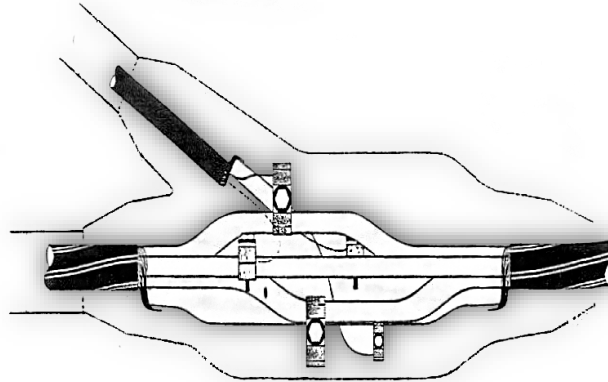


# Cast Resin Low Voltage Cable Joint Kits

## Product Brochure

Joining of single core DC feeder to anode cables for Cathodic Protection of pipelines, jetties, tanks and buried structures.



### Benefits

- ⇒ Excellent electrical insulator!
- ⇒ Transparent high visibility moulds!
- ⇒ Excellent adhesive qualities!
- ⇒ 3<sup>rd</sup> Party performance tested to DIN VDE 0278-623!
- ⇒ Quick setting properties!
- ⇒ Low exotherm / ambient temperature cure!
- ⇒ Minimal shrinkage!

### Features of the Cast Resin Low Voltage Cable Joint Kit

- ⇒ Each Polyurethane or Epoxy resin pack contains correctly proportioned resin components separated by a divider. (Specify Polyurethane or Epoxy resin at time of order placing.)
- ⇒ The bag features a dual layer system. The outer aluminium packaging provides environmental protection of the contents, giving a shelf life of up to 3 years.
- ⇒ For smaller packs up to 26.5 ounces, an easy-open “pull-apart” seal is used. For larger packs, remove the divider before mixing the 2 parts.
- ⇒ The inner transparent bag provides visible reference for the user when mixing.
- ⇒ Odour free.
- ⇒ Very low vapour pressure.



- ⇒ Printed instructions on box or inside box.
- ⇒ Fully detailed safety data sheets available on request.
- ⇒ Quick reliable - **No Heat Required**
- ⇒ Easy to assemble
- ⇒ Sufficient resin provided, no need to top up
- ⇒ 3 Year shelf life
- ⇒ Strong transparent shells - snap together - no resin leakage
- ⇒ Designed for armoured cables to afford plenty of room to work

#### **Suitable for almost any Cable including;**

- ⇒ Aluminium or copper conductors
- ⇒ Stranded or solid conductors
- ⇒ Flexible or normal stranding
- ⇒ PVC, XLPE, PILC or EPR insulated
- ⇒ PVC sheathed single wire armoured
- ⇒ Aluminium strip armoured
- ⇒ Single or multi-core

#### **Technical Properties**

<b>Polyurethane Resin</b>			
	Resin	Hardener	Mixed
Colour	Beige	Dark Brown	Brown
Specific Gravity (g/cm <sup>3</sup> )	1.05	1.23	1.15
Viscosity (Poise) 25°	1430	2300	1860
Gel Time	20 - 30 minutes 200g mass @ 25°		
Full Cure Time	24 hours @ 25° C - 80%. Full secure after 72 hours.		
Shelf Life	3 years when stored between 10 - 25° C. Packaging must remain intact.		
Peak Exotherm	Maximum exotherm (100 gram) 56° C		
Thermal Conductivity	0.32w/mk		
Dielectric Constant	50 c/s @ 25° C 3.2		
Volume Resistivity	Ohm - cm @ 25° C 2 x 10		
Shore Hardness	D 58		
Dielectric Strength (Solid)	21 KV / MM		
Operating Temperature	-20° C to +85° C provided resin is mixed thoroughly.		



## L.V. Branch Joints

Product Code	Diameter Main Cable		Diameter Branch		Length		Width		3M Equivalent
	mm <sup>2</sup>	inch <sup>2</sup>	mm <sup>2</sup>	inch <sup>2</sup>	mm	inch	mm	inch	
Y0	6 - 16	1/4 - 3/4	6 - 16	1/4 - 5/8	180	7	55	2 2/16	
Y1	10 - 22	3/8 - 3/4	10 - 22	1/2 - 7/8	220	8 5/8	76	2 7/8	90-B1
Y2	10 - 32	1/2 - 1 1/4	10 - 22	1/2 - 1 1/4	282	11 1/8	100	3 7/8	91-C11
Y2.5	20 - 45	3/4 - 1 3/4	20 - 38	3/4 - 1 1/2	310	12 1/4	112	4 1/2	91-C12
Y3	20 - 52	3/4 - 2	20 - 45	3/4 - 1 6/8	380	14 7/8	134	5 1/4	91-C13



### Polyurethane Resin

- ⇒ Flame Retardant
- ⇒ Hydrocarbon resistant
- ⇒ **Excellent** resistance to Petrol and Diesel
- ⇒ Compatible with hazardous areas
- ⇒ Never rigid

### Epoxy Resin

- ⇒ Rigid resin
- ⇒ Non foaming
- ⇒ Hydrophobic
- ⇒ For use in water laden soils

**Cathtect**  
U.S.A. INC.  
Cathodic Protection Products

[www.cathtectusa.com](http://www.cathtectusa.com)

## Cable Joining Kit Dimensions

Product Code	Mould Length		Cable Diameter		
	mm	inch	mm	inch	
MX1	185	7 1/4	6 -15	1/4	- 1/2
MX2	270	10 1/2	15 - 23	1/2	- 1
MX3	310	12 1/4	23 - 37	1	- 1 1/2
MT1	240	9 1/2	8 - 25	1/4	- 1
MT2	275	10 3/4	16 - 32	3/4	- 1 1/4
MT2.5	310	12 1/4	22 - 38	3/4	- 1 1/2
MT3	355	14	24 - 48	1	- 2
MT4	400	15 3/4	30 - 50	1 1/4	- 2
MT4.5	436	17	28 - 56	1	- 2 1/4
MT5	550	21 1/2	37 - 68	1 1/2	- 3/4
MT5.5	650	25 1/2	40 - 82	1 1/2	- 3 1/4
MT6	810	31 3/4	50 - 86	2	- 3 1/2



***Cathtect***  
**U.S.A. INC.**  
**Cathodic Protection Products**

[www.cathtectusa.com](http://www.cathtectusa.com)