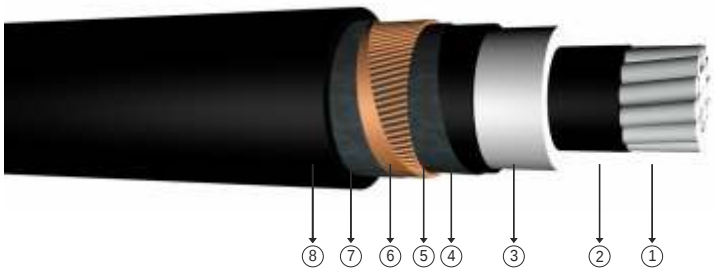


18/30 kVXLPE insulated,
single core cables with aluminium conductor



Code: NA2XS2Y

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 aluminium conductor 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	950	1000	0,641	0,8205	0,660	0,448	0,135	146	175	217	187
1x70/16	35,0	1073	1000	0,443	0,5670	0,629	0,423	0,151	238	214	270	232
1x95/16	36,4	1185	1000	0,320	0,4096	0,605	0,405	0,166	284	256	328	281
1x120/16	38,0	1310	1000	0,253	0,3238	0,586	0,391	0,180	322	290	378	323
1x150/25	39,2	1503	1000	0,206	0,2637	0,568	0,379	0,194	355	324	425	365
1x185/25	41,0	1664	1000	0,164	0,2099	0,552	0,367	0,208	400	366	485	418
1x240/25	43,5	1902	1000	0,125	0,1600	0,532	0,354	0,229	461	426	572	494
1x300/25	46,5	2201	1000	0,100	0,1280	0,515	0,343	0,248	516	479	649	564
1x400/35	49,5	2636	1000	0,0778	0,1009	0,494	0,330	0,276	572	545	737	654
1x500/35	52,5	3023	1000	0,0605	0,0774	0,478	0,320	0,301	638	614	835	747
1x630/35	56,0	3529	1000	0,0469	0,0600	0,461	0,310	0,330	728	690	950	851

Note
In ground : Current carrying capacities are valid under the following conditions;
In air : 20 °C, 70 cm depth of lay, soil-thermal resistivity 1 K.m/W, load factor 0.7
*** : 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