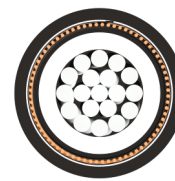
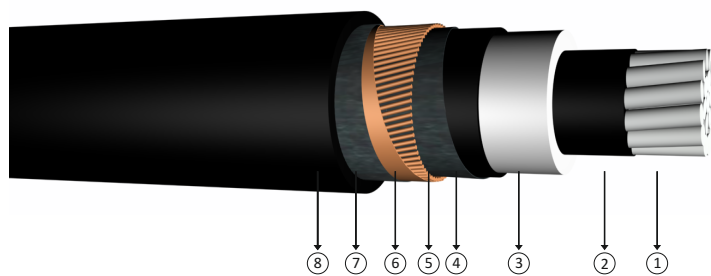




5.8/10 kV (6/10 kV) or 6.35/11 kV XLPE insulated, radial and longitudinally sealed, single core cables with aluminium conductor



Code: NA2XS(FL)2Y, AL/XLPE/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 : 5.8/10 kV (6/10 kV)
 6.35/11 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 coated aluminium foil
- 9 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		
									***	**	***	**	
1x35/16	26,5	600	1000	0,868	1,1110	0,669	0,413	0,223	-	-	-	-	
1x50/16	28,0	700	1000	0,641	0,8205	0,644	0,395	0,248	194	171	215	181	
1x70/16	29,5	800	1000	0,443	0,5670	0,613	0,373	0,285	236	209	269	226	
1x95/16	31,0	900	1000	0,320	0,4096	0,588	0,357	0,320	281	249	327	275	
1x120/16	33,0	1000	1000	0,253	0,3238	0,570	0,346	0,350	318	283	377	317	
1x150/25	34,5	1200	1000	0,206	0,2637	0,552	0,335	0,382	350	316	424	359	
1x185/25	36,5	1350	1000	0,164	0,2099	0,537	0,326	0,415	393	358	485	412	
1x240/25	39,0	1550	1000	0,125	0,1600	0,516	0,314	0,462	453	416	573	489	
1x300/25	41,5	1800	1000	0,100	0,1280	0,500	0,305	0,507	507	469	652	559	
1x400/35	44,5	2250	1000	0,0778	0,1009	0,479	0,295	0,573	559	532	741	651	
1x500/35	48,0	2650	1000	0,0605	0,0774	0,463	0,288	0,631	622	599	838	744	
1x630/35	52,0	3100	1000	0,0469	0,0600	0,447	0,280	0,699	697	679	957	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