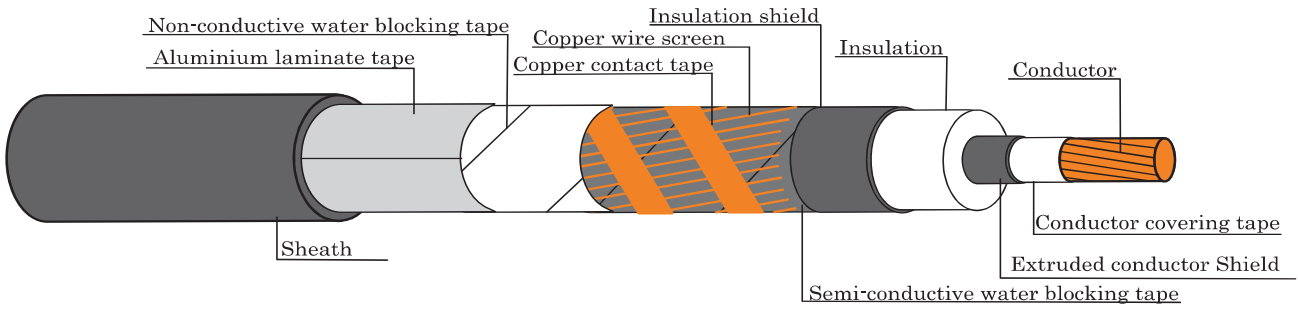


115 kV 90°C CROSS LINKED POLYETHYLENE INSULATED WITH COPPER WIRE SCREEN AND POLYETHYLENE SHEATH POWER CABLE

TIS 2202-2547 (IEC 60840)



CABLE STRUCTURE

- Conductor** : Compacted round stranded annealed copper
- Conductor shield** : Semi conductive tape with extruded Semi-conductive cross-linked polyethylene compound
- Insulation** : Cross-linked polyethylene (XLPE)
- Insulation shield** : Semi-conductive tape cross-linked polyethylene compound
- Water blocking tape** : Semi-conductive water blocking tape
- Metallic screen** : Copper wire screen with copper contact tape
- Synthetic water blocking and cushioning tape** : Non-conductive water blocking tape
- Radial water barrier** : Aluminium laminate tape
- Sheath** : Black polyethylene (PE/ST7)

TECHNICAL DATA

- Classification** : Maximum conductor temperature 90°C
- Testing voltage** : 160,000 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 (mm ²)	Number of wires minimum (No.)	Conductor diameter approx. (mm)	Conductor shield thickness nominal (mm)	Insulation thickness nominal (mm)	Insulation shield thickness nominal (mm)	Copper wire area nominal (mm ²)	sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Cable weight approx. (kg/km)	Standard Length (m)
	500/95	53	26.7	1.5	16.0	1.5	95	3.6	80	0.0366	9,000	300/D
	630/120	53	30.3	1.5	16.0	1.5	120	3.7	84	0.0283	11,000	300/D
	800/120	53	34.1	1.5	16.0	1.5	120	3.9	88	0.0221	13,000	300/D

D : Packing in drum

Number of core	Nominal cross sectional area	Continuous current rating in ground at 30°C maximum			A.C. Resistance			Inductance			Reactance			Impedance		
		Spaced	Touching	Trefoil	R (Ω/km)			L (mH/km)			XL (Ω/km)			Z (Ω/km)		
					Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil
		1	400/95	850	849	607	0.0613	0.0615	0.0616	0.6128	0.4741	0.4279	0.1925	0.1490	0.1344	0.2020
	500/95	975	972	691	0.0485	0.0487	0.0489	0.5958	0.4572	0.4110	0.1872	0.1436	0.1291	0.1934	0.1517	0.1381
	630/120	1117	1112	785	0.0384	0.0387	0.0390	0.5805	0.4418	0.3956	0.1824	0.1388	0.1243	0.1864	0.1441	0.1302
	800/120	1264	1254	879	0.0310	0.0315	0.0318	0.5665	0.4279	0.3817	0.1780	0.1344	0.1199	0.1807	0.1381	0.1241

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

