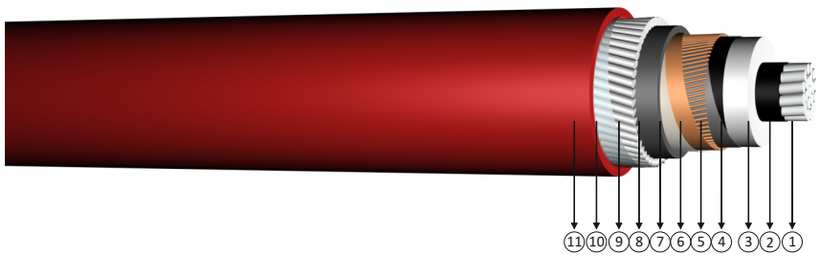
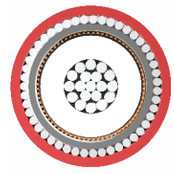
18/30 kV or 19/33 kV XLPE insulated round aluminium wire armoured single core cables with aluminium conductor





Code: NA2XSYR(A)Y, AL/XLPE/CWS/PVC/AWA/PVC

Standards: IEC 60502 - 2, VDE 0276 - 620, BS 6622

Technical Data

Max. operating temperature	: 90 °C
Max. short circuit temperature	: 250 °C (max. 5 sec.)
Rated voltage	: 18/30 kV 19/33 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
2. Inner semi conductive layer
3. XLPE insulation
4. Outer semi conductive layer
5. Semi conductive tape
6. Copper screen
7. Polyester tape
8. Inner sheath
9. Round aluminium wire
10. Polyester tape
11. 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)			
									In ground at 20 °C		In air at 30 °C	
mm²	mm	kg/km	m	ohm/km	ohm/km	*** mH/km	*** mH/km	µF/km	***	***	***	***
1x50/16	39,9	1815	1000	0,6410	0,8205	0,632	0,351	0,135	196	175	217	187
1x70/16	41,8	1990	1000	0,4430	0,5670	0,601	0,332	0,151	238	214	270	202
1x95/16	43,5	2165	1000	0,3200	0,4096	0,577	0,318	0,166	284	256	328	281
1x120/16	46,4	2499	1000	0,2530	0,3238	0,558	0,308	0,180	322	290	378	323
1x150/25	48,0	2769	1000	0,2060	0,2637	0,541	0,299	0,194	355	324	425	365
1x185/25	49,6	2977	1000	0,1640	0,2099	0,525	0,292	0,208	400	366	485	418
1x240/25	52,4	3332	1000	0,1250	0,1600	0,506	0,284	0,229	461	426	572	494
1x300/25	54,6	3640	500	0,1000	0,1280	0,490	0,279	0,248	516	479	649	564
1x400/35	58,0	4235	500	0,0778	0,1009	0,471	0,275	0,276	572	545	737	454
1x500/35	61,2	4748	500	0,0605	0,0774	0,456	0,270	0,301	638	614	835	747
1x630/35	66,0	5480	500	0,0469	0,0600	0,440	0,264	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