FEATURES

- Designed for use as conductor in earthing and lightning protection systems
- Conductor size determined by application and expected fault current.
- PVC sheath manufactured from LSOH material
- High conductivity copper tape to BS EN 13601 (formerly BS 1432)
- PVC colours to BS 6746C

Part number	Colour	Size	Weight per metre	Coil Size
TC910	Green	25x3mm	0.77kg	25m
TC940	Green	25x6mm	1.53kg	40m

Part number	Colour	Size	Weight per metre	Coil Size
TC980	Green	50x6mm	2.95kg	20m

Bare Aluminium Tape



FEATURES

- Designed for use as conductor above ground in lightning protection systems.
- High conductivity bare aluminium tape
- Aluminium tape to BS 2898-1350

Part number	Size	Weight per metre	Coil Size
TA030	25x3mm	0.21kg	50m
TA040	25x6mm	0.42kg	50m

Part number	Size	Weight per metre	Coil Size
TA068	40x6mm	0.67kg	50m
TA080	50x6mm	0.85kg	50m

PVC Covered Aluminium Tape



FEATURES

- Designed for use as conductor above ground in lightning protection systems.
- High conductivity aluminium tape
- Available in six colours
- Aluminium tape to BS 2898-1350
- PVC colours to BS 5252. \* Green to BS 6746C

Part number	Colour	Size	Weight per metre
TA105	Black	25x3mm	0.30kg
TA110	Green	25x3mm	0.30kg
TA115	Grey	25x3mm	0.30kg

Part number	Colour	Size	Weight per metre
TA120	Stone	25x3mm	0.30kg
TA125	White	25x3mm	0.30kg
TA130	Brown	25x3mm	0.30kg

## Hard Drawn Copper Bar

### FEATURES

- Designed for use in high voltage distribution and control applications including switchgear, transformers, control panels and panel boards.
- Available bare or with tinned coating
- Other sizes available on request
- Hard drawn high conductivity copper bar to BS EN 12163



Part number	Copper	Size	Weight per metre	Length
<b>BA205</b>	Bare	25x3mm	0.67kg	3m
<b>BA210</b>	Bare	25x6mm	1.33kg	4m
<b>BA225</b>	Bare	38x6mm	2.03kg	4m
<b>BA226</b>	Bare	40x3mm	1.07kg	4m

Part number	Copper	Size	Weight per metre	Length
<b>BA227</b>	Bare	40x4mm	1.43kg	4m
<b>BA230</b>	Bare	50x6mm	2.67kg	3m
<b>BA231</b>	Tinned	50x6mm	2.67kg	3m

## Hard Drawn Aluminium Bar

### FEATURES

- Designed for use above ground in high voltage distribution and control applications including switchgear, control panels and panel boards.
- High conductivity hard drawn bar.
- Other sizes available on request
- Aluminium bar



Part number	Copper	Size	Weight per metre	Length
<b>AL406</b>	Bare	40x6mm	TBC	4m

Part number	Copper	Size	Weight per metre	Length
<b>AL506</b>	Bare	50x6mm	TBC	1m

## Flat Tinned Copper Braid

### FEATURES

- Electro Tin plated for extra corrosion resistance
- Other sizes available on request
- High conductivity copper wire to BS 4109-C101



Part number	Size	Weight per metre	Copper
<b>E16mm<sup>2</sup>BRAID</b>	16mm <sup>2</sup>	0.16kg	Tinned
<b>E25mm<sup>2</sup>BRAID</b>	25mm <sup>2</sup>	0.25kg	Tinned
<b>E35mm<sup>2</sup>BRAID</b>	35mm <sup>2</sup>	0.34kg	Tinned

Part number	Size	Weight per metre	Copper
<b>E50mm<sup>2</sup>BRAID</b>	50mm <sup>2</sup>	0.49kg	Tinned
<b>E70mm<sup>2</sup>BRAID</b>	70mm <sup>2</sup>	0.63kg	Tinned
<b>E120mm<sup>2</sup>BRAID</b>	120mm <sup>2</sup>	1.15kg	Tinned

**PVC Covered Stranded Copper Cable**

**FEATURES**

- Designed for use as conductor in electrical, earthing and lightning protection systems
- Green and Yellow sheath to identify as earth cable
- High conductivity PVC covered soft drawn stranded copper cable to BS 6004
- PVC colours to BS 6746C

Part number	Colour	Cross-sectional size	Weight per metre
<b>CC016</b>	Green & Yellow	16mm <sup>2</sup>	0.19kg
<b>CC025</b>	Green & Yellow	25mm <sup>2</sup>	0.29kg
<b>CC035</b>	Green & Yellow	35mm <sup>2</sup>	0.41kg
<b>CC050</b>	Green & Yellow	50mm <sup>2</sup>	0.53kg
<b>CC070</b>	Green & Yellow	70mm <sup>2</sup>	0.73kg

Part number	Colour	Cross-sectional size	Weight per metre
<b>CC095</b>	Green & Yellow	95mm <sup>2</sup>	1.00kg
<b>CC120-FU</b>	Green & Yellow	120mm <sup>2</sup>	1.16kg
<b>CC240</b>	Green & Yellow	240mm <sup>2</sup>	2.49kg
<b>CC400-FU</b>	Green & Yellow	400mm <sup>2</sup>	3.90kg

**Bare Stranded Copper Cable**

**FEATURES**

- Designed for use as conductor in electrical, earthing and lightning protection systems
- High conductivity stranded copper cable
- Other sizes available on request
- Soft drawn stranded copper cable to BS EN 60228

Part number	Cross-sectional size	Weight per metre
<b>CB016</b>	16mm <sup>2</sup>	0.15kg
<b>CB025</b>	25mm <sup>2</sup>	0.23kg
<b>CB035</b>	35mm <sup>2</sup>	0.32kg
<b>CB050-FU</b>	50mm <sup>2</sup>	0.43kg
<b>CB070</b>	70mm <sup>2</sup>	0.62kg

Part number	Cross-sectional size	Weight per metre
<b>CB095</b>	95mm <sup>2</sup>	0.86kg
<b>CB120</b>	120mm <sup>2</sup>	1.09kg
<b>CB240</b>	240mm <sup>2</sup>	2.20kg
<b>CB400-FU</b>	400mm <sup>2</sup>	3.53kg

**Hard Drawn Copper Cable**

**FEATURES**

- Designed for use as conductor in electrical, earthing and lightning protection systems
- High conductivity stranded hard drawn cable
- Other sizes available on request

Part number	Cross-sectional size	Weight per metre
<b>ECHD50</b>	50mm <sup>2</sup>	0.53kg
<b>ECHD70</b>	70mm <sup>2</sup>	0.73kg
<b>ECHD95</b>	95mm <sup>2</sup>	1.00kg

Part number	Cross-sectional size	Weight per metre
<b>ECHD125</b>	125mm <sup>2</sup>	1.25kg
<b>ECHD185</b>	185mm <sup>2</sup>	2.01kg

## Metallic DC Tape Clips

### FEATURES

- Designed to fix down conductors to a building or structure
- DC tape clips manufactured from high quality copper alloy
- Excellent corrosion resistance and high pull off loads
- Tested to BS EN 50164
- UL 96 (CP210-H, CP220-H)



Part number	Material	Size	Weight each
<b>CP210-H</b>	Copper	25x3mm	0.07kg
<b>CP220-H</b>	Copper	25x6mm	0.08kg

Part number	Material	Size	Weight each
<b>CP110-H</b>	Aluminium	25x3mm	0.03kg
<b>CP120-H</b>	Aluminium	25x6mm	0.04kg

## Adjustable Metallic DC Tape Clips

### FEATURES

- Designed to be range taking and fix conductors to a building or structure
- DC tape clips manufactured from high quality copper alloy
- Excellent corrosion resistance and high pull off loads
- Tested to BS EN 50164
- UL 96 (CP260-H)



Part number	Material	Size	Weight each
<b>CP240-H</b>	Copper	38x3mm - 40x6mm	0.12kg

Part number	Material	Size	Weight each
<b>CP260-H</b>	Copper	50x3mm - 50x6mm	0.16kg

## Non-Metallic DC Tape Clips

### FEATURES

- Designed to fix conductors to a building or structure.
- Manufactured from high grade polypropylene
- UV stabilised and non brittle with high pull off loads.
- Available in 7 colours to match bare & pvc covered copper and aluminium tapes
- Tested to BS EN 50164



Part number	Use With	Colour	Size	Weight each
<b>CP015</b>	Bare Tape	Brown	25x3mm	0.01kg
<b>CP020</b>	Bare Tape	Grey	25x3mm	0.01kg
<b>CP065</b>	Bare Tape	Brown	50x6mm	0.02kg
<b>CP025</b>	PVC Covered Tape	Brown	25x3mm	0.01kg
<b>CP030</b>	PVC Covered Tape	Black	25x3mm	0.01kg

Part number	Use With	Colour	Size	Weight each
<b>CP035</b>	PVC Covered Tape	Green	25x3mm	0.01kg
<b>CP040</b>	PVC Covered Tape	Grey	25x3mm	0.01kg
<b>CP045</b>	PVC Covered Tape	Stone	25x3mm	0.01kg
<b>CP050</b>	PVC Covered Tape	White	25x3mm	0.01kg

## Crossover Clamps



### FEATURES

- Designed for forming cross joints in tapes fixed to a building or structure
- Screws are retained in 1 part of clamp with O rings when fitting conductor to prevent screws being lost and ensure a simple installation
- Manufactured from high quality copper alloy
- Low resistance connection between overlapping tapes
- Available in copper or aluminium
- BS EN 50164-1 Class H

Part number	Material	Size	Weight each
<b>CX105-H</b>	Copper	25x3mm	0.09kg

Part number	Material	Size	Weight each
<b>CX005-H</b>	Aluminium	25x3mm	0.03kg

## Square Tape Clamps



### FEATURES

- Designed for forming cross, tee, through and right angle joints with tapes that are fixed to a building or structure
- Screws are retained in one part of clamp with O rings when fitting conductor to prevent screws being lost and ensure a simple installation
- Manufactured from high quality copper alloy
- Low resistance connection between overlapping tapes
- Available in copper or aluminium
- BS EN 50164-1 Class H
- UL 96 (CT105H, CT110-H, CT115-H)

Part number	Material	Size	Weight each
<b>CT105-H</b>	Copper	25x3mm	0.12kg
<b>CT110-H</b>	Copper	25x6mm	0.30kg

Part number	Material	Size	Weight each
<b>CT115-H</b>	Copper	50x6mm	0.60kg
<b>CT005-H</b>	Aluminium	25x3mm	0.06kg

## Oblong Test Clamps



### FEATURES

- Designed to connect lightning protection to earthing system & facilitate periodic testing
- Manufactured from high quality copper alloy
- Low resistance connection between overlapping tapes
- Available in copper or aluminium
- BS EN 50164-1 Class H
- UL 96 (CN105-H)

Part number	Material	Size	Weight each
<b>CN105-H</b>	Copper	25x3mm	0.29kg

Part number	Material	Size	Weight each
<b>CN005</b>	Aluminium	25x3mm	0.12kg

## 'B' Bonds

### FEATURES

- Designed to facilitate bonding to steel structures onto a lightning protection system
- Manufactured from high quality copper alloy
- Available in copper or aluminium
- BS EN 50164-1 Class H, BS 7430



Part number	Material	Max Tape Width	Weight each
<b>BN105</b>	Copper	26mm	0.12kg

Part number	Material	Max Tape Width	Weight each
<b>BN005</b>	Aluminium	26mm	0.06kg

## RWP Bonds

### FEATURES

- Designed to facilitate bonding of rainwater pipes and handrails onto lightning protection system
- Manufactured from high quality copper alloy
- Available in copper or aluminium
- BS 7430



Part number	Material	Max Tape Width	Weight each
<b>BN115</b>	Copper	26mm	0.12kg

Part number	Material	Max Tape Width	Weight each
<b>BN010</b>	Aluminium	26mm	0.07kg

## Pipe Bonds

### FEATURES

- Designed to facilitate bonding of ducts and large diameter pipes onto lightning protection system
- Manufactured from high quality copper alloy
- Available in copper or aluminium
- BS EN 50164-1 Class H, BS 7430



Part number	Material	Weight each
<b>BN175</b>	Copper	0.46kg

Part number	Material	Weight each
<b>BN176</b>	Aluminium	0.25kg

## Braid Bonds

### FEATURES

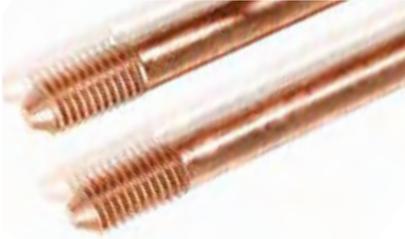
- Designed to facilitate the bonding of gates, doors & fences to lightning protection system
- Manufactured from high quality copper braids
- Other sizes available on request
- BS 7430



Part number	Hole Centres	Weight each
<b>BN505</b>	200mm	0.09kg

Part number	Hole Centres	Weight each
<b>BN510</b>	400mm	0.15kg

**Copperbond Earth Rods**



**FEATURES**

- Designed to be driven into the ground to provide a low resistance to earth for the interconnected lightning protection system
- Manufactured by molecularly bonding 99.9% copper on to a low carbon steel core
- Copper thickness minimum 250 microns
- BS EN 50164-2, BS 7430

Part number	Material	Size	Weight each
<b>RB205-FU</b>	Copperbond	5/8" x 1200mm	1.53kg
<b>RB210</b>	Copperbond	5/8" x 1500mm	1.88kg
<b>RB215</b>	Copperbond	5/8" x 1800mm	2.29kg
<b>RB220-FU</b>	Copperbond	5/8" x 2100mm	2.51kg
<b>RB225</b>	Copperbond	5/8" x 2400mm	3.00kg
<b>RB235</b>	Copperbond	5/8" x 3000mm	3.79kg

Part number	Material	Size	Weight each
<b>RB305</b>	Copperbond	3/4" x 1200mm	2.19kg
<b>RB310</b>	Copperbond	3/4" x 1500mm	3.27kg
<b>RB320-FU</b>	Copperbond	3/4" x 2100mm	3.83kg
<b>RB325</b>	Copperbond	3/4" x 2400mm	4.35kg
<b>RB335</b>	Copperbond	3/4" x 3000mm	5.44kg

**Coupling**



**FEATURES**

- Designed to interconnect earth rods to enable earth rod assembly to be driven deeper to lower resistance
- Manufactured from high copper content alloy
- Excellent resistance to corrosion
- BS EN 50164-1

Part number	Material	Size	Weight each
<b>CG270</b>	Copper	5/8"	0.08kg

Part number	Material	Size	Weight each
<b>CG370</b>	Copper	3/4"	0.13kg

**Driving Stud**



**FEATURES**

- Designed to be used in conjunction with a coupling to drive the earth rod into the ground and avoid damaging the threads of the rod
- Manufactured from carbon steel
- BS EN 50164-1

Part number	Material	Size	Weight each
<b>DST200</b>	Steel	5/8"	0.08kg

Part number	Material	Size	Weight each
<b>DST300</b>	Steel	3/4"	0.12kg

## Solid Copper Earth Rods

### FEATURES

- Designed to be driven into the ground to provide a low resistance to earth for the interconnected lightning protection system
- Solid copper rods offer a greater resistance to corrosion
- Ideal for soil with a high salt content



Part number	Material	Size	Weight each
<b>RC010</b>	Solid Copper	15mm x 1200mm	1.88kg

Part number	Material	Size	Weight each
<b>RC015</b>	Solid Copper	20mm x 1200mm	3.34kg

## Coupling Dowel

### FEATURES

- Designed to interconnect earth rods to enable earth rod assembly to be driven deeper to lower resistance
- Ideal for soil with high salt content.



Part number	Material	Size	Weight each
<b>CG013</b>	Copper	15/20mm	0.02kg

## Driving Stud

### FEATURES

- Designed to be used in conjunction with a coupling to drive the earth rod into the ground and avoid damaging the threads of the rods
- Manufactured from hardened steel



Part number	Material	Size	Weight each
<b>ST010</b>	Hardened steel	15mm	0.02kg

Part number	Material	Size	Weight each
<b>ST015</b>	Hardened steel	20mm	0.05kg

## Over Spike

### FEATURES

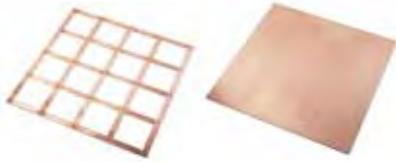
- Designed to aid the rod to be driven into the ground using a sharp spike
- Manufactured from hardened steel



Part number	Material	Size	Weight each
<b>SP010</b>	Hardened steel	15mm	0.02kg

Part number	Material	Size	Weight each
<b>SP015</b>	Hardened steel	20mm	0.05kg

**Earth Plates - Lattice & Solid Copper**



**FEATURES**

- Designed to be buried in the ground to provide a low resistance to earth for the interconnected lightning protection system
- Manufactured from high conductivity copper
- Available in either solid or lattice copper
- Lattice to BS EN 13601
- Solid copper to BS EN 12163

Part number	Description	Size	Weight each
<b>PE110</b>	Lattice	600 x 600 x 3mm	3.98kg
<b>PE120</b>	Lattice	900 x 900 x 3mm	7.20kg

Part number	Description	Size	Weight each
<b>PE010</b>	Solid Copper	600 x 600 x 3mm	9.74kg
<b>PE020</b>	Solid copper	900 x 900 x 3mm	21.74kg

**Marconite**



**FEATURES**

- Designed to be added in place of sand and aggregate to cement to provide a conductive aggregate which lowers the resistance to earth.
- When used as a backfill for earth electrodes marconite impregnated concrete greatly increases the electrode's surface area.
- Ideal for poor ground conditions where low resistances are problematical
- A permanent solution that doesn't dry out like moisture retaining clay in inclement weather conditions
- Available in powder and granules
- Please contact Jointing Tech to calculate quantity of materials required using Backfill software

Part number	Type	Weight
<b>MARCONITE</b>	Powder	25kg

Part number	Type	Weight
<b>MARCONITE-PM</b>	Granules	25kg

**Bentonite**



**FEATURES**

- Designed to be mixed with water to produce a moisture retaining clay which lowers the resistance to earth
- The clay is a sodium activated montmorillonite which when mixed with water swells to many times its dry volume
- Bentonite has the ability to hold moisture content for a considerable period of time and absorb moisture from the surrounding area
- Ideal for poor ground conditions where low resistances are problematical
- Available in powder and granules
- Contact your nearest sales office and using the Furse Backfill software we will advise on the quantity required for each installation

Part number	Type	Weight each
<b>CM015</b>	Powder	25kg

Part number	Type	Weight each
<b>CM015-PM</b>	Granules	25kg

## Rod to Tape Clamp (Type A)

### FEATURES

- Designed to connect earth rod to copper tape to complete earth rod assembly
- Manufactured from high quality copper alloy
- Phosphor bronze fitting
- BS EN 50164-1 (Class H)
- BS 7430
- UL 467 (CR105)



Part number	Rod Diameter	Conductor Size	Weight each
<b>CR105</b>	5/8"	26 x 12mm	0.15kg
<b>CR105</b>	3/4"	26 x 10mm	0.15kg

Part number	Rod Diameter	Conductor Size	Weight each
<b>CR115</b>	5/8"	51 x 8mm	0.30kg
<b>CR125</b>	3/4"	51 x 12mm	0.30kg

## Rod to Cable Clamp (Type G)

### FEATURES

- Designed to connect earth rod to copper cable to complete earth rod assembly
- Manufactured from high quality copper alloy
- Phosphor bronze fitting
- BS EN 50164-1 (Class H)
- BS 7430



Part number	Rod Diameter	Conductor Size	Weight each
<b>CR515</b>	5/8"	16-70mm <sup>2</sup>	0.06kg

Part number	Rod Diameter	Conductor Size	Weight each
<b>CR520</b>	3/4"	35-95mm <sup>2</sup>	0.06kg

## Rod to Cable Lug Clamp (Type B)

### FEATURES

- Designed to connect earth rod to copper cable via lug to complete earth rod assembly.
- Manufactured from high quality copper & aluminium alloys
- Phosphor bronze fitting
- BS 7430



Part number	Rod Diameter	Stud	Weight each
<b>CR205</b>	3/8"	M8	0.09kg
<b>CR215</b>	5/8"	M10	0.30kg

Part number	Rod Diameter	Stud	Weight each
<b>CR225</b>	3/4"	M10	0.30kg

## 'U' Bolt Rod Clamp (Type E)



### FEATURES

- Designed to facilitate the connection of rod or rebar to copper cable with a lug
- Manufactured from high quality copper alloy
- Phosphor bronze fittings
- BS 7430
- UL 467 (CR305)

Part number	Rod Diameter	Hole Centres	Weight each
<b>CR305</b>	5/8"	37mm	0.20kg

Part number	Rod Diameter	Hole Centres	Weight each
<b>CR310</b>	3/4"	37mm	0.20kg

## 'U' Bolt Rod Clamp (Type E) - CR320



### FEATURES

- Designed to facilitate the connection of rod or rebar to copper tape
- Includes additional back plate to allow the tape to be clamped without drilling
- Manufactured from high quality copper alloy
- Phosphor bronze fittings
- BS 7430

Part number	Rod Diameter	Conductor Width	Hole Centres	Weight each
<b>CR320</b>	5/8"	25mm	37mm	0.26kg

## Rod to Cable Clamp (Type GUV)



### FEATURES

- Designed to facilitate the connection of rod or rebar to larger sizes of copper cable
- Manufactured from high quality copper alloy.
- Phosphor bronze fittings
- BS EN 50164-1 Class H, BS 7430
- UL 467

Part number	Rod Diameter	Conductor Range	Hole Centres	Weight each
<b>CR700</b>	5/8"	16-95mm <sup>2</sup>	37mm	0.39kg
<b>CR705</b>	5/8"	70-185mm <sup>2</sup>	37mm	0.39kg
<b>CR730</b>	5/8"	150-300mm <sup>2</sup>	37mm	0.62kg

Part number	Rod Diameter	Conductor Range	Hole Centres	Weight each
<b>CR700</b>	3/4"	16-70mm <sup>2</sup>	37mm	0.39kg
<b>CR705</b>	3/4"	70-150mm <sup>2</sup>	37mm	0.39kg
<b>CR730</b>	3/4"	150-300mm <sup>2</sup>	37mm	0.62kg

### Concrete Inspection Pit

#### FEATURES

- Designed to provide access to the earth rod assembly for periodic testing
- The concrete inspection pit is load rated to 3,500kg
- Not suitable in areas where high load small wheel vehicles are used
- Available with integral earth bars (see below)



Part number	Description	Material	Weight each
PT005	Concrete Inspection Pit	Concrete	30kg

### Lightweight Inspection Pit

#### FEATURES

- Designed to provide access to the earth rod assembly for periodic testing
- Suitable for most types of earthing & lightning protection installations
- Manufactured from high performance polymer, UV stable & chemically resistant
- The lightweight inspection pit is load rated to 5,000kg
- The lightweight earth pit has a lockable lid
- Available with integral earth bar (see below)



Part number	Description	Material	Weight each
PT205	Lightweight Inspection Pit	Polymer	1.80kg

### Inspection Pit Earth Bars

#### FEATURES

- Designed to fit inside inspection pits to facilitate multiple terminations
- Pre-drilled high conductivity copper bar



Part number	Inspection Pit	Description	Material	Weight each
PT004	Lightweight	5 Hole Earth Bar	Copper	0.40kg
PT006	Concrete	5 Hole Earth Bar	Copper	0.40kg
PT007	Concrete	7 Hole Earth Bar	Copper	0.58kg

### Silfos

#### FEATURES

- Self fluxing brazing compound used to make a permanent connection when joining copper conductors
- Used in substation earthing where space is restricted
- An alternative to tape to tape connections and exothermic welding



Part number	Size	Weight	Coil Size
FS005	50 x 12mm	0.50kg	8m

## Earth Bars



### FEATURES

- Earth Bars are an efficient and convenient way of providing a common earth point with integral disconnecting links which facilitate easy isolation for testing purposes
- Manufactured out of high conductivity 50x6mm HD copper bar
- The PVC channel base is entirely corrosion proof - made with high impact uPVC unlike the traditional galvanised steel channel
- Lighter and easier to handle - the use of a modern polymer channel has reduced the weight of the product making it easier to handle
- M10 phosphor bronze stud assemblies
- Pre-drilled holes for ease of installation
- A range of four designs to meet most installation requirements
- Custom made earth bar service available

## Standard Earth Bar



### FEATURES

- A standard earth bar to facilitate multiple connections to earth

Part number	No. of Ways	Stud	Size	Weight each
LK245-4	4	M10	300 x 90 x 90mm	1.4kg
LK245-6	6	M10	400 x 90 x 90mm	1.80kg
LK245-8	8	M10	500 x 90 x 90mm	2.20kg
LK245-10	10	M10	650 x 90 x 90mm	2.80kg
LK245-12	12	M10	750 x 90 x 90mm	3.20kg

Part number	No. of Ways	Stud	Size	Weight each
LK245-16	16	M10	950 x 90 x 90mm	4.00kg
LK245-20	20	M10	1200 x 90 x 90mm	5.00kg
LK245-24	24	M10	1400 x 90 x 90mm	5.80kg
LK245-28	28	M10	1650 x 90 x 90mm	6.90kg

## Earth Bar with Single Disconnecting Link



### FEATURES

- An earth bar with single disconnecting link to facilitate multiple connections to earth with the option of isolating for testing purposes

Part number	No. of Ways	Stud	Size	Weight each
LK243-4	4	M10	375 x 90 x 96mm	1.9kg
LK243-6	6	M10	475 x 90 x 96mm	2.30kg
LK243-8	8	M10	575 x 90 x 96mm	2.70kg
LK243-10	10	M10	725 x 90 x 96mm	3.30kg
LK243-12	12	M10	825 x 90 x 96mm	3.70kg

Part number	No. of Ways	Stud	Size	Weight each
LK243-16	16	M10	1025 x 90 x 96mm	4.50kg
LK243-20	20	M10	1275 x 90 x 96mm	5.50kg
LK243-24	24	M10	1475 x 90 x 96mm	6.30kg
LK243-28	28	M10	1725 x 90 x 96mm	7.40kg

### Earth Bar with Twin Disconnecting Link

#### FEATURES

- An earth bar with twin disconnecting links to facilitate multiple connections to earth with the option of isolating from either side of the earth bar for testing purposes



Part number	No. of Ways	Stud	Size mm	Weight each
LK207-6	6	M10	550 x 90 x 96mm	2.80kg
LK207-8	8	M10	650 x 90 x 96mm	3.20kg
LK207-10	10	M10	800 x 90 x 96mm	3.80kg
LK207-12	12	M10	900 x 90 x 96mm	4.20kg

Part number	No. of Ways	Stud	Size mm	Weight each
LK207-16	16	M10	1100 x 90 x 96mm	5.00kg
LK207-20	20	M10	1350 x 90 x 96mm	5.50kg
LK207-24	24	M10	1550 x 90 x 90mm	6.80kg
LK207-28	28	M10	1800 x 90 x 90mm	7.90kg

### Disconnecting Link

#### FEATURES

- A disconnecting link to enable easy isolation for testing purposes

Part number	Description	Size mm	Weight each
LK205	Disconnecting Link	125 x 90 x 90	5.90kg



### Swan Neck Accessory

#### FEATURES

- Designed to facilitate an easy connection from the main earth bar to the earth ring without the need to bend the copper
- Manufactured from hard drawn copper bar

Part number	Description	Size mm	Weight each
LK004	Swan Neck	400 x 50 x 36	0.42kg



### Insulator

#### FEATURES

- High quality zero halogen stand off insulator
- Manufactured from DMC with brass inserts

Part number	Description	Thread size mm	Weight each
IN005	Insulator with Stud Assembly	M10	0.22kg

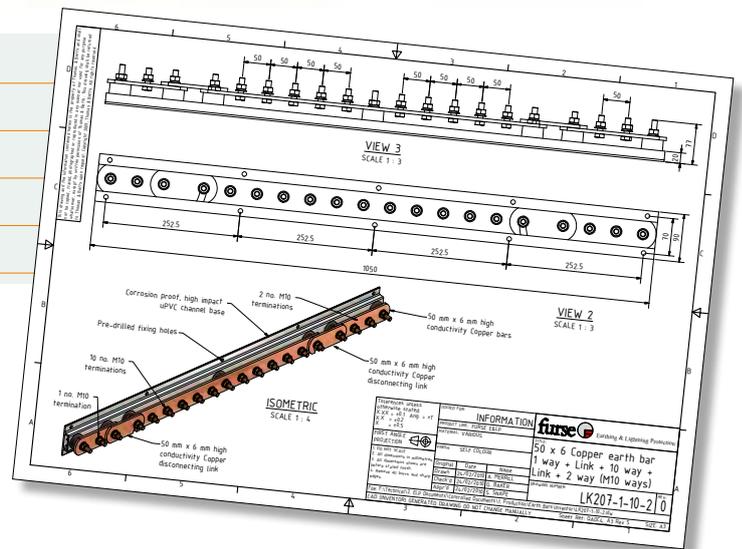




**Custom Made Earth Bars**



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- **Quick Delivery Service on ALL orders.**
- **High quality product**
- **Technical Backup (Design & Installation)**
- **Product datasheets available on request**



**EARTH BAR SELECTION CHECKLIST**

a) No of Earth Connections Required _____	
b) Hole Centres mm (e.g. 50mm) _____	
c) Size of Hard Drawn Bar (e.g. 50x6mm) _____	
d) Type of Fittings (e.g. phosphor bronze) _____	
e) Size of Fittings (e.g. M10) _____	
f) Type of Base (e.g. PVC) _____	

**PLEASE CONTACT YOUR NEAREST SALES OFFICE FOR MORE INFORMATION**



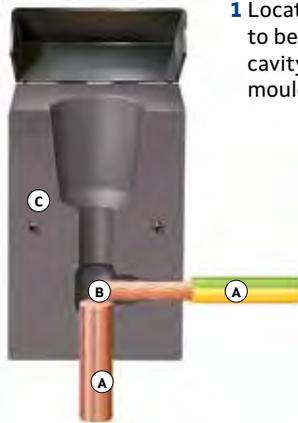
### The FurseWELD Process

#### FEATURES

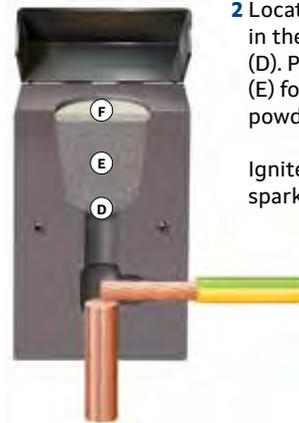
- Furseweld exothermic welding is a cost efficient method of making a large or small number of high quality electrical connections
- A simple self contained system that uses the high temperature reaction of powdered copper oxide and aluminium within a mould to form permanent electrical connections
- Typical applications include Earthing for power plants & substations, transmission and power distribution lines, cathodic protection and rail connections
- Requires no external power or heat source
- Is completely portable
- Can be used safely with minimum training



Making a FurseWELD joint is a simple procedure as illustrated below:

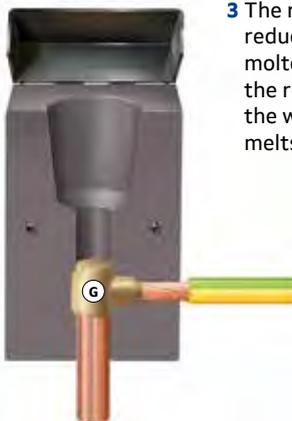


- 1** Locate the conductors (A) to be joined in the weld cavity (B) and close the mould (C).



- 2** Locate the steel retaining disc in the base of the crucible (D). Pour in the weld powder (E) followed by the starting powder (F).

Ignite starting powder with a spark gun.

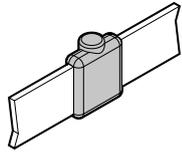


- 3** The resulting exothermic reaction reduces the weld powder to molten copper alloy which melts the retaining disc and flows into the weld cavity where it partially melts the conductors (G).

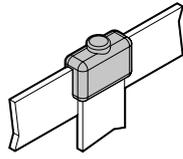
- 4** The molten copper alloy cools to leave a fusion weld of great mechanical and electrical integrity.



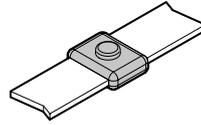
**Bar to bar**



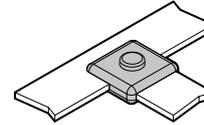
BB1



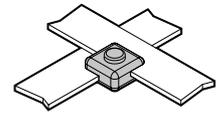
BB3



BB7

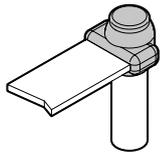


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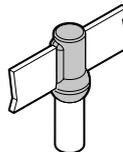


BB41

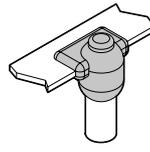
**Bar to earth rod**



BR1

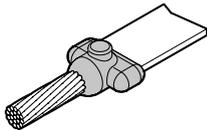


BR2

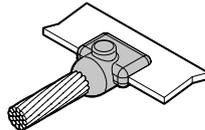


BR7

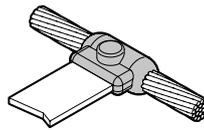
**Cable to bar**



CB1

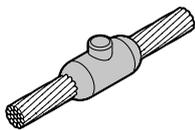


CB4

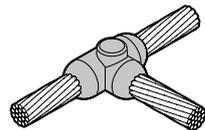


CB5

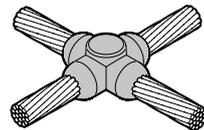
**Cable to cable**



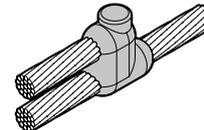
CC1



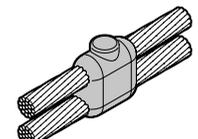
CC2



CC4

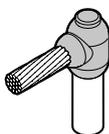


CC6

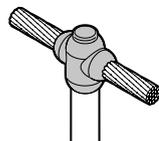


CC7

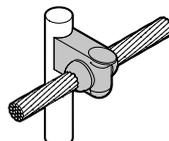
**Cable to earth rod**



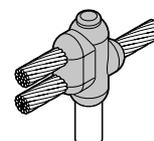
CR1



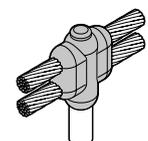
CR2



CR3



CR17



CR24

## Anti-Vandal Guard

### FEATURES

- Anti-Vandal tape guards provide protection from accidental damage, vandalism and theft from flat tapes up to 50mm wide
- Easy to secure using security pins into concrete structures
- Low Profile with galvanised finish offers a long lasting resistance to corrosion



Part number	Width	Length
<b>AVS025-1100</b>	25mm	1.1m
<b>AVS040-1100</b>	40mm	1.1m

Part number	Width	Length
<b>AVS050-1100</b>	50mm	1.1m

## Anti-Vandal Guards - Section

### FEATURES

- Anti-Vandal tape guards provide protection from accidental damage, vandalism and theft from flat tapes up to 50mm wide
- Easy to secure
- Low Profile with galvanised finish offers a long lasting resistance to corrosion



Part number	Width	Length
<b>AVS025-300</b>	25mm	300m
<b>AVS040-300</b>	40mm	300m

Part number	Width	Length
<b>AVS050-300</b>	50mm	300m

## Anti Vandal Guards - Section

### FEATURES

- Anti Vandal tape guards provide protection from accidental damage, vandalism and theft from flat tapes upto 50mm wide
- Easy to secure using security pins into concrete structures
- Low Profile with galvanised finish offers a long lasting resistance to corrosion



Part number	Width
<b>AVL025</b>	25mm
<b>AVL040</b>	40mm

Part number	Width
<b>AVL050</b>	50mm

## Anti-Vandal Guards - 3 Way Cover

### FEATURES

- Anti-Vandal tape guards provide protection from accidental damage, vandalism and theft from flat tapes upto 50mm wide
- Easy to secure using security pins into concrete structures
- Low Profile with galvanised finish offers a long lasting resistance to corrosion



Part number	Width
<b>AVT025</b>	25mm
<b>AVT040</b>	40mm

Part number	Width
<b>AVT050</b>	50mm

**Anti-Vandal Guards - 4 Way Cover**

**FEATURES**

- Anti-Vandal tape guards provide protection from accidental damage, vandalism and theft from flat tapes upto 50mm wide
- Easy to secure using security pins into concrete structures
- Low Profile with galvanised finish offers a long lasting resistance to corrosion

Part number	Width
<b>AVX025</b>	25mm
<b>AVX040</b>	40mm

Part number	Width
<b>AVTX050</b>	50mm

**Anti-Climb Paint**

**FEATURES**

- Anti-Climb paint is used to prevent climbing on objects such as lamp posts, walls and fences using a non-drying oil that keeps the surface greasy and slippery
- It leaves its mark on the person touching it and hence makes it possible for intruders to be identified
- Can be used in hot and cold weather conditions

Part number	Volume
<b>ATPAINT</b>	0.5l

**Camouflage Paint**

**FEATURES**

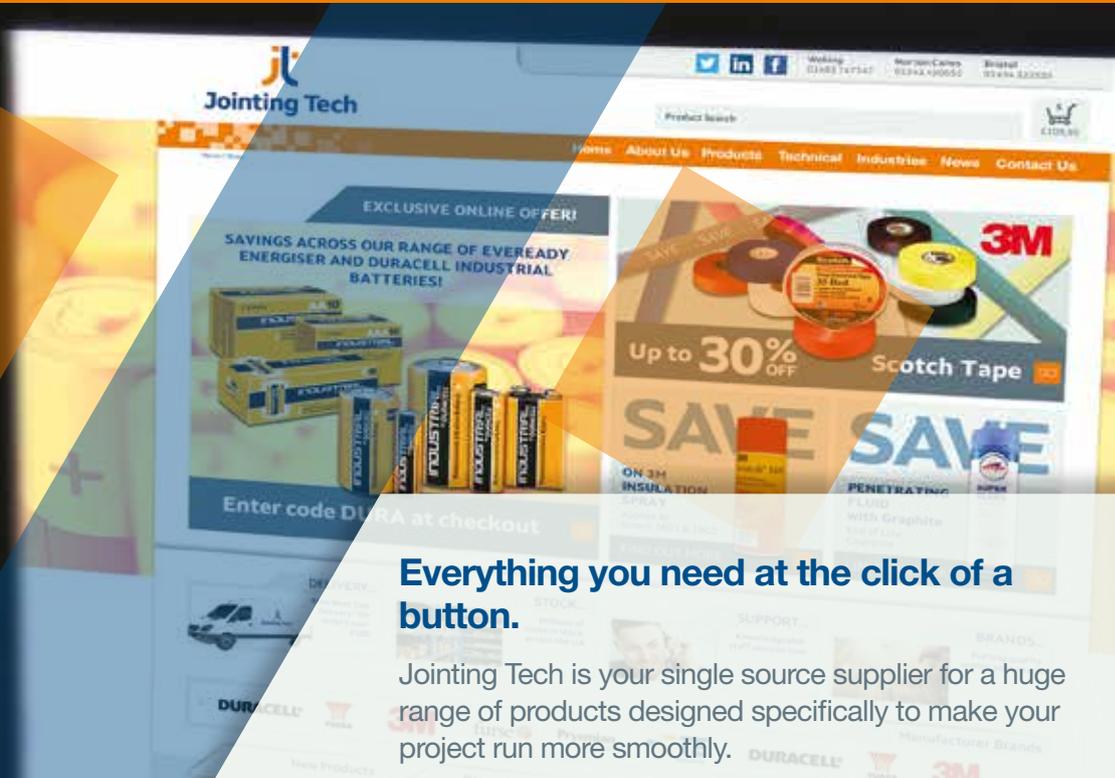
- Camouflage paint is used to disguise copper as aluminium to deter theft

Part number	Volume
<b>CAMPAIN</b>	5l



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## Contents

PVC Insulation Tapes	<b>184</b>
Self Amalgamating & Splicing Tapes	<b>186</b>
Self Amalgamating & Mastic Sealing Tapes	<b>187</b>
Mastic Sealing & Marking Tapes	<b>189</b>
Corrosion & Protection Tapes & Paints	<b>190</b>
Glass Cloth & Cambric Tapes	<b>191</b>
Aerosol Sprays	<b>192</b>

### Scapa 2702 PVC Tape

#### FEATURES

- Good resistance to abrasion, Corrosion and moisture
- High dielectric strength and good mechanical protection
- Conforms to BS3924



**Self-extinguishing plasticised PVC tape**

Part Number	Material	Colour	Size	Coil size
<b>2702 BLACK</b>	PVC	Black	19mm x 0.13mm	33m
<b>2702 BLUE</b>	PVC	Blue	19mm x 0.13mm	33m
<b>2702 BROWN</b>	PVC	Brown	19mm x 0.13mm	33m
<b>2702 GREY</b>	PVC	Grey	19mm x 0.13mm	33m
<b>2702 GREEN/YELLOW</b>	PVC	Green/Yellow	19mm x 0.13mm	33m
<b>2702 RED</b>	PVC	Red	19mm x 0.13mm	33m
<b>2702 YELLOW</b>	PVC	Yellow	19mm x 0.13mm	33m
<b>2702 WHITE</b>	PVC	White	19mm x 0.13mm	33m

### Scotch 35 Tape

#### FEATURES

- Designed for use in phase identification and general purpose cable insulation
- Abrasion and weather resistant
- Joint, Termination and Connectors insulation up to 600V
- Resistant to moisture, alkalis, acids, U.V and corrosion
- Available in a range of fade resistant colours, see below
- Conforms to BS 3924 and UL 510
- Temperature rating 80°C



**High quality colour coding PVC tape**

Part Number	Material	Colour	Size	Coil size
<b>SCOTCH35BR</b>	PVC	Brown	19mm x 0.178mm	20m
<b>SCOTCH35GR</b>	PVC	Grey	19mm x 0.178mm	20m
<b>SCOTCH35OR</b>	PVC	Orange	19mm x 0.178mm	20m
<b>SCOTCH35RE</b>	PVC	Red	19mm x 0.178mm	20m

Part Number	Material	Colour	Size	Coil size
<b>SCOTCH35VI</b>	PVC	Blue	19mm x 0.178mm	20m
<b>SCOTCH35WH</b>	PVC	White	19mm x 0.178mm	20m
<b>SCOTCH35YE</b>	PVC	Yellow	19mm x 0.178mm	20m

### Scotch 33 Tape

#### FEATURES

- Indoor/Outdoor insulations and for general purpose wiring applications and cable joints up to 600V
- Provides protective jacketing for High Voltage cable joints and repairs
- Flame retardant with excellent resistance to abrasion, moisture, alkalis, acid and copper corrosion
- Other sizes available on request
- Conforms to BS 3924 and UL 510
- Temperature rating 80°C



**General purpose PVC insulating tape**

Part Number	Material	Colour	Size	Coil size
<b>SCOTCH33-19</b>	PVC	Black	19mm x 0.178mm	33m
<b>SCOTCH33-25</b>	PVC	Black	25mm x 0.178mm	33m

Part Number	Material	Colour	Size	Coil size
<b>SCOTCH33-38</b>	PVC	Black	38mm x 0.178mm	33m

**Scotch Super 33+ Tape**


**Premium grade all weather PVC insulating tape**

**FEATURES**

- Designed for primary electrical insulation for cable splices and busbar applications
- All weather tape suitable for cold weather applications
- Flame retardant and highly conformable
- Excellent resistance to abrasion, moisture, alkalis, acid, copper corrosion.
- Provides protective jacketing for HV cable splices and repairs (up to 600V)
- Conforms to BS 3924 and UL 510
- Temperature rating - 18°C to 105°C

Part Number	Material	Colour	Size	Coil size
<b>SCOTCH33+</b>	PVC	Black	19mm x 0.178mm	20m

**Scotch Super 88 Tape**


**Premium grade heavy duty all weather PVC tape**

**FEATURES**

- Designed for primary electrical insulation for cable splices and busbar applications
- Excellent abrasion and puncture resistance
- All weather tape suitable for cold weather applications
- Flame retardant and highly conformable
- Excellent resistance to moisture, alkalis, acid, copper corrosion
- Provides protective jacketing for HV cable splices and repairs (up to 600V)
- Conforms to BS 3924 and UL 510
- Temperature rating -18°C to +105°C

Part Number	Material	Colour	Size	Coil size
<b>SCOTCH88-19</b>	PVC	Black	19mm x 0.216mm	20m
<b>SCOTCH88-25</b>	PVC	Black	25mm x 0.216mm	33m
<b>SCOTCH88-38</b>	PVC	Black	38mm x 0.216mm	33m

**Scotch 22 Tape**


**Extra heavy duty PVC tape**

**FEATURES**

- Designed for heavy duty applications, harnessing, cable sheath repair and sealing connectors
- High elastic memory, excellent abrasion and puncture resistance
- All weather tape suitable for cold weather applications
- Flame retardant and highly conformable
- Excellent resistance to moisture, alkalis, acid, copper corrosion
- Conforms to BS 3924 and UL 510
- Temperature rating -10°C to +80°C

Part Number	Material	Colour	Size	Coil size
<b>SCOTCH22-12</b>	PVC	Black	12mm x 0.254mm	33m
<b>SCOTCH22-19</b>	PVC	Black	19mm x 0.254mm	33m
<b>SCOTCH22-25</b>	PVC	Black	25mm x 0.254mm	33m
<b>SCOTCH22-38</b>	PVC	Black	38mm x 0.254mm	33m
<b>SCOTCH22-50</b>	PVC	Black	50mm x 0.254mm	33m

### Scotch 23 Tape

#### FEATURES

- Primary electrical insulation for cable jointing and terminating up to 69kV
- Suitable for jacketing on HV splices and terminations and end sealing on HV cables
- Can be stretched up to 100% to give void free, moisture resistant insulation
- Physical and electrical properties unaffected by the degree of stretch
- Temperature rating 90°C



**Rubber self amalgamating  
all voltage splicing tape**

Part Number	Material	Colour	Size	Coil size
SCOTCH23-19	Rubber	Black	19mm x 0.76mm	9.15m
SCOTCH23-25	Rubber	Black	25mm x 0.76mm	9.15m
SCOTCH23-38	Rubber	Black	38mm x 0.76mm	9.15m
SCOTCH23-50	Rubber	Black	50mm x 0.76mm	9.15m

### Scotch 130C Tape

#### FEATURES

- Primary electrical insulation for cable jointing and terminating up to 69kV and building stress cones up to 35kV
- Suitable for jacketing on HV splices and terminations and end sealing on HV cables
- Flame retardant, UV and weather and corona resistant
- Can be stretched up to 75% to give void free, moisture resistant insulation
- Physical and electrical properties unaffected by the degree of stretch
- Temperature rating 90°C



**Linerless EPR self  
amalgamating all voltage  
splicing tape**

Part Number	Material	Colour	Size	Coil size
SCOTCH130C-19	Rubber	Black	19mm x 0.762mm	9m
SCOTCH130C-25	Rubber	Black	25mm x 0.762mm	9m
SCOTCH130C-38	Rubber	Black	38mm x 0.762mm	9m
SCOTCH130C-50	Rubber	Black	50mm x 0.762mm	9m

### Scotch 70 Tape

#### FEATURES

- Designed as an over-wrap for protection of terminating high-voltage cables against arcing and tracking
- Excellent arc and track resistance
- Excellent performance in low and high temperature environments
- Instantaneous fusion and excellent conformability.
- High dielectric strength
- Temperature rating 180°C (Class H)



**Self fusing arc and track  
resistant tape**

Part Number	Material	Colour	Size	Coil size
SCOTCH70	Rubber	Black	25mm x 0.3mm	9m

### Scotch 13 Tape



**Semi-conducting rubber high voltage tape**

#### FEATURES

- Electrically rounds-off high voltage connectors and lugs and provides screen continuation for high voltage joints and terminations
- Replaces semi-conducting layer beneath metallic shield of damaged cables
- Forms conductive portion of stress cones
- Non vulcanising and highly conformable to irregular shapes
- Resists cracking, solvents, UV and moisture
- Tape and liner boldly printed to distinguish from insulating tape
- Meets requirements of ASTM-D4388, Type IV
- Temperature rating 90°C. Emergency cable 130°C

Part Number	Material	Colour	Size	Coil size
<b>SCOTCH13</b>	Mastic	Black	19mm x 0.762mm	4.5m

### Scotch 2220 Tape



**Stress control all voltage tape**

#### FEATURES

- Designed to provide stress relief for all cable terminations and HV joints
- Reduces stress concentration to values found in continuous cables
- Changes voltage distribution in electrical field surrounding a HV termination or joint
- Temperature rating 90°C

Part Number	Material	Colour	Size	Coil size
<b>SCOTCH2220</b>	Mastic	Black	19mm x 0.762mm	4.5m

### Scotchfil Putty



**Electrical insulation putty tape**

#### FEATURES

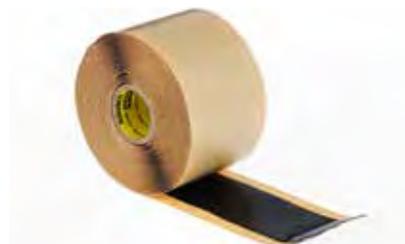
- Recognised as a joint insulation for electrical conductors when over wrapped with either Super 33+ or Super 88 electrical tape
- To insulate low-voltage (600 volts and less) connections
- To build up cable joints and fill out major irregularities and voids in low-voltage joints (2300 volts and less) in order to obtain a uniform base for further taping
- Non corrosive synthetic rubber
- Excellent electrical and ageing properties
- UL recognised
- Temperature rating 80°C

Part Number	Material	Colour	Size	Coil size
<b>SCOTCHFIL</b>	Rubber	Black	38mm x 3.175mm	1.5m

### Scotch 2210 Tape

#### FEATURES

- Designed to insulate and moisture seal all connections up to 600V
- Excellent resistance to abrasion, moisture, alkalis, acid and copper corrosion
- Highly resistant to ultra violet light
- Flexible over wide range of temperatures
- Available in either tape or pads
- Temperature rating  $-18^{\circ}\text{C}$  to  $+38^{\circ}\text{C}$



Self fusing vinyl mastic tape and pads

Part Number	Material	Colour	Size	Coil size
SCOTCH 2210-19	PVC	Black	19mm	6m
SCOTCH 2210-38	PVC	Black	38mm	6m
SCOTCH 2200 PADS	PVC	Black	114mm x 165mm	-

### Scotch 2228 Tape

#### FEATURES

- Designed to insulate and moisture seal all connections up to 1000V
- Highly conformable for applications over irregular surfaces
- Excellent weather and moisture resistance
- Flexible over wide range of temperatures
- Temperature rating  $-18^{\circ}\text{C}$  to  $+90^{\circ}\text{C}$



Self amalgamating rubber mastic tape

Part Number	Material	Colour	Size	Coil size
SCOTCH2228	EPR	Black	50mm x 1.65mm	3.03m

### Scotch 2229 Tape

#### FEATURES

- Designed for insulating, padding and sealing of objects that need to be protected from adverse environmental conditions.
- Excellent corrosion protection properties.
- Highly conformable for applications over irregular surfaces
- Wide temperature stability while maintaining its sealing properties.
- Excellent chemical and UV resistance
- Temperature rating  $-34^{\circ}\text{C}$  to  $+71^{\circ}\text{C}$



Mastic tape

Part Number	Material	Colour	Size	Coil size
SCOTCH2229	Mastic	Black	25mm x 3.2mm	3.08m

### Scotch 2221 Oil Barrier Mastic Tape



**Self fusing oil resistant elastomeric PU mastic tape**

#### FEATURES

- Designed for oil barrier applications in oil paper insulated MV cable joints and terminations
- Good stress control
- Temp range 90°-130°C
- Frame retardant

Part Number	Material	Colour	Size	Coil size
<b>SCOTCH2221</b>	Elastomeric PU mastic tape	Grey	19mm x 1.5mm	1.5m

### Scotch 5313 Water Blocking Tape



**Tacky solid extrusion based on a synthetic rubber**

#### FEATURES

- High adhesive strength
- Service temperature range -29°C to 135°C
- Excellent water/weathering resistance
- Ozone resistant
- Colour - black
- Available in 20mm x 10m

Part Number	Material	Colour	Size	Coil size
<b>SCOTCH5313</b>	Synthetic rubber	Black	20mm	10m

### Scotch Temflex 1700P Tape



**Pre-printed phase pvc marking tape**

#### FEATURES

- PVC tape, pre-printed with phase marking characters to assist with cable identification
- Suitable for a wide temperature range
- Flame retardant
- Temperature rating -10°C to +80°C

Part Number	Material	Colour	Size	Coil size
<b>T1700PL</b>	PVC	White	15mm x 0.77mm	10m
<b>T1700PL1</b>	PVC	White	15mm x 0.77mm	10m
<b>T1700PL2</b>	PVC	White	15mm x 0.77mm	10m
<b>T1700PL3</b>	PVC	White	15mm x 0.77mm	10m
<b>T1700PN</b>	PVC	White	15mm x 0.77mm	10m

### Scotchrap 50 and 51 Tape

#### FEATURES

- Designed to resist corrosion of metal piping systems above and below ground.
- High electrical strength and insulating properties.
- Excellent resistance to impact abrasion, punctures and tears.
- Resistance to common chemicals, salt water, acids, alkalis and salts
- Operating temperature -48°C to +80°C
- Applicator temperature range -12°C - 65.6°C and use the degree sign



**All weather corrosion protection tape**

Part Number	Material	Colour	Size	Coil size
<b>SCOTCH50-25</b>	PVC	Black	25mm x 0.254mm	30.5m
<b>SCOTCH50-50</b>	PVC	Black	50mm x 0.254mm	30.5m
<b>SCOTCH50-101</b>	PVC	Black	101mm x 0.254mm	30.5m
<b>SCOTCH51-25</b>	PVC	Black	25mm x 0.508mm	30.5m
<b>SCOTCH51-50</b>	PVC	Black	50mm x 0.508mm	30.5m
<b>SCOTCH51-101</b>	PVC	Black	101mm x 0.508mm	30.5m

### Scotchrap Primer

#### FEATURES

- A rubber base primer that permeates metal surface pits and irregularities, preparing the surface for tape application
- Quick drying base primer
- Temperature rating to 80°C



**Corrosion protection pipe primer**

Part Number	Material	Colour	Size
<b>SCOTCHRAP</b>	Primer	Black	1 gallon

### Scotchrap 27 Tape



**Glass cloth tape**

#### FEATURES

- Applications include a heat stable insulation for furnace and oven controls, motor leads and switches
- High mechanical strength.
- Resistance to high temperatures
- Treated and prepared to provide corrosion free protection
- The adhesive is a rubber pressure-sensitive thermosetting system
- Temperature rating 130°C

Part Number	Material	Colour	Size	Coil size
<b>SCOTCH27</b>	Glass Cloth	White	12mm x 0.178mm	20m

### Scotchrap 69 Tape



**Glass cloth tape with silicone adhesive**

#### FEATURES

- Applications include induction type furnace power supply leads for high temperature
- To be used in conjunction with 77 Tape for arc and fire proofing applications
- High mechanical strength
- Resistance to high temperatures
- The adhesive is a silicone high temperature thermosetting system
- Temperature rating 200°C

Part Number	Material	Colour	Size	Coil size
<b>SCOTCH69-6</b>	Glass Cloth	White	6mm x 0.177mm	33m
<b>SCOTCH69-9</b>	Glass Cloth	White	9mm x 0.177mm	33m
<b>SCOTCH69-12</b>	Glass Cloth	White	12mm x 0.177mm	33m
<b>SCOTCH69-15</b>	Glass Cloth	White	15mm x 0.177mm	33m
<b>SCOTCH69-19</b>	Glass Cloth	White	19mm x 0.177mm	33m
<b>SCOTCH69-25</b>	Glass Cloth	White	25mm x 0.177mm	33m
<b>SCOTCH69-38</b>	Glass Cloth	White	38mm x 0.177mm	33m
<b>SCOTCH69-50</b>	Glass Cloth	White	50mm x 0.177mm	33m

### Scotchrap 2510 Tape



**Cambric tape**

#### FEATURES

- Designed for insulating joints, connections, heavy split bolts and bus bars
- The fabric is oil primed and coated with a high grade yellow electrical insulating varnish
- Flexible and moisture resistant with a smooth finish
- Excellent resistance to abrasion, puncture and cut-through
- Temperature rating 105°C

Part Number	Material	Colour	Size	Coil size
<b>SCOTCH2510</b>	Woven Cambric Cotton	Yellow	19mm x 7 mils	20m

### Scotch 1601 and 1602 Insulation Spray

#### FEATURES

- Designed to provide a protective coating in electrical connections
- Hardens into a flexible and resistant film
- Excellent adhesion to most common surfaces such as metal, glass, plastic, wood
- Moisture and weatherproof and resistant to UV-rays, acids, oil and alkalis
- Available in Clear or Red



**Electrical insulation spray**

Part Number	Colour	Size
SCOTCH1601	Clear	400ml

Part Number	Colour	Size
SCOTCH1602	Red	400ml

### Scotch 1609 Silicone Spray

#### FEATURES

- Designed as a general use product for protective, maintenance, protection and lubrication
- It lubricates moving parts without becoming resinous and can be used over a wide temperature range (-32°C to + 177°C)
- Neutral to paints, plastics, rubber, foamed materials, wood and fabrics



**Silicone spray**

Part Number	Colour	Size
SCOTCH1609	Clear	400ml

### Scotch 1617 Zinc Spray

#### FEATURES

- Permanent protection against rust and corrosion
- Excellent adhesion to iron and steel
- Resistant to weathering, UV radiation, moisture, alkaline solutions and mineral oils
- Ideal primer for metal constructions



**Zinc spray**

Part Number	Colour	Size
SCOTCH1617	Grey	400ml

### Scotch 1625 Electrical Contact Cleaner Spray

#### FEATURES

- Designed for general purpose cleaning applications
- Loosens dirt, light oxide layers and impurities of every kind in an effective gentle manner
- Electrically neutral



**Electrical contact cleaner spray**

Part Number	Colour	Size
SCOTCH1625	Clear	400ml

**Scotch 1626 Degreasing Cleaner Spray**



**Degreasing cleaner spray**

**FEATURES**

- Designed for general purpose degreasing applications
- Ideal dissolving cleaner for greases, oils, lubricants, resins and tar
- Non-corroding (except plastics)

Part Number	Colour	Size
<b>SCOTCH1626</b>	Clear	400ml

**Scotch 1633 Rust Remover Spray**



**Rust remover spray**

**FEATURES**

- It loosens rust, protects against moisture and renewed oxidation
- Forms a moisture barrier to prevent trouble before it starts
- Excellent lubrication properties

Part Number	Colour	Size
<b>SCOTCH1633</b>	Clear	400ml



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# Cable Transits

## Contents

Roxtec Sealing System	<b>196</b>
Duct Seals and Sealants	<b>198</b>
Duct Sealing	<b>199</b>
Raychem Duct Seal	<b>200</b>

## GHM Frame

### FEATURES

- GHM Frame for bolted installation with 60 x 120mm to 120 x 120mm packing space
- GHM frame is designed for installation through bolting where welding is not suitable
- Use with RM installation modules
- Mild steel with primed finish
- Additional sizes available on request



**GHM Frame for bolted installation**

Part Number	Frame Openings	Packing Space mm	Dimensions mm
<b>GHM2X1</b>	1	60 x 120	233 x 253
<b>GHM2X2</b>	2	60 x 120	233 x 383
<b>GHM4X1</b>	1	120 x 120	292 x 253
<b>GHM4X2</b>	2	120 x 120	292 x 383

## B Frame

### FEATURES

- B Frame for installation around existing services for 60 x 120mm to 120 x 120mm packing space
- The Roxtec B frame is a flanged, bolted together metal frame. Frame parts are assembled to make different sizes and combinations of openings
- Use with RM installation modules
- Galvanised mild steel



**B Frame for installation**

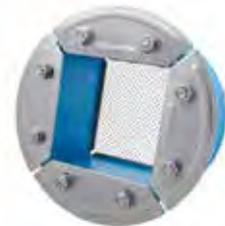
Part Number	Packing Space mm	Dimensions mm
<b>LSZ2</b>	60 x 120	181 x 40
<b>LSZ4</b>	120 x 120	240 x 40
<b>LSZ6</b>	180 x 120	298 x 40
<b>LSZ8</b>	240 x 120	358 x 40
<b>PSZ2</b>	60 x 120	181 x 8

Part Number	Packing Space mm	Dimensions mm
<b>PSZ4</b>	120 x 120	240 x 8
<b>PSZ6</b>	180 x 120	298 x 8
<b>PSZ8</b>	240 x 120	358 x 8
<b>SSZ</b>	120 x 120	-

## R Frame

### FEATURES

- R Frame for installation around existing services for 60 x 120mm to 120 x 120mm packing space
- The Roxtec R frame is a round expansion frame with a square packing space for multiple cables, pipes and modules
- Compression is integrated into the frame to enable installation around existing cables/pipes
- Available in galvanised mild steel and AISI 316 stainless steel



**R Frame for installation**

Part Number	Packing Space mm	Hole Diameter mm
<b>R100</b>	60 x 60	100-102
<b>R125</b>	80 x 80	125-127
<b>R127</b>	80 x 80	127-129

Part Number	Packing Space mm	Hole Diameter mm
<b>R150</b>	90 x 90	150-152
<b>R200</b>	120 x 120	200-202

**RS Frame with Integrated Seal**



**RS entry seal for installation**

**FEATURES**

- The Roxtec RS is a round entry seal with integrated compression system for use with one cable or pipe
- RS entry seal has two halves and an adaptable centre with removable layers to allow installation around existing cable or pipe
- Manufactured out of AISI 316 stainless steel
- Casting mould and sleeve accessory available

Part Number	Cable/Pipe Diameter mm	Hole Diameter mm	Part Number	Cable/Pipe Diameter mm	Hole Diameter mm
<b>RS25</b>	3.6-12.0	25.0-26.0	<b>RS68</b>	26.0-48.0	68.0-70.0
<b>RS31</b>	4.0-17.0	31.0-32.0	<b>RS75</b>	24.0-54.0	75.0-77.0
<b>RS43</b>	4.0-23.0	43.0-45.0	<b>RS100</b>	48.0-70.0	100.0-102.0
<b>RS50</b>	8.0-30.0	50.0-52.0	<b>RS125</b>	66.0-98.0	125.0-127.0

**RM Modules - With Core**



**Adaptable RM sealing modules**

**FEATURES**

- Adaptable RM sealing modules for use with frames.
- Multidiameter™ technology based on removable layers for perfect adaptation to a cable or pipe
- Made from Roxylon™ rubber
- When used with a solid core, the module functions as a spare module for future capacity

Part Number	Cable/Pipe Dia mm	External Diameter mm	Part Number	Cable/Pipe Dia mm	External Diameter mm
<b>RM15</b>	3.0-11.0	15 x 15	<b>RM40</b>	21.5-34.5	40 x 40
<b>RM20</b>	4.0-14.5	20 x 20	<b>RM60</b>	28.0-54.00	60 x 60
<b>RM30</b>	10.0-25.0	30 x 30			

**Wedge Kits**



**Compression units**

**FEATURES**

- The Roxtec Wedge is a highly efficient compression unit, which saves valuable installation time when it comes to installation and re-installation of the Roxtec sealing system
- The unit is compressed and decompressed by turning the screws in the front
- The Wedge kit includes one Roxtec Wedge 60 or 120, five stayplates, one Wedge Clip, one lubricant and installation instructions
- Available in galvanised or AISI 316 stainless steel

Part Number	External Diameter (W x H) mm	Part Number	External Diameter (W x H) mm
<b>WK60</b>	60 x 48	<b>WK120</b>	120 x 48

## Filoform Sealing System - MDIII

### FEATURES

- Designed to be used where conduit or ducts are tightly positioned against each other
- Seals against water and gas
- Seal is created using circular foam and expanding polyurethane resin
- Quick and easy to install
- Holds many utility approvals, speak to your local branch for details



Part Number	Maximum Duct Diameter (mm)	Maximum Cable Diameter in the Duct (mm)
<b>MDIII-25</b>	MAX Ø 25	MAX Ø 8
<b>MDIII-50</b>	MAX Ø 50	MAX Ø 20
<b>MDIII-75</b>	MAX Ø 75	MAX Ø 40
<b>MDIII-110</b>	MAX Ø 110	MAX Ø 80

Part Number	Maximum Duct Diameter (mm)	Maximum Cable Diameter in the Duct (mm)
<b>MDIII-160</b>	MAX Ø 160	MAX Ø 130
<b>MDIII-200</b>	MAX Ø 200	MAX Ø 160
<b>MDIII-250</b>	MAX Ø 250	MAX Ø 220



## Filoform Sealing System - Filoseal+

### FEATURES

- Re-enterable system allowing new services to be added after installation
- Resistant against water, alkaline and chemical agents
- Resistant to hydrogen sulphide/methane and many other gases
- Non-corrosive
- Complies to ATEX regulations
- Unique design with a tri-flexible foam making positioning cables very simple



Part Number	Maximum Duct Diameter (mm)	Maximum Cable Diameter in the Duct (mm)
<b>FILOSEAL+125MM</b>	MAX Ø 125	MAX Ø 95

Part Number	Maximum Duct Diameter (mm)	Maximum Cable Diameter in the Duct (mm)
<b>FILOSEAL+200MM</b>	MAX Ø 200	MAX Ø 160



## Filoseal+HD Re-enterable Duct Sealing System



### FEATURES

- Up to 2 bar Pressure Resistance
- 100Kg pulling Force on the cables when sealed
- 10xd at 45°, with 1 bar pressure bending test
- Strong hexagonal support system for heavy cables
- Resistant against Water, Alkaline, Chemical agents
- Resistant to Hydrogen Sulphide / Methane and many other Gases



Part Number	Description	Maximum duct diameter (mm)
<b>280010</b>	Filoseal+HD - 75mm > 110mm	Ø 110 max.
<b>280020</b>	Filoseal+HD - 125mm > 160mm	Ø 160 max.
<b>280030</b>	Filoseal+HD - 180mm	Ø 180 max.

Part Number	Description	Maximum duct diameter (mm)
<b>280040</b>	Filoseal+HD - 200mm	Ø 200 max.
<b>280050</b>	Filoseal+HD - 225mm	Ø 225 max.
<b>280060</b>	Filoseal+HD - 250mm	Ø 250 max.

## Filoseal+HD FIRE Re-enterable Duct Sealing System

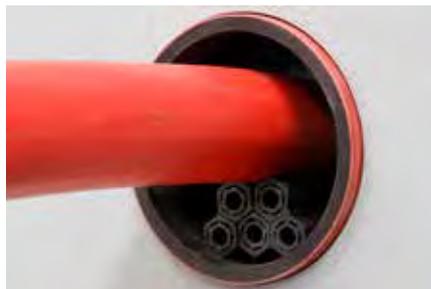


### FEATURES

- Up to 4 hours fire resistance in transit frames (single side)
- Up to 4 hours fire resistance in ducts
- Tested to BS EN1366-3 2009
- Upto 2 bar Pressure Resistance
- 100Kg pulling Force on the cables when sealed
- 10xd at 45°, with 1 bar pressure bending test

Part Number	Description	Maximum duct diameter (mm)
<b>280070</b>	Filoseal+HD FIRE 75 > 110mm	110mm
<b>280080</b>	Filoseal+HD FIRE 125 > 160mm	160mm
<b>280070</b>	Filoseal+HD FIRE 180mm	180mm

Part Number	Description	Maximum duct diameter (mm)
<b>280080</b>	Filoseal+HD FIRE 200mm	200mm
<b>280070</b>	Filoseal+HD FIRE 225mm	225mm
<b>280080</b>	Filoseal+HD FIRE 250mm	250mm



## RDSS Inflatable Duct Seal

### FEATURES

- RDSS Rayflate inflatable duct seal for 32.5 to 180.0mm ducts
- The Rayflate seal consists of an inflatable bladder with a sealing strip which is fitted around the power cable in a duct and inflated to create a watertight seal
- Ideal for both new and existing installations
- Extremely versatile and will adapt to most configurations independent of duct ovality
- Used in conjunction with an inflation tool and gas cylinder
- Please contact sales to confirm which products are suitable for empty ducts



**RDSS Rayflate inflatable duct seal**

Part Number	Duct Inside Diameter mm	Cable Diameter mm
<b>RDSS-45</b>	32.5-45.0	0-32.0
<b>RDSS-60</b>	45.0-60.0	0-45.0
<b>RDSS-75</b>	55.0-75.0	0-56.0

Part Number	Duct Inside Diameter mm	Cable Diameter mm
<b>RDSS-100</b>	75.0-120.0	0-100.0
<b>RDSS-125</b>	100.0-150.0	0-130.0
<b>RDSS-150</b>	125.0-180.0	60-160.0

## Adaptor Seal

### FEATURES

- To seal ducts up to 210mm this adaptor is used in conjunction with the Rayflate duct sealing system

Part Number	Duct Size mm
<b>RDSS-AD-210</b>	150-210



**Adaptor seal for larger sizes of duct**

## RDSS Sealing Clip

### FEATURES

- The sealing clip is used when three or more cables have to be sealed in the same duct
- Designed to be used in conjunction with inflatable duct seal

Part Number	Use with
<b>RDSS-CLIP-45</b>	RDSS-45
<b>RDSS-CLIP-75</b>	RDSS-60 & RDSS-75
<b>RDSS-CLIP-100</b>	RDSS-100
<b>RDSS-CLIP-125</b>	RDSS-125

Part Number	Use with
<b>RDSS-CLIP-150</b>	RDSS-150

**Please note RDSS Clips must be installed with 2 cable configurations when larger cables are installed**



**RDSS sealing clip for use with multiple cables**

## Inflation Tool & Gas Cylinders

### FEATURES

- Designed to inflate the RDSS Rayflate seals

Part Number	Description
<b>RDSS-IT-16</b>	Inflation Tool

Part Number	Description
<b>E7512-0160</b>	Gas Cylinders (Box of 10)



**Inflation tool and gas cylinders**

## We're Here to Help You!



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With branches throughout the UK there is always someone close by that can help you.

Our knowledgeable team have hundreds of years combined experience and are confident that no matter what your project needs we will be able to advise and support you.

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**THE POWER TO DELIVER**



# Jointing Tech

## Rail | Cable troughing



**In the rail industry, power and signaling cables often need protection from the environment, accidental damage or vandalism.**

Jointing Tech provide a full range of troughing systems that overcome any of these problems.

Whether it be ground level or elevated applications Jointing Tech can supply all your needs with fully PADS approved products encompassing off the shelf items available for immediate delivery or full project support for even the largest installations.

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**THE POWER TO DELIVER**

# Cable Troughing

## Contents

Lightweight Cable Trough **204**



## TroTrof

### FEATURES

- Lightweight cable trough weighing just 18kgs
- Has full Network Rail PADS approval, Certificate Number PA05/02512
- Both lid and base interact with concrete making it ideal for upgrade projects
- Over four times faster to install than the concrete alternative
- Complies with HSE manual handling guidelines
- Environmentally friendly made from recycled polymers.
- Dimensions C1/9
- Anti-Vandal/Anti-Theft features



Part Number	Length	Width	Height	Weight
<b>TROTROF</b>	1000mm	281mm	206mm	18kg

### Transportation Comparison

	TroTrof	Concrete Trough
Units/Pallets	20	42 lids/pallet 24 bases/pallet
Transport for 960 units	1 truck	4.4 trucks
Transport for 10,000 units	11 trucks	44 trucks

### Health & Safety Comparison

	TroTrof	Concrete Trough
Lifting	One man lift	Two men lift
Cutting	Standard tools	Petrol disc cutter
Dust/Noise	No	Yes
Finish	Smooth	Abrasive
Carbon Footprint	Medium	High
Recyclable	Yes	No

## TroTred

### FEATURES

- Made up of 5 components, 44kg in total (max component weight 12kg)
- Has full network rail PADS approval, Certificate Number PA05/04103
- Doubles up as a walkway eliminating need for additional paths.
- Self-extinguishing and complies with Network Rail specifications
- Over four times faster to install than the concrete alternative
- Complies with HSE manual handling guidelines
- Environmentally friendly made from recycled polymers
- Anti-Vandal/Anti-Theft features



Part Number	Length	Width	Height	Weight
<b>TROTRED</b>	1000mm	736mm	385mm	44kg

### Transportation Comparison

	TroTrof	Concrete Trough
Units/Pallets	4 complete units	9 bases 15 lids
Transport for 1,000 units	5 trucks	10 trucks
Transport for 10,000 units	50 trucks	100 trucks

### Health & Safety Comparison

	TroTrof	Concrete Trough
Lifting	Two man lift	4 men/base 3 men/lid
Cutting	Standard tools	Petrol disc cutter
Dust/Noise	No	Yes
Finish	Smooth	Abrasive
Carbon Footprint	Medium	High
Recyclable	Yes	No

# Tools and Equipment

## Contents

Hand Hydraulic Crimp Tools	<b>206</b>
Battery Operated Hand Crimpers	<b>207</b>
Hydraulic Press Heads	<b>208</b>
Hydraulic Pumps	<b>209</b>
Battery Operated Hand Cutters	<b>210</b>
Hydraulic Cutting Tools	<b>211</b>
Crimp Dies	<b>212</b>
Hydraulic Hole Punching Tools	<b>213</b>
Cable Preparation Tools	<b>214</b>
Cutting/Preparation Tools	<b>215</b>
Tool Hire	<b>218</b>
Pfisterer/Spiking Tool	<b>220</b>
Safety Equipment	<b>221</b>
Gas Torch Kits & Accessories	<b>223</b>
Band-It Tooling	<b>224</b>

## Hydraulic Hand Crimper 10-400mm<sup>2</sup>

### FEATURES

- Self contained, robust and sturdy while remaining lightweight
- Features a double speed action with rapid approach and slower more powerful speed for crimping
- 180° rotation for ease of operation and comfort for operator
- Built in safety valve will bypass the oil supply when maximum pressure is reached
- Accepts ME-C hex dies and MA-C and PA-C nest and indent
- Complete with carry case for tool and dies



Hydraulic crimping tools

Part Number	Die Range	Conductor Size
HT131	ME-C	10-400mm <sup>2</sup>

## Hydraulic Hand Crimper 10-150mm<sup>2</sup>

### FEATURES

- Self contained, robust and sturdy while remaining lightweight
- Features a double speed action with rapid approach and slower more powerful speed for crimping
- 180° rotation for ease of operation and comfort for operator
- Built in safety valve will bypass the oil supply when maximum pressure is reached
- Accepts ME hex dies and MA and PA nest and indent
- Complete with carry case for tool and dies



Hydraulic crimping tools

Part Number	Die Range	Conductor Size
HT45-E	ME	10-150mm <sup>2</sup>

## Hand Hydraulic Hand Crimper 10-240mm<sup>2</sup>

### FEATURES

- Self contained, robust and sturdy while remaining lightweight
- Features a double speed action with rapid approach and slower more powerful speed for crimping
- 180° rotation for ease of operation and comfort for operator
- Built in safety valve will bypass the oil supply when maximum pressure is reached
- Accepts ME-50 hex dies and MA-50 and PA-50 nest and indent
- Complete with carry case for tool and dies



Hydraulic crimping tools

Part Number	Die Range	Conductor Size
HT51	ME-50	10-240mm <sup>2</sup>

## Hydraulic Battery Crimper 10-240mm<sup>2</sup>



### FEATURES

- B500 is the first of a new generation of hand-held cordless tools heralding a significantly advantageous evolution from current models
- Equipped with Li-Ion 18V 4 Ah battery offering greater capacity than the previous 14.4V Ah version
- Suitable for crimping conductors up to and including 240mm<sup>2</sup>
- Complete with LED light for darker working areas
- Faster compression and greater crimping force result from new two-speed hydraulic system
- Fitted with a maximum pressure sensor for enhanced precision and repeatability
- New OLED display provides essential real time data including force generated, battery life and number of work cycles left before maintenance
- 180° head rotation
- Consists of 2 x batteries, battery charger, shoulder strap and carry case

Part Number	Die Range	Conductor Size
<b>B500</b>	ME-50	10-240mm <sup>2</sup>

## Hydraulic Battery Crimper 10-400mm<sup>2</sup>



### FEATURES

- Born of the renowned B135-C crimping tool, first into the market is the 132kN B1350-CE, suitable for a wide range of connectors upto 400mm<sup>2</sup> using the die sets common to the Cembre 130kN tooling range
- Equipped with Li-Ion 18V 4 Ah battery offering greater capacity than the previous 14.4V Ah version
- Faster compression and greater crimping force result from new two-speed hydraulic system
- Fitted with a maximum pressure sensor for enhanced precision and repeatability
- New OLED display provides essential real time data including force generated, battery life and number of work cycles left before maintenance
- Complete with LED light for darker working areas
- 180° head rotation
- Consists of 2 x batteries, battery charger, shoulder strap and carry case

Part Number	Die Range	Conductor Size
<b>B1350-CE</b>	ME-C	10-400mm <sup>2</sup>

## Hydraulic Press Head 10-400mm<sup>2</sup>

### FEATURES

- Hydraulic press head complete with quick release coupling to connect head to pump with max operating pressure of 700 bar
- Lightweight at only 3.8kg
- Compatible with a range of dies that accept Cu/Alu lugs/splices and C tap connectors at LV and HV voltages
- Head compatible with both PO7000/B70-P24 and EP10 electric pump



**RHC 131 type hydraulic press head for 10-400mm<sup>2</sup> cables**

Part Number	Die Range	Conductor Size
RHC131	ME-C	10-400mm <sup>2</sup>

## Hydraulic Press Head 400-630mm<sup>2</sup>

### FEATURES

- Hydraulic press head complete with quick release coupling to connect head to pump with max operating pressure of 700 bar
- Lightweight at only 5.5kg
- Adaptor type AU230-130D is available as an optional extra enabling the head to utilise smaller ME-C, MA-C and PA-C dies
- Head compatible with both PO7000/B70-P24 and EP10 electric pump



**ECW-H3D type hydraulic press head for 400-630mm<sup>2</sup> cables**

Part Number	Die Range	Conductor Size
ECW-H3D	ME-3D	400-630mm <sup>2</sup>

## Hydraulic Press Head 400-1000mm<sup>2</sup>

### FEATURES

- Hydraulic press head complete with quick release coupling to connect head to pump with max operating pressure of 700 bar
- Weight is 18kg
- Complete with two handles on either side of the head for ease of use
- Adaptor type AU520-130C is available as an optional extra enabling the head to utilise smaller ME-C, MA-C and PA-C dies
- Head compatible with both PO7000/B70-P24 and EP10 electric pump



**RHU-520 type hydraulic press head for 400-1000mm<sup>2</sup> cables**

Part Number	Die Range	Conductor Size
RHU-520	ME-520	400-1000mm <sup>2</sup>

**Electric Pump**



**Foot and electric hydraulic pumps**

**FEATURES**

- Electrically driven hydraulic pump, powered by 110V/50-60hz single phase electric motor
- Piston type high pressure pump supercharged by a low pressure pump
- Extremely durable yet lightweight and operates under low-line voltage conditions
- Comes complete with a remote hand controller with 10 foot cord
- Operates up to 10000PSI

Part Number	Description
<b>EP10 ELECTRIC PUMP</b>	110 Volt

**Foot Pump**



**PO-7000 hydraulic pump**

**FEATURES**

- Foot operated hydraulic pump developing a maximum of 700 bar of pressure
- Mounted on a solid shaped stand giving the pump stability during operation
- Complete with a 3m high pressure hose with female quick release coupler
- Lightweight at only 9.8kg
- Complete in plastic hard wearing carry case

Part Number	Description
<b>PO 7000</b>	Foot Pump

**Electro-Hydraulic Pump (battery)**



**B70M-P24 lightweight pump**

**FEATURES**

- Operating at 24v dc by battery for independent use and developing 700 bar pressure
- Complete with 3m hose and quick couplers, remote control, shoulder strap, external battery charger and canvas holdall for carrying accessories
- Also available in an insulated version - contact our sales team for more info

Part Number	Description
<b>B70M-P24</b>	Hydraulic Electric Pump
<b>TRS-B70</b>	Canvas Rucksack For B70m-P24
<b>SPARE BATTERY</b>	For The B70m-P24

## Hydraulic Battery Cutter 50mm Max

### FEATURES

- B-TC500E is the next generation of Cembre cordless hydraulic tools and features significant advantages over current models
- Has a NEW Li-Ion 18V 4 Ah battery offering higher capacity than 14.4 V 3 Ah
- High strength steel blades are heat treated to ensure long lifespan
- Suitable for copper and aluminium cable having a max diameter of 50mm
- The head can rotate 180 degree to enable the operator to work in the most comfortable position
- B-TC500E comes with a fitted LED light for a safer working area
- Maximum pressure sensor and pressure relief valve assures precision and repeatability
- The new generation of tooling boasts a OLED display which provides real time information including crimping force, battery life, life cycle with service intervals.
- Comes complete with shoulder strap, spare battery, charger and carry case



Part Number	Maximum Cutting Diameter	Weight
<b>B-TC500E</b>	50mm	5.8kg

## Hydraulic Battery Cutter 65mm Max

### FEATURES

- B-TC650-SCE is the next generation of Cembre cordless hydraulic tools with significant advantages over current models
- Features NEW Li-Ion 18V 4 Ah battery offering higher capacity than 14.4 V 3 Ah
- High strength steel blades are heat treated to ensure long lifespan
- Suitable for copper and aluminium cable having a max diameter of 65mm
- The head can rotate 180 degree to enable the operator to work in the most comfortable position
- B-TC650-SCE comes with a fitted LED light for a safer working area
- A maximum pressure sensor and pressure relief valve assures precision and repeatability
- The new generation of tooling boasts an OLED display which provides real time information including crimping force, battery life, life cycle with service intervals
- Comes complete with shoulder strap, spare battery, charger and carry case



Part Number	Maximum Cutting Diameter	Weight
<b>B-TC650E</b>	65mm	6.4kg



## Hand Held Cutting Tools



### FEATURES

- Hydraulic hand tools designed to cut both copper and aluminium cables
- Fast advance speed for rapid approach of the blades to the cable and a slower more powerful speed for cutting
- Blades are manufactured from high strength special steel, heat treated for longer service life
- Heads can be easily opened to allow cutting of running cables
- HT-TC051 can rotate the head 90° with the HT-TC0851 being able to complete 180° of rotation
- Both tools have a bypass oil safety valve for when tools are at maximum pressure
- HT-TC051 comes complete in a carry bag with the HT-TH0851 coming in a carry case

Part Number	Maximum Cutting Diameter	Weight
HT-TC026	25mm	3.2kg
HT-TC051	50mm	4.4kg

Part Number	Maximum Cutting Diameter	Weight
HT-TC0851	85mm	6.6kg



## Hand Held Cutting Tools



### FEATURES

- Hydraulic cutting heads designed to cut both copper and aluminium cables
- Fast advance speed for rapid approach of the blades to the cable and a slower more powerful speed for cutting
- Blades are manufactured from high strength special steel, heat treated for longer service life
- Heads can be easily opened to allow cutting of running cables
- Working pressure of all cutting heads are 700Bar Max
- All complete with a quick release male coupling for connection to hydraulic pump
- All complete with a handle which allows the most comfortable positioning of the head onto the cable

Part Number	Maximum Cutting Diameter	Weight
TC096	95mm	7.9kg
TC085	85mm	4.9kg

Part Number	Maximum Cutting Diameter	Weight
TC120	120mm	9.5kg

## Cembre Dies

### ORDERING

■ To ensure the correct dies are selected please contact our sales team

Tool Type	Part Number	Conductor size range mm <sup>2</sup>	Conductor	Number of dies in range	Die Type
LV Dies For "G Type 131 Heads"	MA-C	10-300	Copper	12	Nest
LV Dies For "G Type 131 Heads"	PA-C	10-300	Copper	4	Indentor
LV Dies For "G Type 131 Heads"	ME-C	10-400	Copper	13	Hexagonal
LV Dies For "Ecw-3D Head"	MA-3D	400-630	Copper	3	Nest
	PA-3D	400-630	Copper	2	Indentor
	ME-3D	400-630	Copper	3	Hexagonal
	AU230-130D		Copper	1	Adaptor Die For "G Type 131 Head"
LV Dies For "Rhu-520 Head"	MA-520	400-1000	Copper	5	Nest
	PA-520	400-1000	Copper	2	Indentor
	MK-520	400-1000	Copper	5	Hexagonal
	AU520-130C		Copper	1	Adaptor Die For "G Type 131 Head"
HV Dies For "G Type 131 Heads"	ME-C	10-400	Copper	13	Hexagonal
HV Dies For "Ecw-3D Head"	ME-3D	400-630	Copper	3	Hexagonal
HV Dies For "Rhu-520 Head"	MK-520	400-1000	Copper	5	

## Cembre LV & HV Copper Terminals

Conductor Size (mm <sup>2</sup> )	Terminals			Tool				
	Stranded	Cembre LV Lugs	Cembre LV Splices	Cembre HV Lugs	HT45E / B35-45	HT50 / B51 / RH50	HT131 / B135	ECW-H3D
0.25-2.5	A03-M-A06-M	L03-M-L06-M						
4-6	A1-M	L1-M		ME1	ME1-50			
10	A2-M	L2-M		ME2	ME2-50	Me2-c	AU230-130D + ME2-C	Au520-130C + Me2-C
16	A3-M	L3-M	2A3-M	ME3	ME3-50	Me3-c	AU230-130D + ME3-C	Au520-130C + Me3-C
25	A5-M	L5-M	2A5-M	ME5	ME5-50	Me5-c	AU230-130D + ME5-C	Au520-130C + Me5-C
35	A7-M	L7-M	2A7-M	ME7	ME7-50	Me7-c	AU230-130D + ME7-C	Au520-130C + Me7-C
50	A10-M	L10-M	2A10-M	ME10	ME10-50	Me10-c	AU230-130D + ME10-C	Au520-130C + Me10-C
70	A14-M	L14-M	2A14-M	ME14	ME14-50	Me14-c	AU230-130D + ME14-C	Au520-130C + Me14-C
95	A19-M	L19-M	2A19-M	ME19	ME19-50	Me19-c	AU230-130D + ME19-C	Au520-130C + Me19-C
120	A24-M	L24-M	2A24-M	ME24	ME24-50	Me24-c	AU230-130D + ME24-C	Au520-130C + Me24-C
150	A30-M	L30-M	2A30-M	ME30	ME30-50	Me30-c	AU230-130D + ME30-C	Au520-130C + Me30-C
185	A37-M	L37-M	2A37-M		ME37-50	Me37-c	AU230-130D + ME37-C	Au520-130C + Me37-C
240	A48-M	L48-M	2A48-M		ME48-50	Me48-c	AU230-130D + ME48-C	Au520-130C + Me48-C
300	A60-M	L60-M	2A60-M			Me60-c	AU230-130D + ME60-C	Au520-130C + Me60-C
400	A80-M	L80-M	2A80-M			Me80-c	ME80-3D	Me80-520
500	A100-M	L100-M	2A100-M				ME100-3D	Me100-520
630	A120-M	L120-M	2A120-M				ME120-3D	Me120-520
800	A160-M	L160-M	2A160-M					Me160-520
1000	A200-M	L200-M	2A200-M					Me200-520

### ORDERING

- Aluminium dies also available
- Circumferential and Hex DIN dies also available

**Cordless Hydraulic Puller-Type Hole Punching Tool B-FL750E**



**FEATURES**

- Cordless hydraulic tool, for hole punching stainless steel, soft metal, fibreglass and plastic sheet up to 3.5mm thick
- The balanced punching head pivots 180° through a full 360° rotation
- OLED display provides essential real time information including crimp force, battery life and service schedule
- Tool comes complete with shoulder strap, spare battery, charger, TD-11 & TD-19 puller, spiral bit and carrying case

Part Number	Hole Punch Size	Weight
<b>B-FL750E</b>	15.5mm-120mm <sup>2</sup>	5.1kg

**HT-FL75**



**FEATURES**

- Hand operated hydraulic tool designed for hole punching stainless steel, soft metal, fibreglass and plastic sheet upto 3.5mm thick
- Compact, lightweight and easy to handle
- Tool comes complete with plastic carry case, TD11 and TD19 pullers and an 11.5mm spiral bit

Part Number	Hole Punch Size	Weight
<b>HT-FL75</b>	15.5mm-120mm <sup>2</sup>	3.7kg

**RH-FL75**



**FEATURES**

- Hydraulic head designed for hole punching stainless steel, soft metal, fibreglass and plastic sheet up to 3.5mm thick
- Compact, lightweight and easy to handle
- Quick release coupler for connection to hydraulic pump
- Tools comes complete with TD11 and TD19 pullers and an 11.4mm spiral bit

Part Number	Hole Punch Size	Weight
<b>RH-FL75</b>	15.5mm-120mm <sup>2</sup>	1.9kg

**For more details on hole punch dies please contact your nearest branch.**

## Cable Stripping Tools

### FEATURES

- Tools for cable stripping low and medium voltage cables

Part Number	Description
<b>CERAMIC KNIFE</b>	Utility knife with non-conductive ceramic blade
<b>EXRM-0607</b>	Wooden Handled Cable Stripping Knife
<b>EXRM-0947</b>	Hook Knife For Outersheath Stripping
<b>120-CS</b>	Insulated Hack Knife
<b>EXRM-1004</b>	Paper Cable Insulation Stripping Pliers
<b>CABLE KNIFE</b>	Utility knife complete with Stanley blade and cover



**A selection of cable stripping tools**

## Universal Plastic Sheath Stripper

### FEATURES

- Single hand operation
- Complete with two depth fittings

### Part Number

**KMS**

**KMS BLADE**



**Outer sheath removal tool**

## Diameter Tape

### FEATURES

- Used to confirm the diameter for cables and cable insulations

### Part Number

**IT-1000-010**

### Description

Joiner's diameter measuring tape



**Diameter tape**

**Hand Cutting Tools**



**Hand tools for cable core cutting upto 500mm<sup>2</sup>**

**FEATURES**

- Long handles for easy cutting
- Used for unarmoured cables and cutting of conductors and screen wires
- Please refer to hydraulic section for cutting of armoured cables

Part Number	Conductor Size
5116660250	6-250mm <sup>2</sup>
5116660500	6-500mm <sup>2</sup>

**Roller Chain Tongs**



**Armour wire removal tool**

**FEATURES**

- For the removal of the steel wire or aluminium wire armour of power cables
- Adjustable to suit armour diameters up to 76mm

Part Number	Over Armour Diameter
RCT155	20 - 76mm
RCT SPARE CHAIN	-

**RC52 Ratchet Cutting Tool**



**Ratchet cutting tools for cables**

**FEATURES**

- Designed for use on copper and aluminium conductors
- High quality steel ratchet mechanism for optimised mechanical advantage
- Moveable blades can be easily released
- Not for use on armoured cables
- See hydraulic section for cutting of armoured cables

Part Number	Cutting Range
RC-52	Up to 52mm
KT-4	Up to 52mm

**HP3 Ratchet Crimp Tool**



**HP3 Ratchet Crimp Tool**

**FEATURES**

- Compact, easy to use manual tool
- Treated steel crimp jaws with high mechanical properties
- Factory set ratchet for crimping control (automatic handle opening upon completion of crimping operation)
- Emergency release lever which, if necessary, opens the crimp jaws before their complete closure
- Ergonomically designed non-slip moulded plastic grips

Part Number	Size
HP3	0.5 - 6mm

## Outer Sheath Strippers

### FEATURES

- Can also be used for removal of primary insulation and lead alloy sheaths
- For circular and longitudinal cuts
- Fully insulated stripper available (PG3-EC)

Part Number	Sheath Diameter	Part Number	Sheath Diameter
PG2-HTA	21-35mm	PG4-HTA	47-75mm
PG3-HTA	26-51mm	PG5-HTB	65-95mm
PG3-EC	26-51mm	PG6-HTB	80-125mm



Outer sheath removal tool

## Peelable Semi-Conductive Screen Stripper

### FEATURES

- The LHM tools allow simple and easy removal of peelable semi-conductor
- The tool works by creating a precise spiral incision with an offset circular blade on the semi-conductor which allows it to be neatly unwrapped
- The remaining length of exposed semi-con can be set depending on the tool used

Part Number	Diameter over Screen
LHM1R30/45	14-40mm
LHM2R30/60	38-60mm



For use on easy peel cable screens

## Pre-set Scoring Tool

### FEATURES

- Two different tools for use at either 11 or 33kV
- Pre-set blade depth allows easy scoring and screen removal

Part Number	Diameter	Use with
TT2352/1	0.4mm	For 11kV
TT2352/2	0.6mm	For 33kV



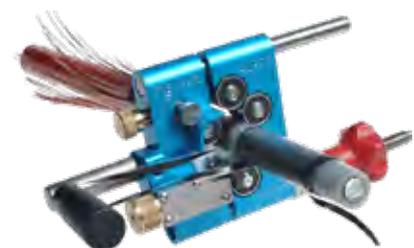
For use on easy peel cable conductive screens

## Bonded Screen Removal Tool

### FEATURES

- This tool enables the user to remove and chamfer the bonded semiconductor in a clean and swift manner without the use of silicon
- The blade is adjustable from 0.4mm to 1.4mm with "clicking knob" (0.1mm for each click)
- The angle of the chamfer is 8°
- Tool will accommodate insulation

Part Number	Diameter over Screen
CWB18-60	18-60mm



For removal and chamfer of bonded screen

**Bonded Screen Removal Tool**



**Designed to remove the cable's bonded screen**

**FEATURES**

- Removes bonded semi conductive screens from XLPE cables
- Depth adjustment from 0-1.5mm
- Application range over semi conductive screen is between 0-52mm O/D
- Stripping can be done starting at any position on the cable
- Advised to be used on Vulcanized, extruded and bonded semi conductive screens

Part Number	Insulation Diameter	Depth of Cut
<b>BSR700</b>	10-52mm	0-1.5mm
<b>BSR700 SPARE BLADE</b>	-	-

**Adjustable Insulation Tapering Tool**



**Provides a chamfered finish at the screen removal points**

**FEATURES**

- LHA tool tapers the end of XLPE insulation and allows a better penetration of pre-moulded joints

Part Number	To make a Chamfer
<b>LHA</b>	14 - 40mm
<b>LHA2</b>	38-60mm
<b>LHA3</b>	60-80mm

**Screen and Insulation Removal Tool HVIA Stripper 35/90**



**FEATURES**

- Stripping tool for extruded and bonded cable screens and primary insulation for cable diameter from 35-90mm or 75-150mm
- For use on medium and high voltage cables
- Adjustable to cable diameter via the red twist handle
- Tool is supplied with blades packed separately in the case
- Advised to apply a thin layer of silicone lubricant to screen for easy movement

Part Number	Cable Diameter
<b>HVIA-STRIPPER 35-90</b>	35-90mm
<b>HVIA-STRIPPER 75-150</b>	75-150mm

**Toolout Hire**

**FEATURES**

- Jointing Technologies have the largest hire fleet of crimping and cutting tools in the country
- All available on a next working day delivery (on orders placed before 4pm)
- All tools are calibrated and checked prior to dispatch to ensure they are in full working order

**Hydraulic Crimping**



**FEATURES**

- Also available in hand tool version
- Dies available 10-1000mm<sup>2</sup> copper/aluminium LV/HV
- Please state cable type and size

**Hydraulic Cutting**



**FEATURES**

- Also available in hand tool version
- TC120 cutting head - max cutting diameter of 120mm
- HT-TC085 cutting hand tool - max cutting diameter of 85mm

**Battery Crimping**



**FEATURES**

- Dies available 10-1000mm<sup>2</sup> copper/aluminium LV/HV
- Please state cable type and size

**Battery Cutting**



**FEATURES**

- TC120 cutting head - max cutting diameter of 120mm

**Hydraulic Crimp & Cut**



**FEATURES**

- Dies available 10-1000mm<sup>2</sup> copper/aluminium LV/HV
- TC120 cutting head - max cutting diameter of 120mm
- Please state cable type and size

**Battery Crimp & Cut**



**FEATURES**

- Dies available 10-1000mm<sup>2</sup> copper/aluminium LV/HV
- TC120 cutting head - max cutting diameter of 120mm
- Please state cable type and size

**FEATURES**

- Long term hire deals available - Please contact our sales department for further information
- All hire prices include die sets - to ensure the correct sizes are supplied please advise at time of order
- Dies are available for copper and aluminium cables, C-taps and elbow contacts

**Cable Spiking Tool**

**FEATURES**

- Used for spiking power cables prior to jointing, terminating or repair



**Pfisterer Tool**

**FEATURES**

- Standard size 1, 2, 3 tool
- Larger sizes 4-5S and 6 also available on request



**Cable Jack & Spindle**



**FEATURES**

- Both 3 or 6 ton versions available
- Due to size and weight additional carriage may apply on this item. Contact your local sales office for more information

**TDUX Duct Seal Inflation Tool**



**FEATURES**

- Complete with pressure gauge to ensure correct installation
- Please order gas separately - see page 200

**Tool Repair & Calibration**

**FEATURES**

- Cembre and Prysmian approved repairer
- Calibration certificates supplied
- Estimates provided prior to works
- Reconditioned tools available
- All tools must be calibrated after each hire to comply with BS7671 (UK Wiring Regulations)



## Pfisterer Tool

### FEATURES

- Tools comprises of the following
  - Carry case
  - Compression head size 1,2,3 including pull off head
  - Impact device 1,2,3 for preassemble of connector contacts
  - Hydraulic 60816 Compression tool
  - Chain for suspension of assembly lever and hole bar
  - T-handle screw driver SW6
  - Assembly lever for pressing and releasing the bell housing
- For installation of Connex connectors size 1, 2 and 3. For sizes 4, 5 and 6 - please contact our sales team



**Connex installation tool**

Part Number	Description
PFISTERER TOOL	For size 1, 2, 3

## Spiking Tool

### FEATURES

- The Bowthorpe Cable Spiker is intended to prove that a selected cable, previously disconnected, is in fact dead before site work commences
- Silent in operation and of a robust and rigid construction
- The kit comprises a hand operated hydraulic pump connected by a fully insulated hose to a hydraulic ram which carries the diamond shaped chisel cable spike
- All component parts are supplied in a stout wooden carrying case
- Ram is mounted on a shaped tubular steel body which is located and held around the cable up to 102mm diameter
- An independent earth cable 6m x 50mm<sup>2</sup> with suitable connecting lugs are also supplied
- **WARNING:**  
 This spiker must not be used without an earth cable connected and properly earthed as failure to do so could have serious consequences for the operator in the event of a live cable being pierced



**Cable spiker kit**

Part Number	Description
SG1	Up to 102mm cable diameter

### Rubber Switchgear Matting



#### FEATURES

- Maximum coil size is 10 metres
- Can be cut to specific length - price always rounded up to next complete metre

Part Number	Thickness	Tested to	Working Voltage
<b>LVRM6</b>	6mm	15,000 volts	450 volts
<b>LVRM9</b>	9mm	15,000 volts	650 volts
<b>HVRM</b>	4mm	50,000 volts	11,000 volts

### Insulating Gloves



#### FEATURES

- Fully insulating gloves each test stamped for working voltages ranging from 500V-36000V
- Manufactured to EN60903
- Available in four sizes
- Gloves are tested by inflation and visual inspection carried out by a pneumatic glove tester

Part Number	Voltage Class	Size
<b>0583</b>	00	8, 9, 10, 11
<b>0584</b>	0	8, 9, 10, 11
<b>0585</b>	1	8, 9, 10, 11
<b>0586</b>	2	8, 9, 10, 11
<b>0587</b>	3	8, 9, 10, 11
<b>0588</b>	4	8, 9, 10, 11

### Leather Outer Gloves



#### FEATURES

- Fully insulated gloves each test stamped for working voltages ranging from 500V to 36000V
- Worn over the insulating gloves to protect against mechanical hazards and electrical arcing
- Available in sizes 8-12

Part Number	Size
<b>058L</b>	8 - 12

## Dielectric Boots

### FEATURES

- Dielectric boots in various sizes from 6 to 13
- Certified protection against electric shock
- Oil and chemical resistant sole
- Conforms to EN345-1.SB and EN50321 Class 0
- Overall boot tested to 20kV



Dielectric Boots

Part Number	Size	Part Number	Size
871906/40	6	871909/44	10
871907/41	7	871911/45	11
871908/42	8	871911/46	12
871909/43	9	871911/47	13

## Safety Hook

### FEATURES

- Safety rescue hook used for retrieval of victims of electric shock
- Rated for systems up to 60kV
- Safeguards the life of the first aider
- Should be placed in a prominent and easily accessible position near to the live site



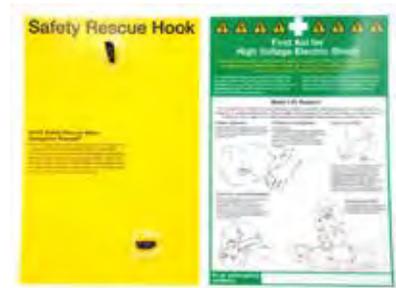
Safety Hooks

Part Number	Voltage Class	Size (Length)
509049	Up to 60kV	1950mm
509048	Up to 1kV	1000mm

## Safety Rescue Hook Station

### FEATURES

- The hook station offer a safe storage place for the rescue hook
- Detailed on the hook station are basic life support checks and techniques for the first aider to administer prior to paramedics arriving
- Hook station and hook should be in a prominent and easily accessible position near to the live site
- Hook not included



Safety Rescue Hook Station

Part Number	Voltage Class	Size (Length)
509050	1kV	580 x 450
509051	60kV	580 x 805

**Gas Torch Kit complete with Burner, Hose and Handle**



**Gas torch kit**

**FEATURES**

- Kit designed specifically for jointers
- Two different burners for the complete range of heat shrinking applications
- Please note all items, including cut-to-length hose, can be bought separately

**Part Number    Kit Contents**

<b>TOL/GTK</b>	Complete safety handle, soft flame burner, 4m hose with all end fittings attached, carry case and regulator
----------------	---

**Handle for Gas Torches**



**Gas torch handle**

**FEATURES**

- Piezo ignition with instant trigger on/off function
- Bayonet fitting for burners
- Valve for precise flame setting
- Hose connection BSP 3/8" LH

**Part Number**

**Working Pressure Bar**

<b>H3366</b>	1.5-4
--------------	-------

**Hot Air and Soft Flame Burners**



**Hot air burners**

**FEATURES**

- Hot-air burners with powerful windproof hot-air streams for heat shrinking
- 3349 ideal for shrinking in confined spaces and fibre optic closures
- 3359 is an extra small hot-air burner incorporating a heat reflector, ideal for signal systems, traffic lights, alarm systems, marine applications, automobiles and other vehicle repairs
- Work pressure - 2 bar
- Soft flame design ideal for cable work and other heat shrinking applications
- Soft flame burners with sweeping, powerful yellow and blue soot-free windproof flames

Part Number	Type	Burner Diameter
<b>HAB32-15 (3349)</b>	Hot Air Burner	32x15mm
<b>HAB 25 (3359)</b>	Hot Air Burner	25mm
<b>SFB28 (334791)</b>	Soft Flame Burner	28mm

Part Number	Type	Burner Diameter
<b>SFB38 (334191)</b>	Soft Flame Burner	38mm
<b>SFB50 (334891)</b>	Soft Flame Burner	50mm

**Regulator for Gas Torches**



**Gas torch regulator**

**FEATURES**

- Suitable for use with the H3366 handle
- Hose connection bsp 3/8" lh

**Part Number**

**Working Pressure Bar**

<b>3091-21</b>	2
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**Light and Heavy Duty Applications**

**FEATURES**

- C001 tool is for light and heavy duty band and buckle products
- Tensions up to 2400lbs - for use on band up to 3/4"
- C007 tool is for light duty coated or uncoated band and bandfast clamps
- Hand ratchet mechanism

**Part Number**

**C001 TOOL**

**C075 TOOL - BANTAM**



**Cable Tie Tensioning Tool**

**FEATURES**

- AE200 tensions all re-useable Band-it ties
- AE201 hook tool tensions all re-usable and multilock ties

**Part Number**

**AE200 TOOL**

**AE201 TOOL**



**Hand tension tool**

**Cable Tie Tensioner with Auto Cut Mechanism**

**FEATURES**

- M503 tool - adjustable/variable tension prevents over tensioning of Multi-lok ties
- Can be used on both coated and uncoated Multi-lok ties
- K502 tool - adjustable/variable tension prevents over tensioning of Ball-lok ties
- Can be used on both coated and uncoated Ball-lok ties
- KE922 manual tool for use with multi-lok and Ball-lok ties
- Automatic cut off
- Weight 0.43kg

**Part Number**

**M503 TOOL**

**K502 TOOL**



**For use with Band-it coated and uncoated Multi-lock ties**

**Cable Tie Tensioner and Cutter**

**FEATURES**

- Variable/adjustable tension prevents over tensioning of ties
- Can be used on both coated and uncoated Ball-Lok ties
- Can be used on both coated and uncoated ties

**Part Number**

**KE9229**



**For use with Band-it Multi-lok and Ball-lok ties**

# Cable Data

## Contents

Selector Table	<b>226</b>
LV Single Core XLPE Cables	<b>227</b>
LV Two & Three Core XLPE Cables	<b>228</b>
LV Four Core XLPE Cables/ 3.3kV Three Core XLPE Cables	<b>229</b>
LV & 3.3kV Three & Four Core PILC Cables	<b>230</b>
Multi-core & Multi-paired Cables	<b>231</b>
Fireproof Cables	<b>232</b>
11kV XLPE Cables	<b>233</b>
22kV XLPE Cables	<b>234</b>
33kV XLPE Cables	<b>235</b>
11kV PILC & PICAS Cables	<b>236</b>

Cable Gland & Cleat Selector

For XLPE/SWA/PVC and LSF 600/1000 Volt Power Cables

CABLE SPEC		CLEATS				GLANDS		
Conductor Area mm <sup>2</sup>	Number of cores	Telcleats 385AA	Aluminium Claw Cleats 370BA	Plastic LSF Cleats E	Aluminium Cleats SW1/2B	BW Indoor	CW Indoor/Outdoor	E1W E1WF
1.5	2	1	1	0	-	20S	20SS	20SS
	3	1	1	0	-	20S	20SS	20SS
	4	1	1	0	-	20S	20S	20S
	7	2	2	1	2	20S	20S	20S
	12	3	3	2	3	20	20	20
	19	4	4	3	4	25	25	25
	27	5	5	4	5	25	25	25
	37	6	6	5	6	32	32	32
2.5	48	6	6	5	6	32	32	32
	2	1	2	0	2	20S	20S	20S
	3	1	2	1	2	20S	20S	20S
	4	2	2	1	2	20S	20S	20S
	7	2	3	2	3	20	20	20
	12	4	4	3	4	25	25	25
	19	5	5	4	5	25	25	25
	27	6	6	5	6	32	32	32
4	37	6	6	6	6	40	40	40
	2	2	2	1	2	20S	20S	20S
	3	2	2	1	2	20	20	20
6	4	3	3	2	3	20	20	20
	2	3	3	2	3	20	20	20
	3	3	3	2	3	20	20	20
10	4	4	4	3	4	20	20	20
	2	4	4	3	4	25	25	25
	3	4	4	3	4	25	25	25
16	4	4	5	4	5	25	25	25
	2	4	4	3	4	25	25	25
	3	4	5	4	5	25	25	25
25	4	5	6	4	6	25	25	25
	2	4	4	4	4	25	25	25
	3	5	6	5	6	32	32	32
35	4	6	6	5	6	32	32	32
	2	5	5	5	5	32	32	32
	3	5	6	5	6	32	32	32
50	4	6	6	5	6	32	32	32
	2	5	6	5	6	32	32	32
	3	6	6	5	6	32	32	32
70	4	6	6	6	6	40	40	40
	2	6	6	5	6	32	32	32
	3	6	7	6	7	40	40	40
95	4	7	7	7	7	40	40	40
	2	6	7	6	7	40	40	40
	3	7	7	7	7	40	40	40
120	4	8	8	7	8	50	50	50S
	2	7	7	6	7	40	40	40
	3	7	8	7	8	50	50	50S
150	4	8	9	8	9	50	50	50
	2	7	8	7	8	50	50	50S
	3	8	9	8	9	50	50	50S
185	4	-	10	9	10	50	50	50
	2	8	9	8	9	50	50	50S
	3	8	9	9	9	50	50	50
240	4	-	10	10	10	63	63	63S
	2	8	9	8	9	50	50	50
	3	-	10	10	10	63	63	63S
300	4	-	11	11	11	63	63	63
	2	-	10	9	10	63	63	63S
	3	-	11	11	11	63	63	63
400	4	-	12	12	12	75	75	75S
	2	-	11	10	11	63	63	63
	3	-	12	12	12	75	75	75S
	4	-	13	14	13	75	75	75

Gland size recommendations only apply to Prysmian Glands - as stocked by Jointing Tech

**Single Core 6491X, Stranded Copper Conductor PVC or LSF 450/750V**

Conductor size mm <sup>2</sup>	Approx overall diameter mm	Voltage drop DC mV/A/m	Voltage drop DC single phase mV/A/m	Voltage drop three phase AC mV/A/m	Approx cable weight kg/km
1.5	3.0	29	29	25	23
2.5	3.6	18	18	15	35
4	4.2	11	11	9.5	51
6	4.7	7.3	7.3	6.4	71
10	6.1	4.4	4.4	3.8	120
16	7.2	2.8	2.8	2.4	180
25	8.4	1.75	1.8	1.55	280
35	9.5	1.25	1.3	1.1	380
50	11.3	0.93	1.0	0.85	490
70	12.6	0.63	0.72	0.61	710
95	14.7	0.46	0.56	0.48	980
120	16.2	0.36	0.47	0.41	1210
150	18.1	0.29	0.41	0.36	1510
185	20.2	0.23	0.37	0.32	1900
240	22.9	0.18	0.33	0.29	2490
300	27.0	0.145	0.31	0.27	3050
400	32.0	0.105	0.29	0.25	3900

**Single Core Unarmoured, Stranded Copper Conductor LSF - 600/1000V BS5467**

Conductor size mm <sup>2</sup>	Approx overall diameter mm	Approx cable weight kg/km
150	25.8	1950
185	28.0	2350
240	30.5	3000
300	33.5	3675
400	37.8	4700
500	41.1	5925
630	45.3	7450
800	54.8	9400
1000	58.4	11400

**Single Core - Aluminium Wire Armoured, Stranded Copper Conductor, LSF - 600/1000V BS6724**

Conductor size mm <sup>2</sup>	Approx overall diameter mm	Average Thickness Of Insulation (mm)	Approx diameter under armour mm	Nominal Diameter Of Armour Wire (mm)	Approx cable weight kg/km
70	20	1.1	14.7	1.25	950
95	21.6	1.1	16.3	1.25	1225
120	23.2	1.2	17.9	1.25	1500
150	25.8	1.4	19.5	1.6	1950
185	28	1.6	21.6	1.6	2350
240	30.5	1.7	23.9	1.6	3000
300	33.5	1.8	28.5	1.6	3675
400	37.8	2	30.4	2	4700
500	41.1	2.2	33.9	2	5925
630	45.3	2.4	38.2	2	7450
800	54.8	2.6	43.7	2.5	9400
1000	58.4	2.8	48.5	2.5	11400

**DISCLAIMER**

Please note all the cable data in this section and selection charts are based on information provided by Prysmian Cables Limited and intended as a guide only. Jointing Tech recommend that dimensional data is taken from the actual cable being used to ensure the correct accessories are selected. Jointing Tech cannot be held responsible for errors in selection where incorrect cable dimension are used.

## LV Two & Three Core XLPE Cables

### Two Core XLPE - Stranded Copper Conductor, Steel Wire Armoured, LSF - 600/1000V BS5467

Conductor size mm <sup>2</sup>	Approx overall diameter mm	Approx diameter under armour mm	Nominal diameter of armour wires mm	Approx cable weight kg/km
1.5	11.5	7.1	0.9	320
2.5	12.9	8.3	0.9	365
4	14.4	9.8	0.9	440
6	15.6	11	0.9	470
10	16.8	12	0.9	810
16	19.6	14.1	1.25	1025
25	20.9	15.6	1.25	1000
35	23	17	1.6	1400
50	25.3	19.3	1.6	1750
70	28.5	22.3	1.6	2300
95	32.3	25.1	2	3100
120	34.8	27.4	2	3700
150	37.9	30.3	2	4400
185	42.5	33.5	2.5	5700
240	46.5	37.3	2.5	7100
300	50.3	40.9	2.5	8500
400	54.7	45.1	2.5	10700

### Three Core XLPE - Stranded Copper Conductor, Steel Wire Armoured, LSF - 600/1000V BS5467

Conductor size mm <sup>2</sup>	Approx overall diameter mm	Approx diameter under armour mm	Nominal diameter of armour wires mm	Approx cable weight kg/km
1.5	12	8	0.9	300
2.5	13	9	0.9	350
4	14	10	0.9	450
6	15.2	11	0.9	550
10	18	13	1.25	800
16	21	15	1.25	1100
25	26	19	1.6	1700
35	28	22	1.6	2100
50	30	24.3	1.6	2400
70	34	27.4	1.6	3100
95	38	30.7	2	4100
120	41.3	33.8	2	5000
150	45	36	2.5	6300
185	49	40	2.5	7600
240	54	45.5	2.5	9600
300	59	49.9	2.5	11600
400	65	55	2.5	14400

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LV Four Core XLPE Cable/3.3kV Three Core XLPE Cables

**Four Core XLPE - Stranded Copper Conductor, Steel Wire Armoured, LSF - 600/1000V BS5467**

Conductor size mm <sup>2</sup>	Approx overall diameter mm	Approx diameter under armour mm	Nominal diameter of armour wires mm	Approx cable weight kg/km
1.5	12.9	8.3	0.9	310
2.5	14.9	9.8	0.9	400
4	15.7	11.1	0.9	510
6	17.9	12.4	1.25	730
10	19.7	14.2	1.25	930
16	22.4	16.7	1.25	1260
25	27.3	20.7	1.6	2000
35	30.2	23.4	1.6	2500
50	32.2	26.0	1.6	3000
70	38.0	30.6	2.0	4120
95	40.7	34.1	2.0	5280
120	45.4	37.6	2.5	6790
150	50.6	41.6	2.5	8060
185	55.3	46.0	2.5	9770
240	61.2	51.7	2.5	12270
300	66.8	56.9	2.5	14900
400	75.4	64.0	3.15	19270

**Three Core Xlpe - Stranded Copper Conductor, Steel Wire Armoured, LSF - 1900/3300V BS5467**

Conductor size mm <sup>2</sup>	Approx overall diameter mm	Average thickness of insulation mm	Approx diameter under armour mm	Nominal diameter of armour wires mm	Approx cable weight kg/km
25	31.3	2	25.3	1.6	1125
35	33.9	2	27.7	1.6	1650
50	35.1	2	27.9	2	2250
70	38.4	2	31	2	2750
95	41.5	2	33.9	2	3600
120	45.7	2	36.9	2.5	4500
150	48.3	2	39.3	2.5	5800
185	51.6	2	42.5	2.5	6500
240	56.1	2	46.8	2.5	7500
300	60.4	2	50.9	2.5	9375
400	65.3	2	55.4	2.5	10700

**DISCLAIMER**

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## LV & 3.3kV Three & Four Core PILC Cables

### Three Core PILC - Stranded Copper Conductor, Steel Wire Armoured - 600/1000V BS6480

Conductor size mm <sup>2</sup>	Approx overall diameter mm	Approx diameter over lead mm	Nominal diameter of armour wire mm	Approx cable weight kg/km
25	27.6	17.8	1.6	2650
35	29.9	20.1	1.6	3200
50	32.4	22.4	1.6	3850
70	36.4	25.4	2	5000
95	40	28.8	2	6210
120	43.2	31.8	2	7350
150	48.4	35.6	2.5	9280
185	52	39	2.5	10910
240	57.4	44.2	2.5	13500
300	62.1	48.5	2.5	16030
400	67.9	53.9	2.5	19570

### Four Core PILC - Stranded Copper Conductor, Steel Wire Armoured - 600/1000V BS6480

Conductor size mm <sup>2</sup>	Approx overall diameter mm	Approx diameter over lead mm	Nominal diameter of armour wire mm	Approx cable weight kg/km
25	30.2	20.4	1.6	3170
35	32.9	22.9	1.6	3770
50	36.6	25.6	2	4840
70	40.6	29.4	2	6140
95	44.9	33.5	2	7650
120	49.5	36.9	2.5	9530
150	54.3	41.3	2.5	11490
185	58.5	45.3	2.5	13560
240	65.2	51.6	2.5	17050
300	70.5	56.7	2.5	20280
400	78.8	63.1	3.5	25660

### Three Core PILC - Stranded Copper Conductor, Steel Wire Armoured - 1900/3300V BS6480

Conductor size mm <sup>2</sup>	Approx overall diameter mm	Average thickness of insulation mm	Approx diameter under armour mm	Nominal diameter of armour wire mm	Approx cable weight kg/km
25	30.1	1.4	20.3	1.6	2570
35	32.4	1.4	22.4	1.6	2900
50	35.7	1.4	24.7	2	3580
70	39.2	1.4	28	2	4260
95	42.8	1.4	31.4	2	5020
120	46.9	1.4	34.3	2.5	6120
150	49.9	1.8	37.1	2.5	6890
185	53.5	1.8	40.5	2.5	7860
240	58.5	2	45.1	2.5	9290
300	63.2	2	49.6	2.5	10850
400	70.3	2	55	2.5	13690

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**Multi Core XLPE, Steel Wire Armoured, Stranded Copper Conductor, LSF - 600/1000V BS6724**

**FIVE CORE**

Nominal cross sectional area mm <sup>2</sup>	Approx overall diameter mm	Approx diameter under armour	Nominal diameter of armour wires mm	Approx cable weight kg/km
1.5	14.9	9.8	0.9	400
2.5	16.5	11.4	0.9	490
4	18.9	12.9	1.25	715
6	20.4	14.4	1.25	900
10	23.2	17	1.25	1200
16	27.3	20.2	1.6	1650
25	30	24	1.6	2200
35	32.9	26.7	1.6	2700

**SEVEN CORE**

1.5	15.8	10.7	0.9	500
2.5	17.6	12.5	0.9	730
4	20.1	14.1	1.25	840

**TWELVE CORE**

1.5	20	14	1.25	820
2.5	22.8	16.6	1.25	1020
4	26.1	19.2	1.6	1390

**NINETEEN CORE**

Nominal cross sectional area mm <sup>2</sup>	Approx overall diameter mm	Approx diameter under armour	Nominal diameter of armour wires mm	Approx cable weight kg/km
1.5	22.6	16.4	1.25	1080
2.5	27	19.9	1.6	1530
4	29.7	22.6	1.6	1850

**TWENTY-SEVEN CORE**

1.5	27.3	20.0	1.6	1300
2.5	31.3	24	1.6	1960
4	34.8	27.3	1.6	2420

**THIRTY-SEVEN CORE**

1.5	29.9	22.5	1.6	1850
2.5	34.3	27	1.6	2440
4	39.6	31.1	2	3320

**FORTY-EIGHT CORE**

1.5	33.5	26	1.6	2900
2.5	40.1	31.4	2	3550
4	44.7	35.8	2	4850

**Multi Paired PVC, Steel Wire Armoured, Stranded Copper Conductor - Part 2 Type 2 BS5308**

**INDIVIDUALLY SCREENED**

Cable CSA	1 PAIR		2 PAIR (QUAD)		5 PAIR		10 PAIR		20 PAIR		30 PAIR		50 PAIR	
	Out-side Diameter	Under Armour												
0.5mm <sup>2</sup>	-	-	15.8	11.0	19.9	14.2	26.9	20.1	33.3	26.3	39.5	31.3	50.5	40.7
0.75mm <sup>2</sup>	-	-	16.6	11.8	21.0	15.3	28.5	21.7	36.8	28.8	42.9	34.5	54.0	44.0
1.5mm <sup>2</sup>	-	-	19.4	13.7	24.4	17.8	32.5	25.5	41.6	33.4	49.8	40.0	61.6	51.2

**COLLECTIVELY SCREENED**

Cable CSA	1 PAIR		2 PAIR (QUAD)		5 PAIR		10 PAIR		20 PAIR		30 PAIR		50 PAIR	
	Out-side Diameter	Under Armour												
0.5mm <sup>2</sup>	11.4	7.0	12.3	7.9	17.9	13.1	22.9	17.2	29.1	22.3	33.9	26.9	42.1	33.9
0.75mm <sup>2</sup>	11.7	7.3	12.9	8.3	19.8	14.3	25.3	18.7	31.3	24.5	37.5	29.5	47.0	37.4
1.5mm <sup>2</sup>	12.9	8.3	14.3	9.7	22.1	16.4	28.4	21.6	35.7	28.5	42.5	34.3	53.4	43.6

**INDIVIDUALLY & COLLECTIVELY SCREENED**

Cable CSA	1 PAIR		2 PAIR (QUAD)		5 PAIR		10 PAIR		20 PAIR		30 PAIR		50 PAIR	
	Out-side Diameter	Under Armour												
0.5mm <sup>2</sup>	-	-	16.8	12.0	20.9	15.2	27.9	21.1	34.3	27.3	40.5	32.3	51.5	41.7
0.75mm <sup>2</sup>	-	-	17.6	12.8	22.0	16.3	29.5	22.7	37.8	29.8	43.9	35.5	55.0	45.0
1.5mm <sup>2</sup>	-	-	20.4	14.7	25.4	18.8	33.5	26.5	42.6	34.4	50.8	41.0	62.6	52.5



## Fireproof Cables

### Fire Proof Cable - FP400 Three & Four Core

THREE CORE						
Nominal cross sectional area mm <sup>2</sup>	Approx overall dia mm	Approx diameter under armour mm	Approx cable weight kg/km	Current rating Three phase AC Clipped direct Amps	Current rating Three phase AC Free Air Amps	Volt drop Three phase AC mV/A/m
1.5	13.4	8.8	340	23	25	27
2.5	14.8	10.2	430	31	33	16
4	16.1	11.5	510	42	44	10
6	17.4	12.8	620	53	56	6.8
10	20.3	14.8	930	73	78	4.0
16	22.8	17.1	1210	94	99	2.5
25	27.4	20.8	1800	124	131	1.65
35	29.2	22.4	2100	154	162	1.15
50	33.0	26.2	2600	187	197	0.87
70	37.0	30.0	3400	238	251	0.60
95	40.6	32.4	4500	289	304	0.45
120	43.8	35.4	5500	335	353	0.37
150	48.0	38.4	6900	386	406	0.30
185	52.0	42.2	8200	441	463	0.26
240	57.1	46.9	10200	520	546	0.21
300	63.0	52.6	12200	599	628	0.185
400	69.5	58.7	15000	673	728	0.165

FOUR CORE						
Nominal cross sectional area mm <sup>2</sup>	Approx overall dia mm	Approx diameter under armour mm	Approx cable weight kg/km	Current rating Three phase AC Clipped direct Amps	Current rating Three phase AC Free Air Amps	Volt drop Three phase AC mV/A/m
1.5	14.3	9.7	390	23	25	27
2.5	16.0	11.4	490	31	33	16
4	17.3	12.7	590	42	44	10
6	19.6	14.1	830	53	56	6.8
10	21.8	16.3	1040	73	78	4.0
16	24.6	18.9	1370	94	99	2.5
25	29.1	22.5	2100	124	131	1.65
35	32.2	25.4	2500	154	162	1.15
50	35.0	28.0	3200	187	197	0.87
70	40.2	32.0	4500	238	251	0.60
95	44.0	35.6	5600	289	304	0.45
120	48.4	38.8	7200	335	353	0.37
150	52.5	42.7	8500	386	406	0.30
185	57.1	46.9	10300	441	463	0.26
240	62.7	52.3	12800	520	546	0.21
300	69.6	58.8	15600	599	628	0.185
400	78.0	65.3	20400	673	728	0.165

### Fire Proof Cable - FP600S Three & Four Core

THREE CORE						
Nominal cross sectional area mm <sup>2</sup>	Approx overall dia mm	Approx diameter under armour mm	Nominal diameter of armour wires mm	Approx cable weight kg/km	Recommended accessories	
					Claw Cleat Ref No	Brass Gland Ref No
4	21	15	1.25	800	370CG04	LSF25CW
6	21	15	1.25	820	370CG04	LSF25CW
10	23	17	1.25	1050	370CG05	LSF25CW
16	24	19	1.25	1400	370CG06	LSF25CW
25	29	22	1.6	2000	370CG06	LSF32CW
35	31	24	1.6	2300	370CG07	LSF32CW
50	32	25	1.6	2800	370CG07	LSF40CW
70	36	29	1.6	3600	370CG08	LS-F40SCW
95	40	32	2.0	4500	370CG08	LS-F50SCW
120	43	35	2.0	5400	370CG08	LS-F50SCW
150	48	39	2.5	6900	370CG09	LSF50CW
185	52	43	2.5	8200	370CG09	LSF63CW
240	57	47	2.5	10100	370CG09	LSF63CW
300	62	52	2.5	12200	370CG11	LSF63CW
400	69	58	2.5	15000	370CG12	LSF75CW

FOUR CORE						
Nominal cross sectional area mm <sup>2</sup>	Approx overall dia mm	Approx diameter under armour mm	Nominal diameter of armour wires mm	Approx cable weight kg/km	Recommended accessories	
					Claw Cleat Ref No	Brass Gland Ref No
4	21	15	1.25	800	370CG04	LSF25CW
6	23	17	1.25	950	370CG05	LSF25CW
10	24	19	1.25	1200	370CG05	LSF25CW
16	27	20	1.25	1600	370CG06	LSF32CW
25	32	24	1.6	2400	370CG07	LSF32CW
35	35	27	1.6	2800	370CG07	LSF40CW
50	36	29	1.6	3200	370CG08	LSF40CW
70	41	32	2.0	4500	370CG08	LS-F50SCW
95	44	36	2.0	5700	370CG09	LS-F50SCW
120	49	40	2.5	7300	370CG09	LSF50CW
150	55	44	2.5	8600	370CG10	LSF63CW
185	59	48	2.5	10500	370CG11	LSF63CW
240	64	54	2.5	12900	370CG12	LSF63CW
300	70	59	2.5	15500	370CG13	LSF75CW
400	79	66	3.15	20100	370CG14	LSF85CW

**11kV Single Core, Stranded Copper Conductor, Copper Wire Screen, Non-Armoured - BS6622/BS7835**

Conductor size mm <sup>2</sup>	Overall cable diameter mm	Average thickness of insulation mm <sup>2</sup>	Copper wire screen mm	Diameter over insulation mm	Minimum bending radius mm	Cable weight kg/m
70	25.7	3.4	16	18.8	450	1.3
95	27.4	3.4	16	20.5	500	1.5
120	29.2	3.4	16	22.0	500	1.8
150	30.5	3.4	16	23.3	550	2.1
185	32.5	3.4	16	25.1	600	2.5
240	34.9	3.4	16	27.3	600	3.1
300	37.2	3.4	16	29.6	650	3.7
400	40.1	3.4	35	32.3	700	4.7
500	43.2	3.4	35	35.2	750	5.7
630	46.9	3.4	35	38.6	800	7.0

**11kV Single Core, Stranded Copper Conductor, Copper Tape Screen, Aluminium Wire Armoured - BS6622/BS7835**

Conductor size mm <sup>2</sup>	Overall cable diameter mm	Average thickness of insulation mm	Diameter over insulation mm	Minimum bending radius mm	Cable weight kg/m
70	29.0	3.4	18.8	450	1.6
95	31.0	3.4	20.5	500	1.9
120	32.5	3.4	22.0	500	2.2
150	35.0	3.4	23.3	550	2.6
185	36.5	3.4	25.1	600	3.0
240	39.0	3.4	27.3	600	3.6
300	41.0	3.4	29.6	650	4.3
400	45.0	3.4	32.3	700	5.2
500	49.5	3.4	35.2	750	6.5
630	54.0	3.4	38.6	800	7.9

**11kV Three Core Armoured Copper Tape Screen - BS66221/ BS7835**

Conductor size mm <sup>2</sup>	Overall cable diameter mm	Average thickness of insulation mm	Minimum bending radius mm	Cable weight kg/m
70	54.5	3.4	700	5.6
95	58.5	3.4	750	6.7
120	62.0	3.4	800	7.7
150	66.5	3.4	850	8.7
185	69.5	3.4	900	10.1
240	76.0	3.4	950	13.1
300	81.5	3.4	1050	15.4
400	89.0	3.4	1100	18.6

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**22kV XLPE Cables**
**22kV Single Core, Stranded Copper Conductor, Copper Wire Screen, Non-Armoured - BS6622/BS7835**

Conductor size mm <sup>2</sup>	Overall cable diameter mm	Average thickness of insulation mm	Diameter over insulation mm	Minimum bending radius mm	Cable weight kg/m
70	30.6	5.5	23.4	600	1.5
95	32.5	5.5	25.1	600	1.8
120	34.0	5.5	26.6	650	2.0
150	35.5	5.5	27.9	650	2.4
185	37.3	5.5	29.7	700	2.7
240	39.7	5.5	31.9	750	3.4
300	42.2	5.5	34.2	800	4.1
400	45.2	5.5	36.9	850	5.0
500	48.3	5.5	39.8	900	6.1
630	51.9	5.5	43.2	950	7.4

**22kV Single Core, Stranded Copper Conductor, Copper Tape Screen, Aluminium Wire Armoured - BS6622/BS7835**

Conductor size mm <sup>2</sup>	Overall cable diameter mm	Average thickness of insulation mm	Diameter over insulation mm	Minimum bending radius mm	Cable weight kg/m
70	34.5	5.5	23.4	550	1.9
95	36.0	5.5	25.1	600	2.3
120	37.5	5.5	26.6	600	2.6
150	39.5	5.5	27.9	650	2.9
185	41.0	5.5	29.7	650	3.4
240	43.5	5.5	31.9	700	4.0
300	47.0	5.5	34.2	750	4.9
400	50.5	5.5	36.9	800	5.8
500	54.5	5.5	39.8	850	7.0
630	58.3	5.5	43.2	900	8.4

**22kV Three Core, Stranded Copper Conductor, Copper Tape Screen, Steel Wire Armoured - BS6622/BS7835**

Conductor size mm <sup>2</sup>	Overall cable diameter mm	Average thickness of insulation mm	Diameter over insulation mm	Minimum bending radius mm	Cable weight kg/m
70	64.3	5.5	23.4	1050	7.8
95	68.5	5.5	25.1	1100	9.1
120	75.0	5.5	26.6	1200	11.0
150	78.5	5.5	27.9	1250	12.1
185	82.5	5.5	29.7	1300	13.8
240	87.5	5.5	31.9	1350	16.1
300	93.0	5.5	34.2	1450	18.4
400	100.5	5.5	36.9	1550	21.7

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**33kV Single Core, Stranded Copper Conductor, Copper Wire Screen, Non-Armoured - BS6622/BS7835**

Conductor size mm <sup>2</sup>	Overall cable diameter mm	Average thickness of insulation mm	Copper wire screen mm	Diameter over insulation mm	Minimum bending radius mm	Cable weight kg/m
70	36.5	8.0	16	28.9	800	1.5
95	38.4	8.0	16	30.6	850	1.8
120	39.9	8.0	16	32.1	850	2.0
150	41.2	8.0	16	33.4	900	2.4
185	43.2	8.0	16	35.2	950	2.7
240	45.7	8.0	25	37.4	1000	3.4
300	48.2	8.0	25	39.7	1050	4.1
400	51.1	8.0	35	42.4	1100	5.0
500	54.0	8.0	35	45.3	1150	6.1
630	57.8	8.0	35	48.7	1250	7.4

**33kV Single Core, Stranded Copper Conductor, Copper Tape Screen, Aluminium Wire Armoured - BS6622/BS7835**

Conductor size mm <sup>2</sup>	Overall cable diameter mm	Average thickness of insulation mm	Diameter over insulation mm	Minimum bending radius mm	Cable weight kg/m
70	41.4	8.0	28.9	900	2.4
95	43.3	8.0	30.6	950	2.7
120	44.8	8.0	32.1	950	3.1
150	47.5	8.0	33.4	1000	3.6
185	49.5	8.0	35.2	1050	4.0
240	51.7	8.0	37.4	1100	4.7
300	54.4	8.0	39.7	1150	5.5
400	57.3	8.0	42.4	1250	6.4
500	60.6	8.0	45.3	1300	7.6
630	64.2	8.0	48.7	1350	9.1

**33kV Three Core, Stranded Copper Conductor, Copper Tape Screen, Steel Wire Armoured - BS6622/BS7835**

Conductor size mm <sup>2</sup>	Overall cable diameter mm	Average thickness of insulation mm	Diameter over insulation mm	Minimum bending radius mm	Cable weight kg/m
70	82.6	8	28.9	1500	10.7
95	86.7	8	30.6	1600	12.0
120	90.3	8	32.1	1650	13.3
150	93.3	8	33.4	1700	14.4
185	97.6	8	35.2	1800	16.1
240	102.9	8	37.4	1900	18.4
300	108.5	8	39.7	2000	21.0
400	114.9	8	42.4	2100	24.2

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## 11kV PILC & PICAS Cables

### 11kV Single Core PILC, Stranded Copper Conductor, PVC - BS6480

Conductor size mm <sup>2</sup>	Nominal outside diameter mm	Lead alloy sheath thickness mm	Over lead diameter mm	Minimum bending radius mm	Cable weight kg/km
50	21.1	1.2	18.0	350	1500
70	23.1	1.3	20.0	350	1900
95	25.0	1.3	21.9	400	2200
120	26.8	1.4	23.7	450	2600
150	28.3	1.4	25.2	450	3000
185	30.4	1.5	27.3	500	3600
240	33.0	1.5	30.0	500	4300
300	35.7	1.6	32.6	550	5100
400	39.0	1.7	35.8	600	6300
500	43.3	1.7	39.8	650	7500
630	47.7	1.8	44.0	750	9300
800	52.4	1.9	48.4	800	11500
1000	57.6	2.1	53.4	900	14200

### 11kV Three Core Pilc (Belted), Stranded Copper Conductor, Steel Wire Armoured - BS6480

Conductor size mm <sup>2</sup>	Nominal outside diameter mm	Armour wire diameter mm	Armour wire cross sectional area	Over lead diameter mm	Minimum bending radius mm	Cable weight kg/km
25	43.4	2.0	160	32.4	550	5100
35	42.3	2.0	157	31.3	550	5300
50	45.6	2.5	212	33.6	550	6500
70	48.9	2.5	226	36.9	600	7600
95	52.3	2.5	246	40.3	650	9000
120	55.0	2.5	261	43.0	700	10100
150	57.8	2.5	275	45.8	700	11500
185	61.2	2.5	295	49.2	750	13200
240	66.0	2.5	320	54.0	800	16000
300	71.6	3.15	278	58.3	900	19400
400	77.0	3.15	303	63.7	950	23100

### 11kV Three Core Picas (Screened) - BS6480

Conductor size mm <sup>2</sup>	Approx diameter overall mm <sup>2</sup>	Approx overall thickness of aluminium sheath mm <sup>2</sup>	Approx cable weight kg/km
95	49	2	3400
185	60.7	2	5200
300	72.5	2.5	7500

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<b>FOREWORD</b>	<b>3</b>	11kV Outdoor Terminations	<b>100</b>	Bonding	<b>168</b>
<b>CABLE GLANDS</b>	<b>7</b>	11kV Single Core Outdoor Terminations	<b>101</b>	Earthing	<b>169</b>
Stuffing Glands	<b>8</b>	11kV Three Core Indoor Terminations	<b>102</b>	Earth Rod Clamps	<b>172</b>
Industrial Glands	<b>10</b>	11kV Heat Shrink/Cold Shrink Outdoor Terminations	<b>104</b>	Earth Inspection Pits & Accessories	<b>174</b>
Integral Earth Glands	<b>14</b>	33kV Indoor/Outdoor Terminations	<b>106</b>	Earth Bars	<b>175</b>
Accessories	<b>16</b>	11/33kV Indoor Accessories	<b>109</b>	Earth Bars & Accessories	<b>176</b>
<b>CABLE LUGS &amp; CONNECTORS</b>	<b>19</b>	11/33kV Indoor/Outdoor Accessories	<b>111</b>	Custom Made Earth Bars	<b>177</b>
Pre-Insulated Terminals	<b>20</b>	11/33kV Outdoor Accessories	<b>112</b>	Exothermic Welding	<b>178</b>
LV Lugs	<b>21</b>	11kV Indoor Accessories	<b>113</b>	Security Products	<b>180</b>
LV Lugs & Splices	<b>23</b>	11/33kV Outdoor Accessories	<b>115</b>	<b>TAPES, AEROSOLS &amp; ACCESSORIES</b>	<b>183</b>
LV Mechanical Lugs	<b>26</b>	Interface Bushings A to E	<b>116</b>	PVC Insulation Tapes	<b>184</b>
MV Lugs	<b>27</b>	Separable Connectors for A Type Bushings	<b>117</b>	Self Amalgamating & Splicing Tapes	<b>186</b>
MV Mechanical Lugs	<b>28</b>	Separable Connectors for B Type Bushing	<b>118</b>	Self Amalgamating & Mastic Sealing Tapes	<b>187</b>
MV Mechanical Lugs & Crimp Slices	<b>29</b>	Separable Connectors for C Type Bushing	<b>119</b>	Mastic Sealing & Marking Tapes	<b>189</b>
MV Mechanical Connectors	<b>31</b>	Separable Connectors for D/E Type Bushing	<b>121</b>	Corrosion and Protection Tapes and Paints	<b>190</b>
MV/HV Mechanical Lugs	<b>33</b>	HDC Cable Cabinets	<b>122</b>	Glass Cloth and Cambric Tapes	<b>191</b>
HV Mechanical Lugs	<b>34</b>	Inner Cone Terminations	<b>124</b>	Aerosol Sprays	<b>192</b>
HV Mechanical Lugs & Connectors	<b>35</b>	33 & 52kV Self Supporting Terminations	<b>125</b>	<b>CABLE TRANSITS</b>	<b>195</b>
<b>CABLE CLEATS</b>	<b>37</b>	52kV Heat Shrink/Cold Shrink Terminations	<b>126</b>	The Roxtec Sealing System	<b>196</b>
Product Selection Table	<b>38</b>	<b>MV JOINTS</b>	<b>129</b>	Duct Seals and Sealants	<b>198</b>
Plastic Cable Cleats	<b>39</b>	11kV Resin Joints	<b>130</b>	Duct Sealing	<b>199</b>
Aluminium Cable Cleats	<b>42</b>	11kV Heat Shrink Joints	<b>133</b>	Raychem Duct Seal	<b>200</b>
Stainless Steel Cable Cleats	<b>45</b>	11kV Heat Shrink/Cold Shrink Joints	<b>134</b>	<b>CABLE TROUGHING</b>	<b>203</b>
Single Way Shoe Cleats / Short Circuit Straps	<b>46</b>	11kV Cold Shrink/ Heat Shrink Joints	<b>135</b>	Lightweight Cable Trough	<b>204</b>
Stainless Steel Trefoil Cleats	<b>47</b>	33kV Heat Shrink Joints	<b>136</b>	<b>TOOLS &amp; EQUIPMENT</b>	<b>205</b>
Multiple Cable Cleats	<b>48</b>	33kV Heat Shrink/Cold Shrink Joints	<b>138</b>	Hand Hydraulic Crimp Tools	<b>206</b>
Multiple Cable Cleats & Accessories	<b>52</b>	33kV Cold Shrink Joints	<b>139</b>	Battery Operated Hand Crimpers	<b>207</b>
Aluminium Trefoil Cleats	<b>53</b>	52kV Heat Shrink Joints	<b>141</b>	Hydraulic Press Heads	<b>208</b>
Accessories	<b>54</b>	<b>HV JOINTS</b>	<b>143</b>	Hydraulic Pumps	<b>209</b>
<b>CABLE TIES &amp; MARKING SYSTEMS</b>	<b>57</b>	72kV Heat Shrink and Cold Shrink Joints	<b>144</b>	Battery Operated Hand Cutters	<b>210</b>
Nylon Cable Ties	<b>58</b>	<b>HV TERMINATIONS</b>	<b>147</b>	Hydraulic Cutting Tools	<b>211</b>
Stainless Steel Cable Ties	<b>59</b>	72kV Terminations	<b>148</b>	Crimp Dies	<b>212</b>
Stainless Steel Banding System	<b>62</b>	52-72kV Cold Shrink Terminations	<b>149</b>	Hydraulic Hole Punching Tools	<b>213</b>
All Round Band & Accessories	<b>63</b>	<b>LINK BOXES</b>	<b>151</b>	Cable Preparation Tools	<b>214</b>
Easy Read System	<b>64</b>	LV 2 & 4 Way	<b>152</b>	Cutting/Preparation Tools	<b>215</b>
Nylon Cable Markers	<b>65</b>	<b>RESINS, COMPOUNDS &amp; ACCESSORIES</b>	<b>155</b>	Tool Hire	<b>218</b>
<b>CABLE PULLING EQUIPMENT</b>	<b>67</b>	Resins, Compounds & Accessories	<b>156</b>	Pfisterer/Spiking Tool	<b>220</b>
Cable Pulling Equipment	<b>68</b>	Denso Products	<b>158</b>	Safety Equipment	<b>221</b>
Cable Pulling Lubricants	<b>71</b>	Insulating Compounds	<b>159</b>	Gas Torch Kits & Accessories	<b>223</b>
Hand & Cable Cleaning Wipes	<b>72</b>	<b>EARTHING &amp; LIGHTNING PROTECTION</b>	<b>161</b>	Band-It Tooling	<b>224</b>
Hand & Cable Cleaning Wipes	<b>72</b>	Conductors	<b>162</b>	<b>CABLE DATA</b>	<b>225</b>
Cable Warning & Detection Tape	<b>73</b>	Conductor Fixings	<b>166</b>	Selector Table	<b>226</b>
Cable Protection & Location Products	<b>74</b>			LV Single Core XLPE Cables	<b>227</b>
<b>INSULATION PRODUCTS</b>	<b>77</b>			LV Two & Three Core XLPE Cables	<b>228</b>
LV Heat Shrink Products	<b>78</b>			LV Four Core XLPE Cables/ 3.3kV Three Core XLPE Cables	<b>229</b>
LV Cold Shrink Products	<b>81</b>			LV & 3.3kV Three & Four Core PILC Cables	<b>230</b>
MV Heat Shrink Products	<b>83</b>			Multi-core & Multi-paired Cables	<b>231</b>
<b>LV JOINTS</b>	<b>87</b>			Fire Proof Cables	<b>232</b>
Resin Joints	<b>88</b>			11kv XLPE Cables	<b>233</b>
Unarmoured, Pilot & Telecom Resin Joints	<b>92</b>			22kV XLPE Cables	<b>234</b>
Heat Shrink Joints	<b>93</b>			33kV XLPE Cables	<b>235</b>
<b>MV TERMINATIONS</b>	<b>97</b>			11kv PILC & PICAS Cables	<b>236</b>
11kV Indoor Termination	<b>98</b>				

Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
583	221	2A160-M	27	370SA31-XXX	46	376AC03	48	378AB02	50	379TC19	47
584	221	2A19-M	27	370SA32-XXX	46	376AC04	48	378AB03	50	379TC20	47
585	221	2A200-M	27	370SA33-XXX	46	376AC05	48	378AB04	50	379TC21	47
586	221	2A24-M	27	370SA34-XXX	46	376AC06	48	378AB05	50	379TC22	47
587	221	2A3-M	27	370SA35-XXX	46	376AC07	48	378AB06	50	380AG02	55
588	221	2A30-M	27	370SA36-XXX	46	376AC08	48	378AB07	50	384AA01	41
1451	130	2A37-M	27	370SA37-XXX	46	376AC09	48	378AB08	50	384AA02	41
1452	130	2A48-M	27	370SA66-XXX	46	376AC10	48	378AB09	50	384AA03	41
280010	199	2A5-M	27	370SA67-XXX	46	376AC11	48	378AB29	50	384AA04	41
280020	199	2A60-M	27	370SA68-XXX	46	376AC12	48	378AB36	50	384AA05	41
280030	199	2A7-M	27	370SA69-XXX	46	376AC13	48	378AB37	50	384AA06	41
280040	199	2A80-2M	27	370SA80-XXX	46	376AC14	48	378AB38	50	384LSF01	41
280050	199	2A80-M	27	370SA81-XXX	46	376AC15	48	378AB39	50	384LSF03	41
280060	199	3 TON JACK	68	370SA82-XXX	46	376AC16	48	378AB40	50	384LSF04	41
280070	199	3091-21	223	370SA83-XXX	46	376AC17	48	378AB41	50	384LSF05	41
280070	199	332 447 010	35	370SA84-XXX	46	376AC18	48	378AB42	50	384LSF06	41
280070	199	332 592 010	35	370SA85-XXX	46	376AC19	48	378AB51	50	385AA01	39
280080	199	332 593 010 (4 BOLT)	35	370SA86-XXX	46	376AC20	48	378AB52	50	385AA02	39
280080	199			370SA87-XXX	46	376AC21	48	378AB53	50	385AA03	39
280080	199	332 595 010	33	370SB16-XXX	46	376AC22	48	378AB54	50	385AA04	39
509048	222	332 595 011	33	370SB17-XXX	46	376AC23	48	378AB55	50	385AA05	39
509049	222	332 599 010	33	370SB18-XXX	46	376AC24	48	378AB56	50	385AA06	39
509050	222	332 601 010	35	370SB19-XXX	46	376AC25	48	378AB57	50	385AA07	39
509051	222	332 602 010	35	370SB30-XXX	46	376AC26	48	378AB58	50	385AA08	39
5116660250	215	332 603 010	35	370SB31-XXX	46	376AC27	48	378AB59	50	385LSF01	39
5116660500	215	332 604 010	33	370SB32-XXX	46	376AC28	48	378JB01	50	385LSF02	39
058L	221	332 605 010	33	370SB33-XXX	46	376AC29	48	378JB02	50	385LSF02	41
120-CS	214	332 605 011	33	370SB34-XXX	46	376AC30	48	378JB03	50	385LSF03	39
1402-FR B	156	332 606 010	33	370SB35-XXX	46	376AC31	48	378JB04	50	385LSF04	39
1402-FR C	156	332 607 010 (2 BOLT)	35	370SB36-XXX	46	376AC32	48	378JB05	50	385LSF05	39
1402-FR MIX PACK	156	332 614 010	35	370SB37-XXX	46	376AC33	48	378JB06	50	385LSF06	39
15BT-W-25/150SH-IPWS	121	332 617 010	35	370SB66-XXX	46	376SE05	53	378JB07	50	385LSF07	39
15BT-W-25/150SH-IPWS(C)	121	332 625 010	33	370SB67-XXX	46	376SE06	53	378JB08	50	385LSF08	39
15BT-W-25/150SH-IPWS(C)	121	332 625 011	33	370SB69-XXX	46	376SE07	53	378JB09	50	389AC03	55
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS	121	370SB80-XXX	46	376SE08	53	378JB29	50	389AC04	55
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	370SB81-XXX	46	376SE09	53	378JB36	50	41702-53	17
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	370SB82-XXX	46	376SE10	53	378JB37	50	41702-55	17
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	370SB83-XXX	46	376SE11	53	378JB38	50	41702-56	17
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	370SB84-XXX	46	376SR05	53	378JB39	50	41702-57	17
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	370SB85-XXX	46	376SR06	53	378JB40	50	41702-59	17
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	370SB86-XXX	46	376SR07	53	378JB41	50	41702-61	17
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	370SB87-XXX	46	376SR08	53	378JB42	50	41702-63	17
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB01	48	376SR09	53	378JB51	50	41702-64	17
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB02	48	376SR10	53	378JB52	50	41702-65	17
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB03	48	376SR11	53	378JB53	50	428ET51	17
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB04	48	376TR06	52	378JB54	50	428ET53	17
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15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB16	48	377AB07	51	379SC07	45	429AA57	17
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB17	48	377AB08	51	379SC08	45	429AA59	17
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB18	48	377AB29	51	379SC09	45	429AA61	17
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB19	48	377AB36	51	379TC01	47	429AA63	17
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB20	48	377AB37	51	379TC02	47	429AA69	17
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15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB22	48	377AB39	51	379TC04	47	439AA53	17
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15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB29	48	377AB54	51	379TC11	47	439AA69	17
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB30	48	377AB55	51	379TC12	47	458ET51	17
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB31	48	377AB56	51	379TC13	47	458ET53	17
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB32	48	377AB57	51	379TC14	47	458ET55	17
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB33	48	377AB58	51	379TC15	47	458ET56	17
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB34	48	377AB59	51	379TC16	47	458ET57	17
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB35	48	377L5F01	51	379TC17	47	458ET59	17
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB36	48	377L5F02	51	379TC18	47	458ET61	17
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB37	48	378AB01	50				
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB38	48						
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB39	48						
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB40	48						
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB41	48						
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB42	48						
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB43	48						
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB44	48						
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB45	48						
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB46	48						
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB47	48						
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB48	48						
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB49	48						
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB50	48						
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB51	48						
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB52	48						
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB53	48						
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB54	48						
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB55	48						
15BT-W-25/150SH-IPWS(C)	121	35BT-W-25/150SH-IPWS(C)	121	376AB56	48						
15BT-W											

Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
458ET63	17	92-AV610-3/C+1	130	A1/A2 40	9	AE051	64	AR5	94	BN005	168
458ET65	17	X PILC1		A1/A2 40 LSF	9	AE052	64	AS211	60	BN010	168
459AA51	17	92-AV610-3/C+2	130	A1/A2 50	9	AE053	64	AS212	60	BN105	168
459AA53	17	X PILC1		A1/A2 50 LSF	9	AE060	64	AS213	60	BN115	168
459AA55	17	92-AV620-3/C	130	A1/A2 50S	9	AE111	61	AS214	60	BN175	168
459AA56	17	92-AV620-3/C+1	130	A1/A2 50S LSF	9	AE112	61	AS215	60	BN176	168
459AA57	17	X PILC2		A1/A2 63	9	AE113	61	AS221	60	BN505	168
459AA59	17	92-AV620-3/C+2	130	A1/A2 63 LSF	9	AE114	61	AS222	60	BN510	168
459AA61	17	X PILC2		A1/A2 63S	9	AE115	61	AS223	60	BPTM100/40-A/U	84
459AA63	17	92-AV630-3/C	130	A1/A2 63S LSF	9	AE200 TOOL	224	AS224	60	BPTM120/50-A/U	84
459AA69	17	92-AV630-3/C+1	130	A1/A2 75	9	AE201 TOOL	224	AS225	60	BPTM15/6-A/U	84
481AA53	16	X PILC3		A1/A2 75 LSF	9	AE311	61	ATPAINT	181	BPTM175/70-A/U	84
481AA55	16	92-AV630-3/C+2	130	A1/A2 75S	9	AE312	61	AU230-130D	212	BPTM30/12-A/U	84
481AA56	16	X PILC3		A1/A2 75S LSF	9	AE313	61	AU520-130C	212	BPTM50/20-A/U	84
481AA57	16	92-EE717-1-BSK	114	A10-M	21	AE314	61	AVL025	180	BPTM75/30-A/U	84
481AA59	16	92-EP621-1	98	A100-2M12	22	AE315	61	AVL040	180	BR1	179
481AA61	16	92-EP621-2	100	A100-4ESI	22	AE405	63	AVL050	180	BR2	179
481AA63	16	92-EP623-1	99	A100-M	21	AE406	63	AVS025-1100	180	BR7	179
4CB185-300	80	92-EP623-2	101	A120-2M12	22	AE407	63	AVS025-300	180	BSM-185/400	31
4CB35-70	80	92-EP626-3	103	A120-4ESI	22	AE425	63	AVS040-1100	180	BSM-25/95	31
4CB50-150	80	92-EP631-1	98	A120-M	21	AE426	63	AVS040-300	180	BSM-95/240	31
4CB6-50	80	92-EP631-2	100	A14-M	21	AE427	63	AVS050-1100	180	BSMB-10/35	31
4FT 6 TON	68	92-EP633-1	99	A160-2M12	22	AE432	62	AVS050-300	180	BSMB-1000	31
6 TON JACK	68	92-EP633-2	101	A160-4ESI	22	AE433	62	AVT025	180	BSMB-120/300	31
6FT 6 TON	68	92-EP636-3	103	A160-M	21	AE434	62	AVT040	180	BSMB-185/400-	32
7691-S4-3W	105	92-EP641-1	98	A19-M	21	AE435	62	AVT050	180	500	
7692-S4-3W	105	92-EP641-2	100	A2 NYLON 16	8	AE436	62	AVTX050	181	BSMB-185/400-	32
7693-S4-3W	105	92-EP643-1	99	A2 NYLON 20	8	AE452	62	AVX025	181	630	
7FT 8 TON	68	92-EP643-2	101	A2 NYLON 25	8	AE453	62	AVX040	181	BSMB-25/95-	32
8 TON JACK	68	92-EP646-3	103	A2 NYLON 32	8	AE454	62	B-FL750E	213	95/240	
817908/42	222	92-EP653-1	99	A2 NYLON 40	8	AE455	62	B-TC500E	210	BSMB-35/150	31
827-134-001	124	92-EP653-2	101	A2 NYLON 50	8	AE456	62	B-TC650E	210	BSMB-500-800	32
827-134-002	124	92-EP656-1	98	A2 NYLON 63	8	AE465	63	B1350-CE	207	BSMB-500-MK2	31
827-134-003	124	92-EP656-3	103	A2-M	21	AE466	63	B500	207	BSMB-500/630-	32
827-134-004	124	92EE717-1	114	A200-4ESI	22	AE467	63	B70M-P24	209	MK2	
827-150-002	124	94-AP630-1/C	140	A200-M	21	AE475	63	BA205	164	BSMB-630-1000	32
827-150-003	124	94-AP631-1/C	140	A24-2M8	22	AE476	63	BA210	164	BSMB-630-800	32
827-150-004	124	94-AP635-1/C	138	A24-M	21	AE477	63	BA225	164	BSMB-630-MK2	31
827-150-005	124	94-AP636-1/C	138	A3-M	21	AE505	63	BA226	164	BSMB-800-1000	32
8423-6	81	94-EP610-2	106	A30-2M12	22	AE506	63	BA227	164	BSMB-800-MK2	31
8425-8	81	94-EP612-2	107	A30-M	21	AE507	63	BA230	164	BSMB-95/240-	32
8426-11	81	94-EP620-2	106	A37-2M12	22	AE565	63	BA231	164	185/400	
8426-9	81	94-EP622-2	107	A37-4ESI	22	AE566	63	BANDF11	61	BSR700	217
8427-12	81	94-EP630-2	106	A37-M	21	AE567	63	BANDF12	61	BSR700 SPARE	217
8427-16	81	94-EP632-2	107	A48-2M12	22	AE575	63	BANDF13	61	BLADE	
8427-6	81	94-EP640-2	106	A48-4ESI	22	AE576	63	BANDF14	61	BTN10-M	21
8428-12	81	94-EP642-2	107	A48-M	21	AE577	63	BANDF15	61	BTN120-M	21
8428-18	81	94-FC630-1/C	139	A5-M	21	AE601	60	BANDF21	61	BTN150-M	21
8428-6	81	94-FC631-1/C	139	A60-2M12	22	AE602	60	BANDF22	61	BTN16-M	21
8429-12	81	94-FC640-1/C	139	A60-4ESI	22	AE603	60	BANDF23	61	BTN185-M	21
8429-18	81	94-FP-435-3/C	139	A60-M	21	AE604	60	BANDF24	61	BTN240-M	21
8429-6	81	94-FP-436-3/C	139	A7-M	21	AE605	60	BANDF25	61	BTN25-M	21
8429-9	81	94-PG-620-1	138	A80-2M12	22	AE611	60	BANDF26	61	BTN300-M	21
8430-18	81	95-AC645-1-	141	A80-4ESI	22	AE612	60	BANDF27	61	BTN35-M	21
8430-9	81	240/C		A80-M	21	AE613	60	BB1	179	BTN50-M	21
871906/40	222	95-AC645-1-	141	AA120-M	24	AE614	60	BB14	179	BTN70-M	21
871907/41	222	400/C		AA150-M	24	AE615	60	BB3	179	BTN95-M	21
871909/43	222	95-EB62-2	126	AA185-M	24	AE701	60	BB41	179	BU1 - SMOE	130
871909/44	222	95-EP631-2	126	AA185-M	24	AE702	60	BB7	179	61745	
871911/45	222	96-EP720-2(CWS)	148	AA240-M	24	AE703	60	BBIT100/40-A/U	84	BU1 - SMOE	131
871911/46	222	96-EP722-2	148	AA25-M	24	AE704	60	BBIT150/60-A/U	84	61745	
871911/47	222	(LEAD SHEATH)		AA300-34-M	24	AE705	60	BBIT175/80-A/U	84	BU2 - SMOE	130
91-NBA-0	92	96-EP730-2	148	AA35-M	24	AE711	60	BBIT25/10-A/U	84	61760	
91-NBA-1	92	(CWS)		AA50-M	24	AE712	60	BBIT40/16-A/U	84	BU2 - SMOE	131
91-NBA-3	92	96-EP732-2	148	AA70-M	24	AE713	60	BBIT65/25-A/U	84	61760	
91-NBA-4	92	(LEAD SHEATH)		AA95-M	24	AE714	60	BET120C	25	BU3 - SMOE	130
91-NBA-5	92	A03-M	21	AE010*	64	AE715	60	BET35C	25	61798	
91-NBA-6	92	A06-M	21	AE018*	64	AL406	164	BET60C	25	BU3 - SMOE	131
91-NBA-7	92	A1-M	21	AE035	64	AL506	164	BF-M	20	61798	
92-AK610-I/C	134	A1/A2 20	9	AE036	64	APED 521B	149	BF-P	20	BW20	10
92-AK612-1/C	135	A1/A2 20 LSF	9	AE043	64	APED 722B	149	BF-PP	20	BW20 LSF	10
92-AK620-I/C	134	A1/A2 20S	9	AE044	64	APED 722P	149	BLMT-120/300	28	BW20S	10
92-AK622-1/C	135	A1/A2 20S LSF	9	AE045	64	APED36P	125	BLMT-185/400	28	BW20S LSF	10
92-AK623-1/C	135	A1/A2 20SS	9	AE046	64	APED52B	125	BLMT-25/95	28	BW25	10
92-AK630-I/C	134	A1/A2 20SS LSF	9	AE047	64	AR101	94	BLMT-35/150	28	BW25 LSF	10
92-AK632-I/C	134	A1/A2 25	9	AE048	64	AR102	94	BLMT-500/630	28	BW32	10
92-AK633-1/C	135	A1/A2 25 LSF	9	AE049	64	AR3	94	BLMT-800	28	BW32 LSF	10
92-AV610-3/C	130	A1/A2 32	9	AE050	64	AR4	94	BLMT-95/240	28	BW40	10
		A1/A2 32 LSF	9							BW40 LSF	10

Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
BW50	10	CE1	40	CRSM198/55	79	CSJA-36E/1XU-	140	E1WLSF40	13	EPKJ 36B-3XU-	136
BW50 LSF	10	CE10	40	CRSM250/98	79	1XU-M2		E1WLSF50	13	3XU-W	
BW63	10	CE11	40	CRSM34/10	79	CSJA-36E/1XU-	140	E1WLSF50S	13	EPKJ 36C-1HL-	136
BW63 LSF	10	CE12	40	CRSM53/13	79	1XU-M3		E1WLSF63	13	1HL	
BW75	10	CE13	40	CRSM84/20	79	CSS-A 12250-01	117	E1WLSF63S	13	EPKJ 36C-3XU-	136
BW75 LSF	10	CE14	40	CS21	69	CSS-A 12250-02	117	E1WLSF75	13	3XU-W	
BW75S	10	CE2	40	CS22	69	CSS-A 24250-01	117	E1WLSF75S	13	EPKJ 36D-1HL-	136
BW75S LSF	10	CE3	40	CS23	69	CSS-A 24250-02	117	E25MM2BRAID	164	1HL	
C001 TOOL	224	CE4	40	CS24	69	CST14	69	E35MM2BRAID	164	EPKJ 36D-1XU-	136
C202	62	CE5	40	CS25	69	CST15	69	E50MM2BRAID	164	1HL	
C203	62	CE6	40	CS26	69	CST16	69	E70MM2BRAID	164	EPKT 36C-1XU-	136
C204	62	CE7	40	CS27	69	CT005-H	167	E7512-0160	200	1HL	
C205	62	CE8	40	CS28	69	CT105-H	167	EAKT1521	115	EPKT17A3MIH2	103
C206	62	CE9	40	CS29	69	CT110-H	167	EAKT1524	115	EPKT17A3MIH4	103
C252	62	CEH10	40	CS31	69	CT115-H	167	EAKT1605	109	EPKT17A3MOH2	105
C253	62	CEH11	40	CS32	69	CW20	11	EAKT1606	109	EPKT17A3MOH4	105
C254	62	CEH12	40	CS33	69	CW20 LSF	11	EAKT1608	109	EPKT17A3XIH2	102
C255	62	CEH13	40	CS34	69	CW20S	11	EAKT1636	112	EPKT17A3XIH4	102
C256	62	CEH14	40	CS35	69	CW20S LSF	11	EAKT1637	112	EPKT17A3XOH2	104
C370BA01	42	CEH9	40	CS36	69	CW20SS	11	EAKT1638	112	EPKT17A3XOH4	104
C370BA02	42	CENTRITILE 150	74	CS37	69	CW20SS LSF	11	EAKT1641	112	EPKT17B3MIH2	103
C370BA03	42	CENTRITILE 200	74	CS38	69	CW25	11	EAKT1642	112	EPKT17B3MIH4	103
C370BA04	42	CERAMIC KNIFE	214	CS39	69	CW25 LSF	11	EAKT1642	112	EPKT17B3MOH2	105
C370BA05	42	CES-1	109	CS610-3	130	CW32	11	EAKT1643	112	EPKT17B3MOH4	105
C370BA06	42	CES-2	109	CS620-3	130	CW32 LSF	11	EAKT1643	112	EPKT17B3XIH2	102
C370BA07	42	CES-3	109	CS630-3	130	CW40	11	EAKT1644	112	EPKT17B3XIH4	102
C370BA08	42	CES-4	109	CSCAK/1	82	CW40 LSF	11	EAKT1645	112	EPKT17B3XOH2	104
C370BA09	42	CES-5	109	CSCAK/2	82	CW50	11	EAKT1655	111	EPKT17B3XOH4	104
C403	62	CG013	170	CSCAK/3	82	CW50 LSF	11	EAKT1656	111	EPKT17C3MIH2	103
C404	62	CG270	169	CSCAK/4	82	CW50S	11	EAKT1657	111	EPKT17C3MIH4	103
C405	62	CG370	169	CSCAK/5	82	CW50S LSF	11	EAKT1658	111	EPKT17C3MOH2	105
C406	62	CM015	171	CSD01	80	CW63	11	EAKT1659	111	EPKT17C3MOH4	105
C453	62	CM015-PM	171	CSD02	80	CW63 LSF	11	EAKT1669	111	EPKT17C3XIH2	102
C454	62	CN005	167	CSD03	80	CW75	11	EAKT1670	111	EPKT17C3XIH4	102
C455	62	CN105-H	167	CSD04	80	CW75 LSF	11	EAKT1671	111	EPKT17C3XOH2	104
C456	62	CO75 TOOL -	224	CSD05	80	CW85	11	EAKT1672	111	EPKT17C3XOH4	104
CA120-2M	27	BANTAM		CSE-A 12250-01	117	CW85 LSF	11	EC-1	82	EPKT17D3MIH2	103
CA150-2M	27	CP015	166	CSE-A 12250-02	117	CWB18-60	216	EC-2	82	EPKT17D3MIH4	103
CA185-2M	27	CP020	166	CSE-A 12400-01	118	CWCIEL20	14	EC-3	82	EPKT17D3MOH2	105
CA240-2M	27	CP025	166	CSE-A 12400-02	118	CWCIEL20S	14	EC-4	82	EPKT17D3MOH4	105
CA25-2M	27	CP030	166	CSE-A 12630-01	120	CWCIEL25	14	EC18-36	80	EPKT17D3XIH2	102
CA300-2M	27	CP035	166	CSE-A 12630-02	120	CWCIEL32	14	EC28-50	80	EPKT17D3XIH4	102
CA35-2M	27	CP040	166	CSE-A 12630-03	120	CWCIEL40	14	EC38-70	80	EPKT17D3XOH2	104
CA50-2M	27	CP045	166	CSE-A 24250-01	117	CWCIEL50	14	EC4-9	80	EPKT17D3XOH4	104
CA70-2M	27	CP050	166	CSE-A 24250-02	117	CWCIEL63	14	EC55-95	80	EPKT36C1X1	106
CA95-2M	27	CP065	166	CSE-A 24400-01	118	CWCIEL75	14	EC70-110	80	EPKT36C1X0	107
CABLE KNIFE	214	CP110-H	166	CSE-A 24400-02	118	CWCIEL85	14	EC8-18	80	EPKT36C3XIH2	108
CAMPAIN	181	CP120-H	166	CSE-A 24630-01	120	CX005-H	167	ECHD125	165	EPKT36C3XIH4	108
CAUTIONPREMIUM	73	CP210-H	166	CSE-A 24630-02	120	CX105-H	167	ECHD185	165	EPKT36C3XOH4	108
CB016	165	CP220-H	166	CSE-A 24630-03	120	DENSO MASTIC	158	ECHD50	165	EPKT36D1X1	106
CB025	165	CP240-H	166	CSE-A 36400-01	118	DENSO PASTE	158	ECHD70	165	EPKT36D1X0	107
CB035	165	CP260-H	166	CSE-A 36400-02	118	DENSO TAPE 100	158	ECHD95	165	EPKT36D3XIH2	108
CB050-FU	165	CR011-***	70	CSE-A 36630-01	120	DENSO TAPE 50	158	ECKJ-0017	93	EPKT36D3XIH4	108
CB070	165	CR04.5-***	70	CSE-A 36630-02	120	DENSO TAPE 75	158	ECKJ-0018	93	EPKT36D3XOH4	108
CB095	165	CR06-***	70	CSE-A 36630-03	120	DENSOFIL	158	ECKJ-0019	93	EPKT36E1X1	106
CB120	165	CR09-***	70	CSEP-A 12630-01	120	DETECTAMESH	73	ECKJ-0020	93	EPKT36E1X0	107
CB120	179	CR105	172	CSEP-A 12630-02	120	DR2	68	ECKJ-0021	93	EPKT36E3XIH2	108
CB240	165	CR105	172	CSEP-A 12630-03	120	DR3	68	ECKJ-0140	93	EPKT36E3XIH4	108
CB400-FU	165	CR115	172	CSEP-A 24630-01	120	DST200	169	ECKJ-0141	93	EPKT36E3XOH4	108
CB400-FU	179	CR125	172	CSEP-A 24630-02	120	DST300	169	ECKJ-0142	93	EPKT36F1X1	106
CB5	179	CR1CR2	179	CSEP-A 24630-03	120	E120MM2BRAID	164	ECKJ-0143	93	EPKT36F1X0	107
CBD-***	70	CR205	172	CSEP-A 36630-01	120	E16MM2BRAID	164	ECKJ-0144	93	EPPA-045-1	110
CC016	165	CR215	172	CSEP-A 36630-02	120	E1W20	13	ECW-H3D	208	EPPA-045-2	110
CC025	165	CR225	172	CSEP-A 36630-03	120	E1W20S	13	EHVS-52H-1-	141	EPPA-050-X/Y	34
CC035	165	CR24	179	CSJA-12B/1XU-	134	E1W20SS	13	W-1D		EPPA-051-XX/XX	34
CC050	165	CR305	173	1XU-M		E1W25	13	EHVS-52H-1-	141	W-2D	
CC070	165	CR310	173	CSJA-12C/1XU-	134	E1W32	13	W-2D		EPPA-052-XX/XX	34
CC095	165	CR320	173	1XU-M		E1W40	13	EP10 ELECTRIC	209	EPPA-053-X/Y	34
CC120-FU	165	CR3CR17	179	CSJA-12D/1XU-	134	E1W50	13	PUMP		EPPA-054-XX/XX	34
CC120-FU	179	CR515	172	1XU-M		E1W50S	13	EPKJ 36A-1HL-	136	EPPA-061-X/Y	34
CC240	165	CR520	172	CSJA-12E/1XU-	134	E1W63	13	1HL		EXRM-0607	214
CC240	179	CR700	173	1XU-M1		E1W63S	13	EPKJ 36A-1XU-	136	EXRM-0947	214
CC400-FU	165	CR700	173	CSJA-12E/1XU-	134	E1W75	13	1HL		EXRM-0969-39	115
CC400-FU	179	CR705	173	1XU-M2		E1W75S	13	EPKJ 36A-3XU-	136	EXRM-1004	214
CC6	179	CR705	173	CSJA-36D/1XU-	140	E1WLSF20	13	3XU-W		F71003-02	157
CC7	179	CR730	173	1XU-M		E1WLSF20S	13	FBB06X20	54	FBB06X30	54
CE0	40	CR730	173	CSJA-36E/1XU-	140	E1WLSF20SS	13	FBB08X25	54	FBB08X30	54
CE00	40	CRSM107/29	79	1XU-M1		E1WLSF25	13	EPKJ 36B-1XU-	136	FBB08X30	54
		CRSM143/36	79			E1WLSF32	13	1HL		FBB08X40	54

Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
FBB10X25	54	GACW75	12	IXSU-F-3141	98	KE1378	59	LK245-12	175	MJ-LOV-A-TX	132
FBB10X30	54	GACW75LSF	12	IXSU-F-3151	98	KE1388	59	LK245-16	175	MJ-LOV-A-TX-PI	132
FBB10X40	54	GACWCIEL32	15	IXSU-F-3161	98	KE9229	224	LK245-20	175	MJ-LOV-A-TX-PI	132
FBB10X50	54	GACWCIEL40	15	IXSU-F-3301	102	KMS	214	LK245-24	175	MJ-LOV-A-TX-XA	132
FBB12X35	54	GACWCIEL50	15	IXSU-F-3304	102	KMS BLADE	214	LK245-28	175	MJ-LOV-A-TX-XA	132
FBB12X40	54	GACWCIEL63	15	IXSU-F-3311	102	KT-4	215	LK245-4	175	MJ-LOV-A-TX-XA	132
FBB12X50	54	GACWCIEL75	15	IXSU-F-3314	102	L03-M	23	LK245-6	175	MJ-LOV-A-TX-XU	132
FBB12X70	54	GAP-APED	149	IXSU-F-3321	102	L06-M	23	LK245-8	175	MJ-LOV-A-TX-XU	132
FBN06	54	GF-M	20	IXSU-F-3324	102	L1-M	23	LO41	81	MJ-LOV-A-TX-XU	132
FBN08	54	GF-P	20	IXSU-F-3331	102	L10-M	23	LO42	81	MJ-LOV-A/B-	132
FBN10	54	GF-PP	20	IXSU-F-3334	102	L100-M	23	LR120-M	23	TX-XA	
FBN12	54	GHM2X1	196	IXSU-F-3341	102	L10PIN	22	LR150-M	23	MJ-LOV-A/B-	132
FBSW06	55	GHM2X2	196	IXSU-F-3344	102	L120-M	23	LR185-M	23	TX-XA	
FBSW08	55	GHM4X1	196	J70131-02	157	L120PIN	22	LR240-M	23	MJ-LOV-A/B-	132
FBSW10	55	GHM4X2	196	JAP	157	L14-M	23	LR300-M	23	TX-XU	
FBSW12	55	GUROFLEX-	159	JBR-16	91	L150PIN	22	LR50-M	23	MJ-LOV-A/B-	132
FBW06	55	MV-C1000		JBR-185	91	L160-M	23	LR70-M	23	TX-XU	
FBW08	55	GUROFLEX-	159	JBR-300	91	L16PIN	22	LR95-M	23	MJ-LOV-B-TX	132
FBW10	55	MV-C530		JBR-35	91	L185PIN	22	LS22	196	MJ-LOV-B-TX-PI	132
FBW12	55	GWCX	110	JBR-6	91	L19-M	23	LS24	196	MJ-LOV-B-TX-XA	132
FCNL06	54	GWCY	110	JBR-95	91	L2-M	23	LS26	196	MJ-LOV-B-TX-XU	132
FCNL08	54	H3366	223	JEM 200P (S	156	L200-M	23	LS28	196	MK-520	212
FCNL10	54	HAB 25 (3359)	223	POWER)		L24-M	23	LUB-I	71	MK-520	212
FCNL12	54	HAB32-15 (3349)	223	JEM 600 9XJ	156	L240PIN	22	LUB-P	71	MR2016	16
FCNN06	54	HD12BK	58	JP1	26	L25PIN	22	LVET120	25	MR2520	16
FCNN08	54	HD12WH	58	JPS	157	L3-M	23	LVET185	25	MR3220	16
FCNN10	54	HD15BK	58	JR391	157	L30-M	23	LVET300	25	MR3225	16
FCNN12	54	HD15WH	58	JSA	149	L300PIN	22	LVI-1/2-PT	92	MR4025	16
FCNS06	54	HD21BK	58	JSSC	156	L35PIN	22	LVI-1/3-PT	92	MR4032	16
FCNS08	54	HD21WH	58	JST16	89	L37-M	23	LVI-1/4-PT	92	MR5032	16
FCNS10	54	HD30BK	58	JST185	89	L400PIN	22	LVI-1/5-PT	92	MR5040	16
FCNS12	54	HD30WH	58	JST300	89	L48-M	23	LVI-1/6-PT	92	MR6350	16
FFW06	55	HDC-A 12250	123	JST35	89	L5-M	23	LVI-3/2-C	92	MT120-GC	30
FFW08	55	HDC-A 12630-01	123	JST400	89	L50PIN	22	LVI-3/3-C	92	MT120-TD	29
FFW10	55	HDC-A 12630-02	123	JST6	89	L60-M	23	LVI-3/4	92	MT150-GC	30
FFW12	55	HDC-A 12630-03	123	JST95	89	L7-M	23	LVI-3/5	92	MT150-TD	29
FHB06X20	54	HDC-A 24250	123	JT250	72	L70PIN	22	LVI-3/6	92	MT16-TD	29
FHB06X30	54	HDC-A 24630-01	123	JTALLOW	157	L80-M	23	LVI-3/7	92	MT185-GC	30
FHB08X25	54	HDC-A 24630-02	123	JTS	157	L95PIN	22	LVI-3/8	92	MT185-TD	29
FHB08X30	54	HDC-A 24630-03	123	K502 TOOL	224	LA11	81	LVRM6	221	MT240-GC	30
FHB08X40	54	HDC-A 36630-01	123	KA 250	123	LC1	94	LVRM9	221	MT240-TD	29
FHB10X25	54	HDC-A 36630-02	123	KE0128	59	LC2	94	M10X100	55	MT25-GC	30
FHB10X30	54	HDC-A 36630-03	123	KE0138	59	LC3	94	M10X125	55	MT25-TD	29
FHB10X40	54	HP3	215	KE0148	59	LC4	94	M10X150	55	MT300-GC	30
FHB10X50	54	HT-FL75	213	KE0158	59	LC5	94	M10X200	55	MT300-TD	29
FHB12X35	54	HT-TC026	211	KE0168	59	LC6	94	M10X225	55	MT35-GC	30
FHB12X40	54	HT-TC051	211	KE0178	59	LD06BK	58	M10X85	55	MT35-TD	29
FHB12X50	54	HT-TC0851	211	KE0188	59	LD06WH	58	M503 TOOL	224	MT400-GC	30
FHB12X70	54	HT101-51	78	KE0228	59	LD08BK	58	MA 250	123	MT400-TD	29
FHN06	54	HT12.7-6.4	78	KE0238	59	LD08WH	58	MA-3D	212	MT50-GC	30
FHN08	54	HT131	206	KE0248	59	LD12BK	58	MA-520	212	MT50-TD	29
FHN10	54	HT19-9.5	78	KE0258	59	LD12WH	58	MA-C	212	MT500-TD	29
FHN12	54	HT25.4-12.7	78	KE0268	59	LHA	217	MARCONITE	171	MT630-TD	29
FILOSEAL+125MM	198	HT38-19	78	KE0278	59	LHA2	217	MARCONITE-PM	171	MT70-GC	30
FILOSEAL+200MM	198	HT45-E	206	KE0328	59	LHA3	217	MB63	113	MT70-TD	29
FS005	174	HT51	206	KE0338	59	LHM1R30/45	216	MCB25	26	MT95-GC	30
FSW06	55	HT51-25.4	78	KE0348	59	LHM2R30/60	216	MCB50	26	MT95-TD	29
FSW08	55	HT6.4-3.2	78	KE0358	59	LK004	176	MCB70	26	MTMA10-GC	24
FSW10	55	HT76.2-38	78	KE0368	59	LK205	176	MD06BK	58	MTMA120-GC	24
FSW12	55	HT9.5-4.8	78	KE0378	59	LK207-10	176	MD06WH	58	MTMA150-GC	24
G101-123	159	HVBT-12-A	83	KE0388	59	LK207-12	176	MD08BK	58	MTMA16-GC	24
G38A	159	HVBT-14-A	83	KE0428	59	LK207-16	176	MD08WH	58	MTMA185-GC	24
GACW20	12	HVBT-15-A	83	KE0438	59	LK207-20	176	MD12BK	58	MTMA240-GC	24
GACW20LSF	12	HVBT-16-A	83	KE0448	59	LK207-24	176	MD12WH	58	MTMA25-GC	24
GACW20S	12	HVIA-STRIPPER	217	KE0458	59	LK207-28	176	MD15BK	58	MTMA35-GC	24
GACW20LSLF	12	35-90		KE0468	59	LK207-4	176	MD15WH	58	MTMA50-GC	24
GACW25	12	HVIA-STRIPPER	217	KE0478	59	LK207-6	176	MDIII-110	198	MTMA70-GC	24
GACW25LSF	12	75-150		KE1128	59	LK207-8	176	MDIII-160	198	MTMA95-GC	24
GACW32	12	HVIS-05	83	KE1138	59	LK207-10	175	MDIII-200	198	MTMAD300-GC	24
GACW32LSF	12	HVIS-10	83	KE1148	59	LK243-12	175	MDIII-25	198	MWTM10/3	78
GACW40	12	HVIS-TOOLS-01	83	KE1158	59	LK243-16	175	MDIII-250	198	MWTM115/34	78
GACW40LSF	12	HVRM	221	KE1168	59	LK243-20	175	MDIII-50	198	MWTM140/42	78
GACW50	12	IHVT-72	148	KE1178	59	LK243-24	175	MDIII-75	198	MWTM16/5	78
GACW50LSF	12	IN005	176	KE1188	59	LK243-28	175	ME-3D	212	MWTM160/50	78
GACW50S	12	IP 250	123	KE1328	59	LK243-4	175	ME-3D	212	MWTM180/60	78
GACW50LSLF	12	IT-1000-010	214	KE1338	59	LK243-6	175	ME-C	212	MWTM25/8	78
GACW63	12	IXSU-F-3111	98	KE1348	59	LK243-8	175	ME-C	212	MWTM35/12	78
GACW63LSF	12	IXSU-F-3121	98	KE1358	59	LK245-10	175	MJ-LOV-A-TX	132	MWTM50/16	78
		IXSU-F-3131	98	KE1368	59					MWTM63/19	78

Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
MWTM75/22	78	PL03-M	20	RS68	197	SCOTCH22-19	185	ST015	170	TC940	163
MWTM85/25	78	PL06-M	20	RS75	197	SCOTCH22-25	185	SW1B10	43	TC980	163
MWTM95/29	78	PL1-M	20	RSES-5201	117	SCOTCH22-38	185	SW1B11	43	THG1	109
MXSB-12A-1XU-2XU	135	PO 7000	209	RSES-5202	117	SCOTCH22-50	185	SW1B12	43	THG2	109
MXSB-12B-1XU-2XU	135	POH12	65	RSES-5203	117	SCOTCH2220	187	SW1B2	43	THGS1 (COLD SHRINK SEAL)	109
MXSB-12C-1XU-2XU	135	POH18	65	RSES-5205	117	SCOTCH2221	189	SW1B3	43	THGS2 (COLD SHRINK SEAL)	109
MXSU-3111	133	POH30	65	RSES-5217	117	SCOTCH2228	188	SW1B4	43	TILE 152-12	74
MXSU-3121	133	POH7	65	RSES-5219	117	SCOTCH2229	188	SW1B5	43	TILE 152-6	74
MXSU-3131	133	POK10	65	RSES-5224	117	SCOTCH23-19	186	SW1B6	43	TILE 244-12	74
MXSU-3131-T2	133	PSSK 1	123	RSES-6451	118	SCOTCH23-25	186	SW1B7	43	TILE 300-12	74
MXSU-3141	133	PSSK 2	123	RSES-6452	118	SCOTCH23-38	186	SW1B8	43	TLM/20L	71
MXSU-3141-T2	133	PS22	196	RSES-6455	118	SCOTCH23-50	186	SW1B9	43	TOL/GTK	223
MXSU-3151	133	PS24	196	RSRB4022	113	SCOTCH2510	191	SXAW-3121	134	TR5	68
MXSU-3151-T6	133	PS26	196	RSRB4024	113	SCOTCH27	191	SXAW-3131	134	TRN76	68
MXSU-3161	133	PS28	196	RSRB4026	113	SCOTCH33-19	184	SXAW-6122	138	TROTRED	204
MXSU-3161-T7	133	PT004	174	RSRB4042	113	SCOTCH33-25	184	SXAW-6132	138	TROTROF	204
MXSU-3171	133	PT005	174	RSRB4044	113	SCOTCH33-38	184	SXAW-6142	138	TRS-B70	209
MXSU-3181	133	PT006	174	RSRB4046	113	SCOTCH33+	185	SXAW3151	134	TSJ-120	88
MXSU-3181-T8	133	PT007	174	RSS5-5201	117	SCOTCH35BR	184	SXSU-3111	133	TSJ-16	88
MXSU-6111	137	PT205	174	RSS5-5202	117	SCOTCH35GR	184	SXSU-3121	133	TSJ-185	88
MXSU-6121	137	PZ02	65	RSS5-5203	117	SCOTCH35OR	184	SXSU-3131	133	TSJ-300	88
MXSU-6131	137	PZ1	65	RSS5-5205	117	SCOTCH35RE	184	SXSU-3141	133	TSJ-35	88
MXSU-6141	137	PZ2	65	RSS5-5217	117	SCOTCH35VI	184	SXSU-6122	137	TSJ-6	88
MXSU-6141-T4	137	PZ3	65	RSS5-5219	117	SCOTCH35WH	184	SXSU-6132	137	TSJ-70	88
MXSU-6151	137	R100	196	RSTI-5851	119	SCOTCH35YE	184	SXSU-6141	137	TSJ-120-HDI	88
MXSU-6151-T6	137	R125	196	RSTI-5852	119	SCOTCH50-101	190	SXSU-6151	137	TSJ-16-HDI	88
MXSU-6161	137	R127	196	RSTI-5853	119	SCOTCH50-25	190	SXSU-6161	137	TSJ-185-HDI	88
MXSU-6161-T6	137	R150	196	RSTI-5854	119	SCOTCH50-50	190	T1700PL	189	TSJ-300-HDI	88
MXSU-6161-T7	137	R200	196	RSTI-5855	119	SCOTCH51-101	190	T1700PL1	189	TSJ-35-HDI	88
MXSU-6171	137	RB205-FU	169	RSTI-5856	119	SCOTCH51-25	190	T1700PL2	189	TSJ-6-HDI	88
MXSU-6171-T8	137	RB210	169	RSTI-6851	119	SCOTCH51-50	190	T1700PL3	189	TT2352/1	216
MXSU-6181-T8	137	RB215	169	RSTI-6852	119	SCOTCH5313	189	T1700PN	189	TT2352/2	216
MXSW-3311-GB01	135	RB220-FU	169	RSTI-6855	119	SCOTCH69-12	191	TA030	163	UBR185	26
MXSW-3331	135	RB225	169	RSTI-CC-5851	119	SCOTCH69-15	191	TA040	163	UBR300	26
MXSW-3332	135	RB235	169	RSTI-CC-5852	119	SCOTCH69-19	191	TA068	163	UBR95	26
OHVT-5212	126	RB305	169	RSTI-CC-5853	119	SCOTCH69-25	191	TA080	163	UKRA 90	123
OHVT-5213	126	RB310	169	RSTI-CC-5854	119	SCOTCH69-38	191	TA105	163	UNIAL	157
OHVT-72	148	RB320-FU	169	RSTI-CC-5855	119	SCOTCH69-50	191	TA110	163	UST185	26
OHVT-72-L	148	RB325	169	RSTI-CC-5856	119	SCOTCH69-6	191	TA115	163	UST300	26
OXSU-F-3111	100	RB335	169	RSTI-CC-6851	119	SCOTCH69-9	191	TA120	163	UST95	26
OXSU-F-3121	100	RC-52	215	RSTI-CC-6852	119	SCOTCH70	186	TA125	163	VETB21-OHUTB	29
OXSU-F-3131	100	RC010	170	RSTI-CC-6853	119	SCOTCH88-19	185	TA130	163	VETB28-OHUTB	29
OXSU-F-3141	100	RC015	170	RSTI-CC-6854	119	SCOTCH88-25	185	TAPECAUTION	73	VETB33-OHUTB	29
OXSU-F-3151	100	RCAB-C-421	113	RSTI-CC-6855	119	SCOTCH88-38	185	TBJ-120	90	VETB37-OHUTB	29
OXSU-F-3161	100	RCT SPARE	215	S1061-8-300	83	SCOTCHFIL	187	TBJ-16	90	VTPB21-UTB	30
OXSU-F-3301	104	CHAIN		SB1	70	SCOTCHHRAP	190	TBJ-185	90	VTPB27-UTB	30
OXSU-F-3304	104	RCT155	215	SB1-R	70	SFB28 (334791)	223	TBJ-300	90	VTPC36-UTB	30
OXSU-F-3311	104	RDSS-100	200	SB2	70	SFB38 (334191)	223	TBJ-35	90	WAVELAY	73
OXSU-F-3314	104	RDSS-125	200	SB2-R	70	SFB50 (334891)	223	TBJ-70	90	WCSM110/30	79
OXSU-F-3321	104	RDSS-150	200	SB3	70	SHSS-12A-IND	130	TBJ-120-HDI	90	WCSM12/3	79
OXSU-F-3324	104	RDSS-45	200	SB3-R	70	SHSS-12B-IND	130	TBJ-16-HDI	90	WCSM130/35	79
OXSU-F-3331	104	RDSS-60	200	SB4	70	SL3	70	TBJ-185-HDI	90	WCSM16/4	79
OXSU-F-3334	104	RDSS-75	200	SB4-R	70	SL5	70	TBJ-300-HDI	90	WCSM160/50	79
OXSU-F-3337	104	RDSS-AD-210	200	SB5	70	SL7	70	TBJ-6-HDI	90	WCSM180/50	79
OXSU-F-3341	104	RDSS-CLIP-100	200	SB5-R	70	SMOE50383	114	TBJ-70-HDI	90	WCSM24/6	79
OXSU-F-3344	104	RDSS-CLIP-125	200	SB6	70	SMOE61203	111	TC030	162	WCSM34/8	79
OXSU-F-3344	104	RDSS-CLIP-150	200	SB6-R	70	SMOE61203 (MEC5) 11KV		TC040	162	WCSM48/12	79
P20301-L021-1-1	72	RDSS-CLIP-45	200	SB7	70	SMOE61987	131	TC065	162	WCSM56/16	79
PA-3D	212	RDSS-CLIP-75	200	SB7-R	70	(BRANCH JOINT)		TC066	162	WCSM70/20	79
PA-520	212	RDSS-IT-16	200	SB8	70	SMOE62668 (POT END)	131	TC075	162	WCSM90/25	79
PA-C	212	RE-APED-M	149	SB8-R	70	SMOE62803	113	TC080	162	WK120	197
PC 630/250	123	RE-APED-T	149	SCK	149	SMOE63180	131	TC085	211	WPB-***	70
PE010	171	RF-M	20	SCOTCH 2200	188	SMOE63181	131	TC096	211	ZHCP-NR-1-0	63
PE020	171	RF-P	20	PADS		SMOE63410	131	TC105-FU	162	ZHCP-NR-2-0	63
PE110	171	RF-PP	20	SCOTCH 2210-19	188	SMOE63411	131	TC111-FU	162	ZHCP-NR-3-0	63
PE120	171	RH-FL75	213	SCOTCH 2210-38	188	SMOE82051	94	TC115-FU	162	ZHCP-NR-4-0	63
PFISTERER TOOL	220	RHC131	208	SCOTCH13	187	SMOE82231	94	TC120	211	ZHCP-NR-6-0	63
PFQD	72	RHU-520	208	SCOTCH130C-19	186	SMOE82244	94	TC120-FU	162		
PG2-HTA	216	RM15	197	SCOTCH130C-25	186	SP010	170	TC125-FU	162		
PG3-EC	216	RM20	197	SCOTCH130C-38	186	SP015	170	TC130	162		
PG3-HTA	216	RM30	197	SCOTCH130C-50	186	SPARE BATTERY	209	TC140-FU	162		
PG4-HTA	216	RM40	197	SCOTCH1601	192	SSZ	196	TC145	162		
PG5-HTB	216	RM60	197	SCOTCH1602	192	ST010	170	TC910	163		
PG6-HTB	216	RS100	197	SCOTCH1609	192						
PIU-APED	149	RS125	197	SCOTCH1617	192						
PKH110	65	RS25	197	SCOTCH1625	192						
PKH70	65	RS31	197	SCOTCH1626	193						
		RS43	197	SCOTCH1633	193						
		RS50	197	SCOTCH22-12	185						

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