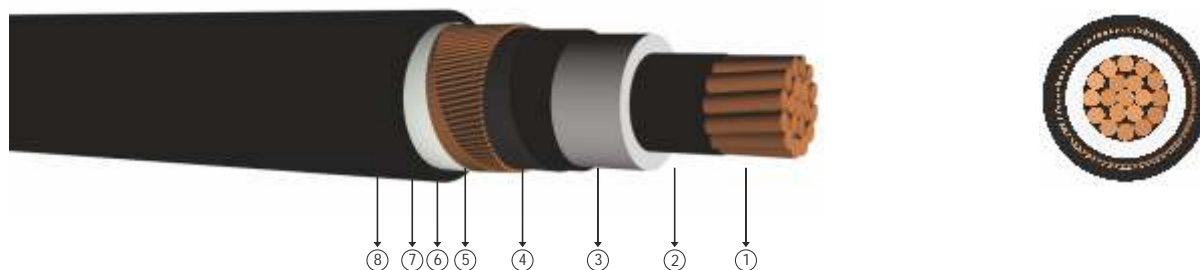


18/30 kV XLPE insulated, single core cables with copper conductor



Code: N2XS2Y

Standards: VDE 0276 - 620

Technical Data

Max. operating temperature : 90 °C
 Max. short circuit temperature : 250 °C (max. 5 sec.)
 Rated voltage : 18/30 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 ③ XLPE insulation ⑤ Semi conductive tape ⑦ Polyester tape
- ② Inner semi conductive layer ④ Outer semi conductive layer ⑥ Copper screen ⑧ PE 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		Operation Capacitance	Current Carrying Capacity (A)			
mm ²	mm	kg/km	m	ohm/km	ohm/km	*** mH/km	** mH/km	µF/km	In ground at 20 °C		In air at 30 °C	
									***	**	***	**
1x50/16	33,2	1236	1000	0,387	0,4954	0,662	0,453	0,135	251	226	279	241
1x70/16	35,0	1480	1000	0,268	0,3430	0,631	0,429	0,151	306	276	348	299
1x95/16	36,5	1755	1000	0,193	0,2470	0,607	0,410	0,166	363	329	421	362
1x120/16	38,0	2022	1000	0,153	0,1958	0,588	0,397	0,180	410	373	483	416
1x150/25	39,2	2391	1000	0,124	0,1587	0,570	0,363	0,194	449	415	540	469
1x185/25	41,0	2762	1000	0,0991	0,1268	0,554	0,372	0,208	503	468	615	536
1x240/25	43,5	3360	1000	0,0754	0,0965	0,534	0,359	0,229	576	541	718	630
1x300/25	46,5	4025	1000	0,0601	0,0769	0,517	0,347	0,248	641	608	812	717
1x400/35	49,5	5001	500	0,0470	0,0602	0,495	0,334	0,276	697	684	904	823
1x500/35	52,5	6040	500	0,0366	0,0468	0,479	0,324	0,301	768	762	1011	929
1x630/35	56,0	7414	500	0,0283	0,0362	0,463	0,314	0,330	858	847	1128	1043

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
 *** : Flat formation, clearance between cables; in air = 1 x Cable outer diameter, in ground = 7 cm
 *** : Trefoil formation
 Number of system : 1