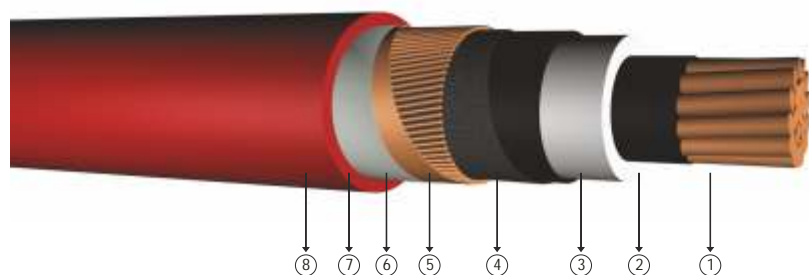


18/30 kV XLPE insulated, single core, cables with copper conductor



Code: N2XSY

R: Stranded Conductor Rigid

Standards: VDE 276-620

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
- ② Inner semi conductive layer
- ③ XLPE insulation
- ④ Outer semi conductive layer
- ⑤ Semi conductive tape
- ⑥ Copper 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 (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	1374	1000	0,387	0,4954	0,655	0,432	0,135	251	226	279	241
1x70/16	35,0	1632	1000	0,268	0,3430	0,624	0,408	0,151	306	276	348	299
1x95/16	36,5	1908	1000	0,193	0,2470	0,600	0,391	0,166	363	329	421	362
1x120/16	38,0	2184	1000	0,153	0,1958	0,581	0,377	0,180	410	373	483	416
1x150/25	39,2	2556	1000	0,124	0,1587	0,564	0,366	0,194	449	415	540	469
1x185/25	41,0	2935	1000	0,0991	0,1268	0,547	0,355	0,208	503	468	615	536
1x240/25	43,5	3545	1000	0,0754	0,0965	0,527	0,342	0,229	576	541	718	630
1x300/25	46,5	4258	1000	0,0601	0,0769	0,510	0,332	0,248	641	608	812	717
1x400/35	49,5	5258	500	0,0470	0,0602	0,489	0,320	0,276	697	684	904	823
1x500/35	52,5	6287	500	0,0366	0,0468	0,473	0,310	0,301	768	762	1011	929
1x630/35	56,0	7654	500	0,0283	0,0362	0,457	0,301	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