

## LV JOINTS

### UP TO 1 kV

- **STRAIGHT THROUGH JOINT CTJL  
CAST RESIN JOINT WITH TRANSPARENT  
PLASTIC CASING**
- **BRANCH JOINT CTBL  
CAST RESIN JOINT WITH TRANSPARENT  
PLASTIC CASING**

Technical information subject to change  
without notice

**STRAIGHT THROUGH JOINT - CTJL**

Cast resin joint with transparent plastic casing

**castfit**<sup>®</sup>**APPLICATION****Utilisation**

- joining cables of different specifications and/or conductor sizes.
- joining cables laid underground, or in tunnels, on racks, or vertical (J0 to J4).
- may be directly buried or submerged.
- may be used in special environmental conditions such as oil industry or mining, with adaptations as necessary.

**Cables**

- stranded or solid conductors, of copper or aluminium.
- single or multi-core, including concentric neutral.
- polymeric insulation (PVC, XLPE, EPR) or paper insulation (MIND type).
- non-armoured or armoured with either tape or wire
- insulation voltage  $U_m$  1 kV.
- range of conductor sizes : 4 x 2.5 mm<sup>2</sup> to 4 x 300 mm<sup>2</sup>.

**STANDARDS**

Generally meets the requirements of C81 - HD 623 - C33-002 - CEI20/33.

**QUALITY ASSURANCE**

The Company has been assessed and found to conform to the requirements of the standard ISO 9001 - EN 29001.

**PACKING**

Supplied as a kit for one joint containing all the necessary components except the ferrules (supplied on request).

*See table for shipping weight and volume (approx.) of kit.*

**INSTALLATION FEATURES**

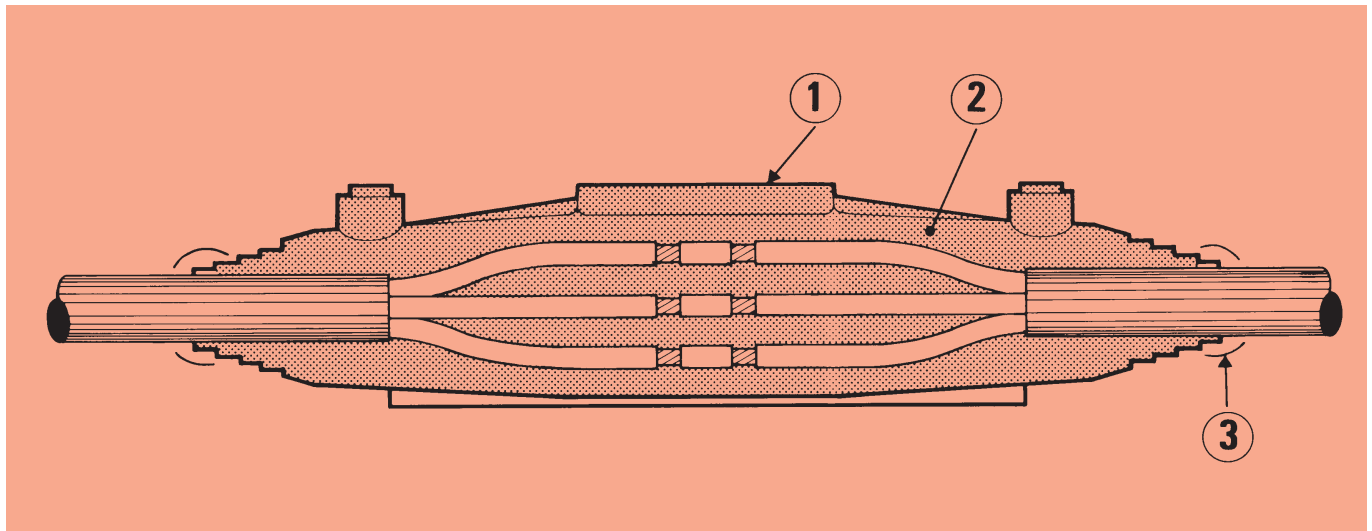
- no need for special tools or heating.
- filling resin cures at ambient temperatures.
- energizing of cable may take place, on average, 30 minutes after filling.
- immediate energizing is also possible following special procedures.

**OTHER APPLICATIONS**

- also suitable for telephone and signal cables with special resin.
- adaptation of J3, J4, J15 and J17 joints with EPR self-amalgamating tape for cables up to 6 kV (CTJM).

## STRAIGHT THROUGH JOINT - CTJL

Cast resin joint with transparent plastic casing



### DESCRIPTION

- ① **Casing**  
Casing is made of two shells of transparent thermoplastic material which are snapped together (J0 to J4) or fastened by slides (J15 and J17).
- ② **Insulating material**  
Two-part synthetic resin, supplied in pre-dosed bags (J0 to J4) or in cans (J15 and J17).
- ③ **Sealing**  
Self-amalgamating tape or putty.

### SELECTION GUIDE

1. Select the kit model from the table on the basis of diameters and sizes of cables to be jointed.
2. When armour bonding is required, add PA to the kit reference.

### EXAMPLE OF ORDER

CTJL-J4-PA

Dimensions mm	Kit model	Cable overall dia. mm		Maximum sizes of cables (for guidance only) mm <sup>2</sup>		Approx. shipping weight and volume of kit	
		Min.	Max.	non- armoured	armoured	kg	m <sup>3</sup>
	J0	8	18	4 x 6	4 x 4	0.40	0.0015
	J1	12	26	4 x 16	4 x 16	0.45	0.0025
	J2	14	32	4 x 25	4 x 25	0.75	0.0035
	J3	23	39	4 x 70	4 x 50	1.35	0.005
	J4	28	50	4 x 95	4 x 95	1.90	0.008
	J15	38	58	4 x 185	4 x 150	7.7	0.04
	J17	62	86	4 x 300	4 x 300	17.0	0.07

**IMPORTANT** : before using this product, you must check if it is suitable for your intended application. You assume all risks and liabilities associated with such use. If any doubt, please consult us.

**BRANCH JOINT - CTBL**

Cast resin branch joint with transparent plastic casing

**castfit**<sup>®</sup>**APPLICATION****Utilisation**

- suitable for cables of different specifications.
- may be directly buried or submerged.
- may be used in special environmental conditions such as oil industry or mining, with adaptations as necessary.

**Cables**

- stranded or solid conductors, of copper or aluminium.
- single or multi-core, including concentric neutral.
- polymeric insulation (PVC, XLPE, EPR) or paper insulation (MIND type).
- non-armoured or armoured with either tape or wire.
- insulation voltage  $U_m$  1 kV.
- range of conductor sizes : main : 4 x 4 to 4 x 185 mm<sup>2</sup>  
branch : 4 x 4 to 4 x 150 mm<sup>2</sup>

**STANDARDS**

Generally meets the requirements of C81 - HD 623 - C 33-002 - CEI 20/33.

**QUALITY ASSURANCE**

The Company has been assessed and found to conform to the requirements of the standard ISO 9001 - EN 29001.

**PACKING**

Supplied as a kit for one joint containing all the necessary components except the connectors (supplied on request).

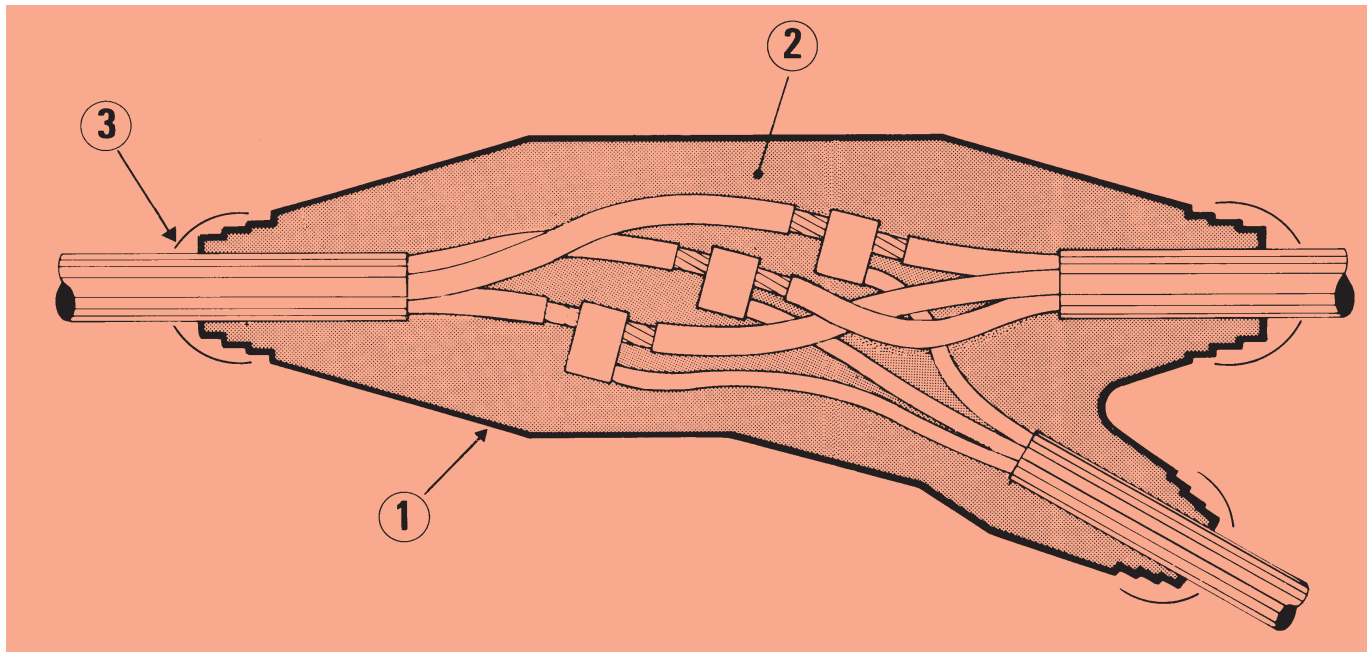
*See table for shipping weight and volume (approx.) of kit.*

**INSTALLATION FEATURES**

- no need for special tools or heating.
- filling resin cures at ambient temperatures.
- energizing of cable may take place, on average, 30 minutes after filling.
- immediate energizing is also possible following special procedures.

## BRANCH JOINT - CTBL

Cast resin branch joint with transparent plastic casing



### DESCRIPTION

- ① **Casing**  
Casing is made of two shells of transparent thermoplastic material which are fastened by slides.
- ② **Insulating material**  
Two-part synthetic resin, supplied in pre-dosed bags (D1 and D2) or in cans (D4, D14 and D16).
- ③ **Sealing**  
Self-amalgamating tape or putty.

### SELECTION GUIDE

1. Select the kit model from the table on the basis of diameters and sizes of cables to be branched off.
2. When armour bonding is required, add PA to the kit reference.

### EXAMPLE OF ORDER

Branch joint for main cable NYY type, 3 x 150/70 mm<sup>2</sup>, overall diameter 52 mm, branch cable NYY type, 4 x 35 mm<sup>2</sup>, overall diameter 32 mm.  
Or simply **CTBL-D16**

Dimensions mm	Kit model	Cable overall dia. mm		Maximum sizes of cables (for guidance only) mm <sup>2</sup>		Approx. shipping weight and volume of kit	
		Min.	Max.	Main Branch non- armoured	armoured	kg	m <sup>3</sup>
	D1	M	9 24	4 x 6	4 x 6	0.50	0.0025
		B	9 24	4 x 4	4 x 4		
	D2	M	12 24	4 x 16	4 x 10	1.5	0.006
		B	12 24	4 x 16	4 x 10		
	D4	M	20 36	4 x 50	4 x 50	2.6	0.018
		B	18 28	4 x 25	4 x 25		
	D14	M	28 50	4 x 95	4 x 95	4.0	0.02
		B	20 33	4 x 35	4 x 35		
	D16	M	28 60	4 x 185	4 x 150	7.8	0.04
		B	18 45	4 x 95	4 x 70		

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