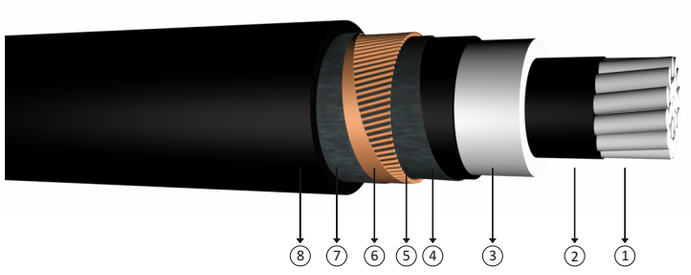
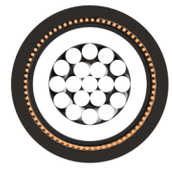
3.6/6 kV XLPE insulated, longitudinally sealed, single core cables with aluminium conductor





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

Standards: IEC 60502 - 2, VDE 0276 - 620

Technical Data

Max. operating temperature	: 90 °C
Max. short circuit temperature	: 250 °C (max. 5 sec.)
Rated voltage	: 3.6/6 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 demages, 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)			
									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	***	***	***	***
1x35/16	24,0	500	1000	0,868	1,1110	0,663	0,391	0,283	-	-	-	-
1x50/16	25,0	550	1000	0,641	0,8205	0,638	0,374	0,318	186	178	233	188
1x70/16	26,5	650	1000	0,443	0,5670	0,607	0,353	0,368	234	217	280	235
1x95/16	28,5	750	1000	0,320	0,4096	0,583	0,338	0,414	287	259	344	286
1x120/16	30,0	850	1000	0,253	0,3238	0,564	0,327	0,455	338	298	392	329
1x150/25	31,5	1050	1000	0,206	0,2637	0,547	0,317	0,499	388	333	441	376
1x185/25	33,5	1200	1000	0,164	0,2099	0,531	0,309	0,544	449	377	510	428
1x240/25	36,5	1400	1000	0,125	0,1600	0,511	0,299	0,587	530	438	587	508
1x300/25	39,0	1600	1000	0,100	0,1280	0,446	0,294	0,603	605	495	682	586
1x400/35	43,0	2100	1000	0,0778	0,1009	0,476	0,287	0,642	678	562	781	676
1x500/35	46,5	2450	500	0,0605	0,0774	0,461	0,282	0,667	762	633	883	772
1x630/35	50,0	2900	500	0,0469	0,0600	0,445	0,275	0,739	858	712	1007	882

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