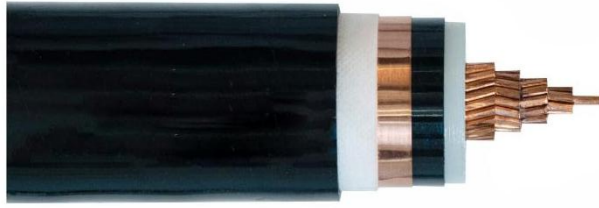


Medium-Voltage Power Cables



8.7/15 kV XLPE Insulated, Single Core, Cables with Copper Conductor (Copper Tape Screen)

Standards: IEC 60502-2, VDE 0276-620

Technical Data

Max. operating temperature : 90 °C

Max. short circuit temperature : 250 °C (max. 5 sec.)

Rated voltage : 8.7/15 kV

Min. bending radius : 15 x D (D = Cable outer diameter)

Application

These are cables with low dielectric losses used in energy networks with sudden load changes. Laid in residential or industrial areas, underground or in ducts.

Construction

- ① Stranded copper conductors
- ② Inner semi-conductive layer
- ③ XLPE insulation
- ④ Outer semi conductive layer
- ⑤ Semi-conductive tape
- ⑥ Copper tape screen
- ⑦ Polyester tape
- ⑧ PVC outer jacket

DIMENSION AND WEIGHTS			ELECTRICAL PROPERTIES									
Nominal Cross Section	Overall Diameter (approx)	Net Weight (approx)	Delivery Length	DC Conductor Resistance at 20°C Max	DC Conductor Resistance at 90°C Max	Operation Inductance		Operational Capacitance	Current Carrying Capacity			
						Flat	Trefoil		In ground at 20°C		In air at 30°C	
									Flat	Trefoil	Flat	Trefoil
mm ²	mm	kg/km	m	ohm/km	ohm/km	mH/km	mH/km	µF/km	A	A	A	A
1x35/16	25,5	940	1000	0,524	0,6707	0,666	0,401	0,193	212	187	231	195
1x50/16	27	1100	1000	0,387	0,4954	0,640	0,383	0,215	249	220	277	234
1x70/16	28,5	1350	1000	0,268	0,3430	0,609	0,362	0,245	303	269	345	292
1x95/16	30	1600	1000	0,193	0,2470	0,585	0,346	0,273	358	321	418	354
1x120/16	32	1900	1000	0,153	0,1958	0,567	0,336	0,297	404	364	481	407
1x150/25	33,5	2260	1000	0,124	0,1587	0,549	0,325	0,323	441	405	537	460
1x185/25	35,5	2660	1000	0,0991	0,1268	0,534	0,317	0,351	493	457	612	527
1x240/25	38	3220	1000	0,0754	0,0965	0,514	0,307	0,389	563	528	716	621
1x300/25	40,5	3820	1000	0,0601	0,0769	0,497	0,298	0,426	626	593	811	709
1x400/35	44	4980	1000	0,0470	0,0602	0,477	0,289	0,479	676	665	901	815
1x500/35	47	5980	500	0,0366	0,0468	0,461	0,282	0,525	743	739	1006	921
1x630/35	50,5	7230	500	0,0283	0,0362	0,445	0,275	0,581	820	818	1130	1045

Note : Current carrying capacities are valid under the following conditions;

In ground : 20 °C, 70 cm depth of lay, soil-thermal resistivity 1 K.m/W, load factor 0.7

In air : 30 °C, load factor 1.0

Number of system: 1