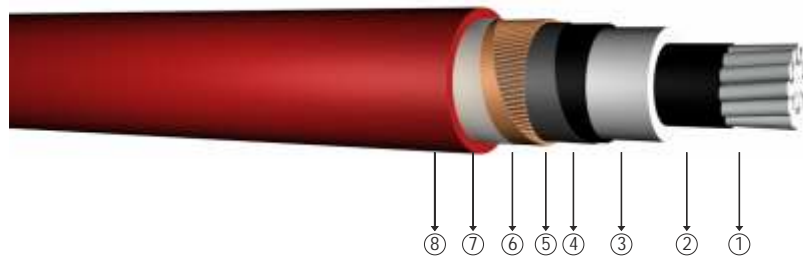


18/30 kV XLPE insulated single core cables with aluminium conductor



Code: NA2XSJ

R: Stranded Conductor Rigid

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 cables have a low dielectric loss, used in indoors and outdoors, in cable ducts, underground, in power or switching stations, local energy distributions, industrial plants, where there is no risk of mechanical damage.

Construction

- ① Stranded aluminium conductor
- 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		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	1088	1000	0,641	0,8205	0,655	0,432	0,135	196	175	217	187
1x70/16	35,0	1225	1000	0,443	0,5670	0,624	0,408	0,151	238	214	270	232
1x95/16	36,4	1337	1000	0,320	0,4096	0,600	0,391	0,166	284	256	328	281
1x120/16	38,0	1473	1000	0,253	0,3238	0,581	0,377	0,180	322	290	378	323
1x150/25	39,2	1668	1000	0,206	0,2637	0,564	0,366	0,194	355	324	425	365
1x185/25	41,0	1838	1000	0,164	0,2099	0,547	0,355	0,208	400	366	485	418
1x240/25	43,5	2087	1000	0,125	0,1600	0,527	0,342	0,229	461	426	572	494
1x300/25	46,5	2433	1000	0,100	0,1280	0,510	0,332	0,248	516	479	649	564
1x400/35	49,5	2889	1000	0,0778	0,1009	0,489	0,320	0,276	572	545	737	654
1x500/35	52,5	3270	1000	0,0605	0,0774	0,473	0,310	0,301	638	614	835	747
1x630/35	56,0	3770	1000	0,0469	0,0600	0,457	0,301	0,330	728	690	950	851

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