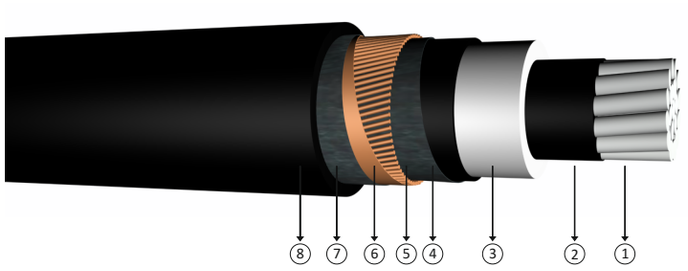
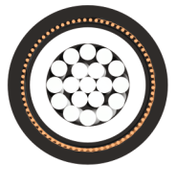
5.8/10 kV (6/10 kV) or 6.35/11 XLPE insulated, single core cables with aluminium conductor





Code: NA2XS2Y, AL/XLPE/CWS/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.

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. 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	25,5	550	1000	0,868	1,1110	0,667	0,406	0,223	-	-	-	-
1x50/16	27,0	600	1000	0,641	0,8205	0,642	0,387	0,248	194	171	215	181
1x70/16	28,5	700	1000	0,443	0,5670	0,611	0,366	0,285	236	209	269	226
1x95/16	30,0	800	1000	0,320	0,4096	0,586	0,350	0,320	281	249	327	275
1x120/16	32,0	900	1000	0,253	0,3238	0,568	0,338	0,350	318	283	377	317
1x150/25	33,5	1150	1000	0,206	0,2637	0,551	0,329	0,382	350	316	424	359
1x185/25	35,5	1250	1000	0,164	0,2099	0,534	0,319	0,415	393	358	485	412
1x240/25	38,0	1450	1000	0,125	0,1600	0,515	0,309	0,462	453	416	573	489
1x300/25	40,5	1700	1000	0,100	0,1280	0,498	0,301	0,507	507	469	652	559
1x400/35	43,5	2150	1000	0,0778	0,1009	0,478	0,291	0,573	559	532	741	651
1x500/35	47,0	2500	1000	0,0605	0,0774	0,462	0,284	0,631	622	599	838	744
1x630/35	50,5	2950	1000	0,0469	0,0600	0,446	0,276	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