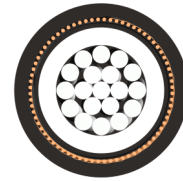
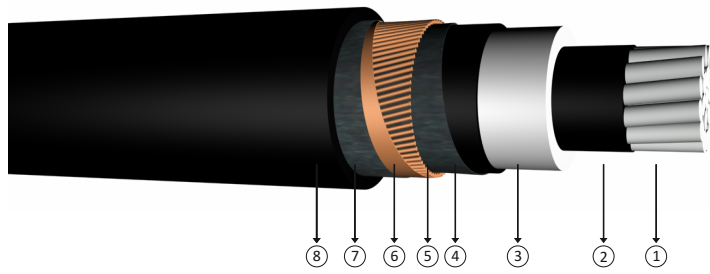


# 18/30 kV or 19/33 kV XLPE insulated, longitudinally sealed, single core cables with aluminium conductor



Code: NA2XS(F)2Y, AL/XLPE/LW/CWS/LW/PE

Standards: IEC 60502 - 2, VDE 0276 - 620, BS 7870 - 4.10

### 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. If the cable gets water inside due to the mechanical damages, swellable tapes prevent the movement of the water inside the cable.

### Construction

- 1 Stranded aluminium conductor
- 2 Inner semi conductive layer
- 3 XLPE insulation
- 4 Outer semi conductive layer
- 5 Semi conductive swelling tape
- 6 Copper screen
- 7 Swellable tape
- 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 <sup>2</sup>	mm	kg/km	m	ohm/km	ohm/km	*** mH/km	** mH/km	µF/km	In ground at 20 °C		In air at 30 °C	
									***	**	***	**
1x35/16	35,0	900	1000	0,868	1,1110	0,686	0,467	0,123	-	-	-	-
1x50/16	36,5	1000	1000	0,641	0,8205	0,660	0,448	0,135	146	175	217	187
1x70/16	38,0	1150	1000	0,443	0,5670	0,629	0,423	0,151	238	214	270	232
1x95/16	40,0	1250	1000	0,320	0,4096	0,605	0,405	0,166	284	256	328	281
1x120/16	42,0	1400	1000	0,253	0,3238	0,586	0,391	0,180	322	290	378	323
1x150/25	43,5	1650	1000	0,206	0,2637	0,568	0,379	0,194	355	324	425	365
1x185/25	45,0	1800	1000	0,164	0,2099	0,552	0,367	0,208	400	366	485	418
1x240/25	48,0	2050	1000	0,125	0,1600	0,532	0,354	0,229	461	426	572	494
1x300/25	50,0	2300	1000	0,100	0,1280	0,515	0,343	0,248	516	479	649	564
1x400/35	53,5	2800	1000	0,0778	0,1009	0,494	0,330	0,276	572	545	737	654
1x500/35	56,5	3200	1000	0,0605	0,0774	0,478	0,320	0,301	638	614	835	747
1x630/35	60,5	3700	1000	0,0469	0,0600	0,461	0,310	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