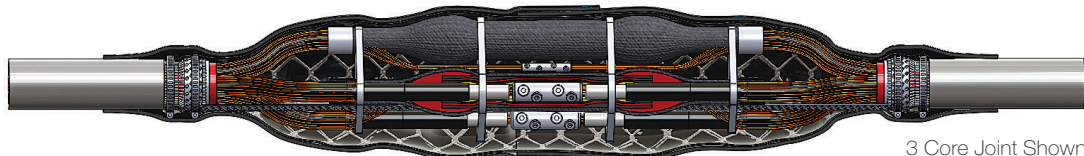




# Straight Through Joints with Shear Bolts to 11kV

# Accessories and Components

# Product Training and Support



3 Core Joint Shown

Part No.	kV	Mechanical Links	Dielectric	Description	Phases
SINGLE CORE 11kV UNARMoured					
H11J1X2	6.35/11	Yes	XLPE	HS Joint (Splice) 11kV SC UA 35-95mm <sup>2</sup> with mechanical links	1
H11J1X3	6.35/11	Yes	XLPE	HS Joint (Splice) 11kV SC UA 95-240mm <sup>2</sup> with mechanical links	1
H11J1X4	6.35/11	Yes	XLPE	HS Joint (Splice) 11kV SC UA 185-400mm <sup>2</sup> with mechanical links	1
H11J1X5	6.35/11	Yes	XLPE	HS Joint (Splice) 11kV SC UA 400-630mm <sup>2</sup> with mechanical links	1

Single core joints are supplied in 1 phase only.

3 CORE 11kV UNARMoured					
H11J3X2	6.35/11	Yes	XLPE	HS Joint (Splice) 11kV 3C UA 35-95mm <sup>2</sup> with mechanical links	3
H11J3X3	6.35/11	Yes	XLPE	HS Joint (Splice) 11kV 3C UA 95-240mm <sup>2</sup> with mechanical links	3
H11J3X4	6.35/11	Yes	XLPE	HS Joint (Splice) 11kV 3C UA 185-400mm <sup>2</sup> with mechanical links	3
H11J3X5	6.35/11	Yes	XLPE	HS Joint (Splice) 11kV 3C UA 400-630mm <sup>2</sup> with mechanical links	3
3 CORE 11kV ARMoured					
H11J3AX2	6.35/11	Yes	XLPE	HS Joint (Splice) 11kV 3C Arm 35-95mm <sup>2</sup> with mechanical links	3
H11J3AX3	6.35/11	Yes	XLPE	HS Joint (Splice) 11kV 3C Arm 95-240mm <sup>2</sup> with mechanical links	3
H11J3AX4	6.35/11	Yes	XLPE	HS Joint (Splice) 11kV 3C Arm 185-400mm <sup>2</sup> with mechanical links	3
H11J3AX5	6.35/11	Yes	XLPE	HS Joint (Splice) 11kV 3C Arm 400-630mm <sup>2</sup> with mechanical links	3

## Straight Through Joints with Shear Bolted Mechanical Links up to 11kV

1	2	3	4	5	6	7
H	11	J	3		X	3

E.g. Heatshrink, 11kV, Joint, 3 Core, XLPE-XLPE, 95-240mm<sup>2</sup>

**1** = H Series  
**2** = Voltage class  
**3** = Joint (Splice)  
**4** = Cores  
    **1** = 1 Core  
    **3** = 3 Core  
**5** = Leave blank if Unarmoured  
    A = Armoured  
**6** = Dielectric  
    X = XLPE/EPR  
    P = PILC  
**7** = Cable size (mm<sup>2</sup>)  
    **1** = 16-35  
    **2** = 35-95  
    **3** = 95-240  
    **4** = 185-400  
    **5** = 400-630

**Abbreviations:**  
3C = Three Core ; SC = Single Core; UA = Unarmoured; Arm = Armoured; HS = Heatshrink

## Medium Wall Heatshrink Tubing up to 36kV

MEDIUM VOLTAGE BUSBAR INSULATION HEATSHRINK						
Part No.	Image	Description	Length	Expanded ID (mm)	Recovered	
					Tube ID (mm)	Wall Thickness (mm)
BBMV15-6		MV heat shrink 15/6	30m	15	6	2
BBMV30-12		MV heat shrink 30/12	30m	30	12	2.3
BBMV50-20		MV heat shrink 50/20	15m	50	20	2.5
BBMV75-30		MV heat shrink 75/30	15m	75	30	2.6
BBMV120-50		MV heat shrink 120/50	1.2m	120	50	3
BBMV180-60		MV heat shrink 180/60	1.2m	180	60	3.3
BBMV205-75		MV heat shrink 205/75	1.2m	205	75	3.8
BBMV235-75		MV heat shrink 235/75	1.2m	235	75	3.8

## Heatshrink Busbar Insulation Tape up to 36kV

Part No.	Image	Description	Width (mm)	Recovered Wall Thickness (mm)	Roll Length (mm)
BIT25-5		Busbar Insulation Tape 5m Rolls 25mm Wide	25	1	5
BIT25-10		Busbar Insulation Tape 10m Rolls 25mm Wide	25	1	10
BIT50-10		Busbar Insulation Tape 10m Rolls 50mm Wide	50	1	10
BIT100-10		Busbar Insulation Tape 10m Rolls 100mm Wide	100	1	10

## Heatshrink Zip Tube

Part No.	Image	Description	OD Expanded (mm)	OD Recovered (mm)	Recovered Wall Thickness (mm)	Length (mm)
ZT36/10		Wrap around zip tube 36/10	38	9	2.4	1000
ZT55/13		Wrap around zip tube 55/13	57	13	2.5	1000
ZT85/20		Wrap around zip tube 85/20	85	20	3	1000
ZT108/27		Wrap around zip tube 108/27	110	27	3	1000
ZT136/30		Wrap around zip tube 136/30	138	30	3.2	1000
ZT180/50		Wrap around zip tube 180/50	183	50	3.2	1000

## Product Training and Support

- Product training and support provided throughout Australia and New Zealand.

## How to Select the Right POWERJOINT™ Kit

Cable specifications are required to select the correct kit. To select a suitable termination or joint note:

- The voltage class i.e. 11, 22 or 33kV.
- The cable type i.e. single core, 3 core, unarmoured or armoured.
- Is it a joint, indoor or outdoor termination?
- The cable dimension and cross section of the conductor.
- Screening method, wire screened (copper tape screen upon request only).

## Have a Question?

Email us at [sales@powerjoint.com.au](mailto:sales@powerjoint.com.au)

## Coming Soon

- 22kV Termination and Joints
- 33kV Termination and Joints
- PILC-XLPE Joints

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DL Part No. POWERJOINTDL-LPS  
In support of our policy of continuous product improvement we reserve the right to change materials and specifications without notice. Drawings, where used, are not to scale. All dimensions are in millimetres and sizes given are approximate. Where possible, technical MSDS data sheets are made available on the website. All products should be installed and used in accordance with manufacturer's instructions provided. Warning: products may be the subject of registered designs and patents. Refer to website for terms and conditions on warranty.



## 11kV Medium Voltage Cable Terminations and Joints

Certified to Australian and New Zealand Standards

Quality + Certification + Service



POWERJOINT™ is a range of premium heatshrink jointing and termination solutions for 11kV applications. POWERJOINT™ products have been type tested and certified to Australian and New Zealand standards.

The POWERJOINT™ proven range of kits suits all popular cable sizes for indoor and outdoor applications; busbar tubes and tapes up to 33kV; flexible boots to 11kV; complementary tools and accessories.

POWERJOINT™ offers a certified solution for any of your existing specifications together with engineered special kits.

Product training and support across Australia and New Zealand is offered for POWERJOINT™. Our dedicated local technical specialists provide product selection advice and after sales support in the field.

POWERJOINT™ instructions have been refined to be specific for Australasian cables and applications.

For the very best technical, type tested, and supported solution for your Heatshrink Jointing and Termination needs across Australia, New Zealand and Asia Pacific, use POWERJOINT™.

Applications:

- Medium voltage switchboards and switchgear
- Transformers
- MV motors
- Utility and private medium voltage networks
- Underground and overhead power distribution
- Heavy industrial plant and machinery
- Locomotive, rail industry
- Wind and solar farms
- Ships and port equipment

And all heavy industry electrical applications.

Benefits:

- Type tested and certified to Australian, New Zealand and IEC standards
- A few kit sizes cover a vast cable cross section range, reducing inventory cost
- A product kit is available for every popular application
- We will custom engineer a kit for your specific application
- Easy to follow installation instructions have been designed and developed for local conditions

Proven by Certification

POWERJOINT™ Kits are individually tested to AS/NZS 4805 and IEC60502-4

Test Results for Termination and Joints

Test Description	Requirements AS/NZS 4805 and IEC60502-4
	6.35/11(12)kV
AC withstand voltage test (in air and ambient temperature)	AC for 5 min. at 29kV. No breakdown, no flashover
Partial discharge	Less than 10pC
Impulse withstand test (BIL)	10 impulses of each polarity at 95kV
Heating cycles in air	30 cycles at 95°C - 100°C in air, No breakdown, No flashover
Heating cycles under water	30 cycles at 95°C - 100°C under water, No breakdown, No flashover
Partial discharge at 95°C - 100°C	Less than 10pC
Thermal short-circuit (screen)	No visible deterioration at 3.0 kA, 1s
Thermal short-circuit (conductor)	No visible deterioration at 23.0 kA, 2s
Dynamic short-circuit	No visible deterioration at 81.0 kA, not less than 10 ms
Impulse withstand test at 95°C - 100°C	10 impulses of each polarity at 95kV
AC withstand voltage test	AC for 15 min. at 21kV. No breakdown, No flashover

Product Selection Guide

Cable Terminations

1	2	3	4	5	6	7	8
H	11	O	3	A	X	3	T3

E.g. Heatshrink, 11kV, Outdoor, 3 Core, Armoured, XLPE, 95-240mm<sup>2</sup>, 650mm Tail Termination

1 = Heat Shrink

2 = Voltage Class

3 = In/Outdoor

I = Indoor

O = Outdoor

4 = Cores

1 = 1 Core

3 = 3 Core

5 = Armour

Leave blank for Unarmoured

A = Armoured

X = XLPE

P = PILC

7 = Cable size (mm<sup>2</sup>)

1 = 16-25

2 = 35-95

3 = 95-240

4 = 185-400

5 = 400-630

8 = Tail size

T2 = 450mm

T3 = 650mm

Available upon request:

T1 = 380mm

T4 = 800mm

T5 = 1200mm

If you require a longer tail length, please do not hesitate to call your local sales representative.

1 - Conductor & Red Sealing Mastic

2 - Rain Shed

3 - Anti Track Tube

4 - Stress Control Tape

5 - Stress Control Tube

6 - Anticrack Tube

7 - Red Sealant Mastic

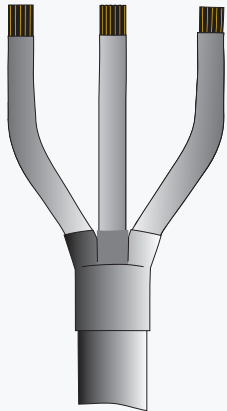
8 - Breakout Glove

9 - Termination Copper Wire Screen


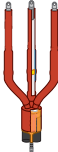
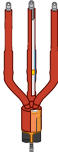

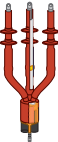
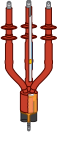
Trifurcation Kits for 11kV 3 Core Cable

Standard kits to convert 3 core cable to 3 single core cables.

Part No.	Cross section of Cable (mm <sup>2</sup> )	Cable Dimensions (mm)		Tail Length (mm)
		Cable OD	Core OD	
MEDIUM WALL				
TRIKIT11-22-25-150	25 to 150	75 to 40	30 to 10	1200
TRIKIT11-22-95-400	95 to 400	100 to 55	40 to 19	1200
HEAVY WALL				
AHTT11-22-3-1	70 to 500	100 to 55	40 to 18	3200



Cable Terminations to 11kV

Part No.	Image	kV	Tail Length mm	Description	Phases
INDOOR TERMINATIONS					
SINGLE CORE INDOOR TERMINATION KITS UNARMOURED 11kV					
H11i1X2T2		6.35/11	450mm	HS Indoor Kit 11kV SC UA 35-95mm <sup>2</sup>	3
H11i1X3T2		6.35/11	450mm	HS Indoor Kit 11kV SC UA 95-240mm <sup>2</sup>	3
H11i1X4T2		6.35/11	450mm	HS Indoor Kit 11kV SC UA 185-400mm <sup>2</sup>	3
H11i1X5T2		6.35/11	450mm	HS Indoor Kit 11kV SC UA 400-630mm <sup>2</sup>	3
3 CORE INDOOR TERMINATION KITS UNARMOURED 11kV					
H11i3X2T2		6.35/11	450mm	HS Indoor Kit 11kV 3C UA 35-95mm <sup>2</sup>	3
H11i3X3T2		6.35/11	450mm	HS Indoor Kit 11kV 3C UA 95-240mm <sup>2</sup>	3
H11i3X4T2		6.35/11	450mm	HS Indoor Kit 11kV 3C UA 185-400mm <sup>2</sup>	3
H11i3X5T2		6.35/11	450mm	HS Indoor Kit 11kV 3C UA 400-630mm <sup>2</sup>	3
3 CORE INDOOR TERMINATION KITS ARMOURED 11kV					
H11i3AX2T2		6.35/11	450mm	HS Indoor Kit 11kV 3C Arm 35-95mm <sup>2</sup>	3
H11i3AX3T2		6.35/11	450mm	HS Indoor Kit 11kV 3C Arm 95-240mm <sup>2</sup>	3
H11i3AX4T2		6.35/11	450mm	HS Indoor Kit 11kV 3C Arm 185-400mm <sup>2</sup>	3
H11i3AX5T2		6.35/11	450mm	HS Indoor Kit 11kV 3C Arm 400-630mm <sup>2</sup>	3
OUTDOOR TERMINATIONS					
SINGLE CORE OUTDOOR TERMINATION KITS UNARMOURED 11kV					
H11O1X2T3		6.35/11	650mm	HS Outdoor Kit 11kV SC UA 35-95mm <sup>2</sup>	3
H11O1X3T3		6.35/11	650mm	HS Outdoor Kit 11kV SC UA 95-240mm <sup>2</sup>	3
H11O1X4T3		6.35/11	650mm	HS Outdoor Kit 11kV SC UA 185-400mm <sup>2</sup>	3
H11O1X5T3		6.35/11	650mm	HS Outdoor Kit 11kV SC UA 400-630mm <sup>2</sup>	3
3 CORE OUTDOOR TERMINATION KITS UNARMOURED 11kV					
H11O3X2T3		6.35/11	650mm	HS Outdoor Kit 11kV 3C UA 35-95mm <sup>2</sup>	3
H11O3X3T3		6.35/11	650mm	HS Outdoor Kit 11kV 3C UA 95-240mm <sup>2</sup>	3
H11O3X4T3		6.35/11	650mm	HS Outdoor Kit 11kV 3C UA 185-400mm <sup>2</sup>	3
H11O3X5T3		6.35/11	650mm	HS Outdoor Kit 11kV 3C UA 400-630mm <sup>2</sup>	3
3 CORE OUTDOOR TERMINATION KITS ARMOURED 11kV					
H11O3AX2T3		6.35/11	650mm	HS Outdoor Kit 11kV 3C Arm 35-95mm <sup>2</sup>	3
H11O3AX3T3		6.35/11	650mm	HS Outdoor Kit 11kV 3C Arm 95-240mm <sup>2</sup>	3
H11O3AX4T3		6.35/11	650mm	HS Outdoor Kit 11kV 3C Arm 185-400mm <sup>2</sup>	3
H11O3AX5T3		6.35/11	650mm	HS Outdoor Kit 11kV 3C Arm 400-630mm <sup>2</sup>	3

Special design terminations available upon request. All Terminations supplied in 3 Phase kit.