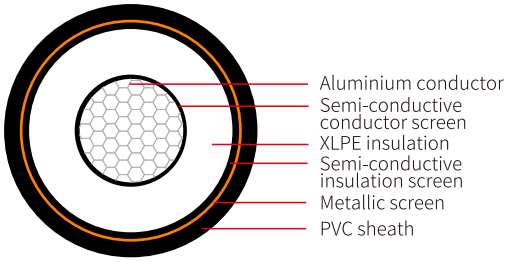
AL/XLPE/SCR/PVC

Single core XLPE insulated cables with aluminium conductor



Standard: IEC 60502-2

- **Rated voltage**: 8.7/15(17.5)kV
- **Test voltage**: 30.5kV/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 flame propagation according to IEC 60332.

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
1x25	6.0	4.5	23.9	535.8	1.20	1.54	2.4	0.53	0.177	0.448	1.0
1x35	7.0	4.5	24.9	592.9	0.868	1.11	3.3	0.53	0.193	0.426	1.4
1x50	8.1	4.5	26.2	671.2	0.641	0.822	4.7	0.71	0.210	0.408	2.0
1x70	9.8	4.5	27.9	781.2	0.443	0.568	6.6	0.71	0.238	0.383	2.7
1x95	11.4	4.5	29.7	914.5	0.320	0.411	9.0	0.71	0.263	0.366	3.7
1x120	12.9	4.5	31.2	1029.4	0.253	0.325	11.3	0.71	0.287	0.352	4.7
1x150	14.4	4.5	32.9	1164.1	0.206	0.265	14.2	0.71	0.310	0.341	5.9
1x185	16.0	4.5	34.5	1316.1	0.164	0.211	17.5	0.71	0.335	0.330	7.2
1x240	18.4	4.5	37.1	1563.0	0.125	0.161	22.7	0.71	0.373	0.318	9.4
1x300	20.6	4.5	39.5	1813.3	0.100	0.130	28.3	0.71	0.407	0.308	11.7
1x400	23.4	4.5	42.5	2154.3	0.0778	0.102	37.8	0.71	0.451	0.298	15.6
1x500	26.2	4.5	45.9	2582.4	0.0605	0.0802	47.2	0.71	0.498	0.291	19.5
1x630	29.8	4.5	49.9	3113.7	0.0469	0.0637	59.5	0.89	0.554	0.282	24.6

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