

# ITALCO

## M.V. Resin injected straight through joints

(Type GRS)  
Insulation voltage  
up to 36 kV

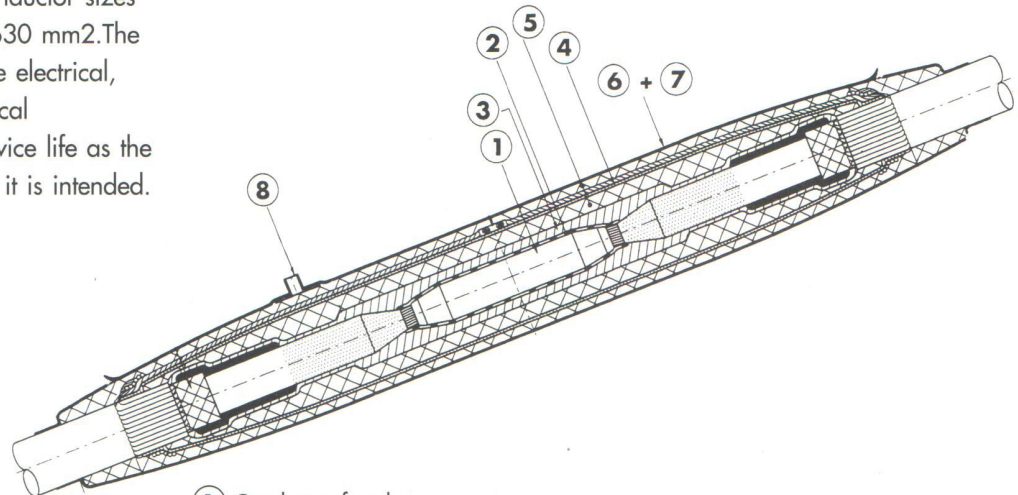
### Injected resin joint for single and three core XLPE insulated cables

#### Applications

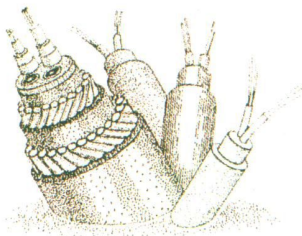
Joining Cu or Al, armoured or unarmoured polymeric insulated cables of different conductor sizes ranging from 50 to 630 mm<sup>2</sup>. The joint assures the same electrical, thermal and mechanical performance and service life as the XLPE cable for which it is intended.

#### Standards

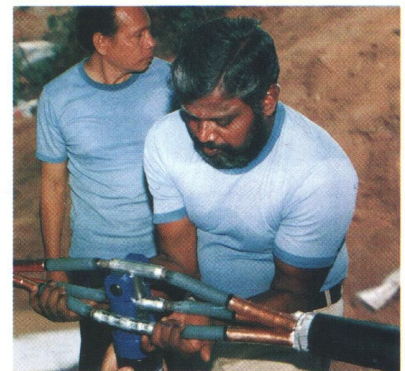
Meets the requirements of CEI 20/24



This resin pressure splice is suitable for use in air, buried in earth at 1 to 2 m. depth intermittently or continuously submerged in water and also in special environmental conditions e.g. oil refinery



- ① Conductor ferrule
- ② Semi-conductive tape (to limit electrical stress)
- ③ Self-fusing rubber tape (as primary electrical insulation)
- ④ Shielding tape (to restore full current carrying capacity)
- ⑤ Spacer tape (to provide insulation and form a protective covering)
- ⑥ Transparent envelope tape (to hold the liquid resin)
- ⑦ Restricting tape (to prevent expansion of the envelope)
- ⑧ Injection valve.



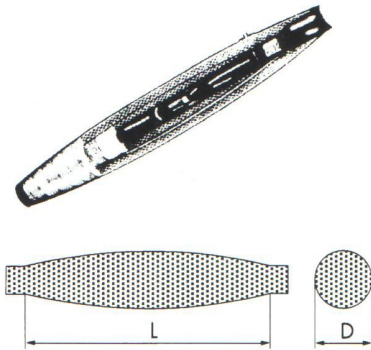
ALCATEL

CAVI



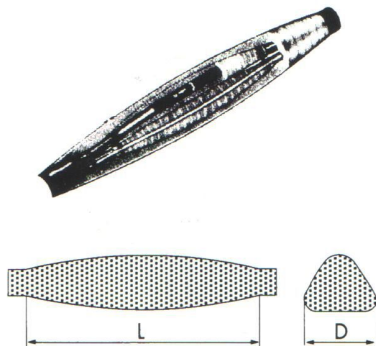
## Selection chart

### Single core joint



System Max voltage	Nominal area of conductor (mm <sup>2</sup> )	Reference	Approx Dimensions (mm)	
			L	D
12 kV	25÷ 95	12 GRS 1. 95	560	55
	120÷150	12 GRS 1.150	590	60
	185÷300	12 GRS 1.300	600	70
	400÷630	12 GRS 1.630	620	80
24 kV	25÷ 50	24 GRS 1. 50	550	60
	70÷ 95	24 GRS 1. 95	590	70
	120÷150	24 GRS 1.150	610	75
	185÷300	24 GRS 1.300	630	80
400÷630	24 GRS 1.630	700	85	
36 kV	25÷150	36 GRS 1.150	720	80
	185÷240	36 GRS 1.240	740	85
	300÷630	36 GRS 1.630	780	95

### Three core joint



System Max voltage	Nominal area of conductor (mm <sup>2</sup> )	Reference	Approx Dimensions (mm)	
			L	D
12 kV	25÷ 50	12 GRS 3. 50	630	90
	70÷ 95	12 GRS 3. 95	660	100
	120÷150	12 GRS 3.150	700	110
	185÷240	12 GRS 3.240	780	120
	300	12 GRS 3.300	820	130
24 kV	25÷ 50	24 GRS 3. 50	730	100
	70÷ 95	24 GRS 3. 95	760	115
	120÷150	24 GRS 3.150	800	120
	185÷240	24 GRS 3.240	840	130
	300	24 GRS 3.300	860	140
36 kV	70÷ 95	36 GRS 3. 95	850	125
	120÷150	36 GRS 3.150	900	130
	185÷300	36 GRS 3.300	950	150

# ITALCO

V.le Europa 40 • 20093 Cologno Monzese - Milano (Italy)  
Tel. 02/2518.1 • Telefax 02/27302769