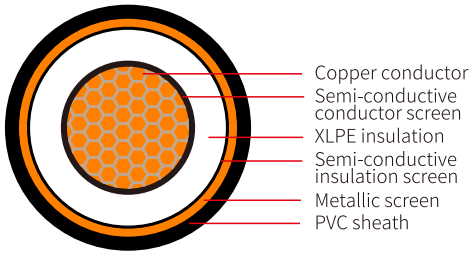
CU/XLPE/SCR/PVC

Single core XLPE insulated cables with copper conductor



Standard: IEC 60502-2

- **Rated voltage**: 18/30(36)kV or 19/33(36)kV
- **Test voltage**: 63kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of insulation**: Natural
- **Colour of sheath**: Black
- **Min. bending radius**: 20 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and to flame propagation according to IEC 60332.

Rated Voltage: 18/30(36)kV or 19/33(36)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of conductor
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
1x50	8.1	8.0	33.6	1326.6	0.387	0.494	7.2	0.71	0.142	0.461	3.4
1x70	9.8	8.0	35.5	1600.2	0.268	0.342	10.0	0.71	0.158	0.434	4.8
1x95	11.4	8.0	37.1	1903.9	0.193	0.247	13.6	0.71	0.173	0.414	6.5
1x120	12.9	8.0	38.8	2204.5	0.153	0.196	17.2	0.71	0.186	0.398	8.2
1x150	14.4	8.0	40.3	2517.2	0.124	0.159	21.5	0.71	0.200	0.384	10.2
1x185	16.0	8.0	42.1	2932.8	0.0991	0.128	26.5	0.71	0.214	0.372	12.6
1x240	18.4	8.0	44.6	3551.3	0.0754	0.0977	34.3	0.71	0.236	0.356	16.3
1x300	20.6	8.0	47.1	4214.4	0.0601	0.0786	42.9	0.71	0.256	0.344	20.4
1x400	23.4	8.0	50.3	5110.4	0.0470	0.0626	57.2	0.89	0.280	0.332	27.2
1x500	26.2	8.0	53.7	6257.1	0.0366	0.0502	71.5	0.89	0.307	0.322	34.0
1x630	29.8	8.0	57.6	7741.9	0.0283	0.0406	90.1	0.89	0.339	0.311	42.8

Note "*" : The value is calculated base on copper tape.