



**CABLE STRUCTURE**

- Conductor** : Compact concentric stranded uncoated annealed Copper conductor  
Single-core : Sizes 400 mm<sup>2</sup> up to 800 mm<sup>2</sup>
- Insulation** : Cross-linked polyethylene (XLPE)
- Core identification**  
Single-core : Natural (Translucent)
- Sheath** : Polyethylene (PE)

**TECHNICAL DATA**

- Classification** : Maximum conductor temperature 90°C
- Testing voltage** : 90,000 Volts
- Reference standard** : TIS 2202, TIS 2427  
(IEC 60840, IEC60228)

**APPLICATION**

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Nominal cross sectional area	Number of wires minimum	Conductor diameter approx.	Conductor shield thickness nominal	Insulation thickness nominal	Insulation shield thickness nominal	Copper wire area nominal	sheath thickness nominal	Overall diameter approx.	Conductor resistance at 20°C maximum	Cable weight approx.	Standard Length
1	400/95	53	23.5	1.5	11.0	1.5	95	3.1	66.0	0.0470	7,000	300/D
	500/95	53	26.7	1.5	11.0	1.5	95	3.2	69.0	0.0366	8,000	300/D
	630/120	53	30.3	1.5	11.0	1.5	120	3.4	74.0	0.0283	10,000	300/D
	800/120	53	34.1	1.5	11.0	1.5	120	3.5	78.0	0.0221	11,500	300/D

D : Packing in drum

Number of core	Nominal cross sectional area	Continuous current rating in ground at 30°C maximum 30°C			A.C. Resistance			Inductance			Reactance			Impedance		
		Spaced	Touching	Trefoil	R			L			XL			Z		
					(Ω/km)			(mH/km)			(Ω/km)			(Ω/km)		
1	400/95	873	871	611	0.0613	0.0616	0.0617	0.5835	0.4449	0.3967	0.1833	0.1398	0.1252	0.1933	0.1527	0.1396
	500/95	1001	997	695	0.0485	0.0488	0.0490	0.5679	0.4293	0.3831	0.1784	0.1349	0.1203	0.1849	0.1434	0.1300
	630/120	1145	1138	788	0.0384	0.0388	0.0392	0.5543	0.4156	0.3694	0.1741	0.1306	0.1161	0.1783	0.1362	0.1225
	800/120	1295	1282	881	0.0311	0.0316	0.0321	0.5411	0.4025	0.3563	0.1700	0.1264	0.1119	0.1728	0.1303	0.1164

**Remark :** Thermal resistivity of soil 1.2 K.m/W or °C.m/W

Deep of laying (For cable laid direct in ground) 0.8 m