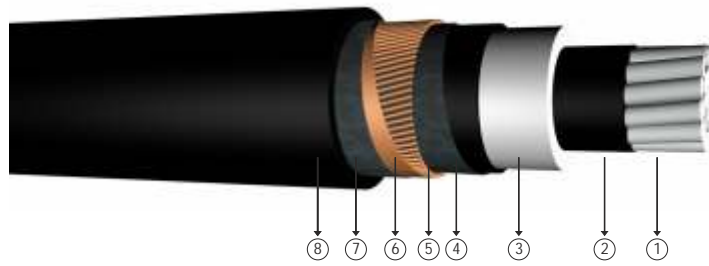




6/10 kV XLPE insulated, single core cables with aluminium conductor



Code: NA2XS2Y

Standards: VDE 0276 - 620

Technical Data

Max. operating temperature : 90 °C
 Max. short circuit temperature : 250 °C (max. 5 sec.)
 Rated voltage : 6/10 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 ③ XLPE insulation ⑤ Semi conductive tape ⑦ Polyester tape
- ② Inner semi conductive layer ④ Outer semi conductive layer ⑥ Copper screen 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 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	23,5	561	1000	0,868	1,1110	0,667	0,406	0,223	-	-	-	-
1x50/16	24,5	612	1000	0,641	0,8205	0,642	0,387	0,248	194	171	215	181
1x70/16	26,0	700	1000	0,443	0,5670	0,611	0,366	0,285	236	209	269	226
1x95/16	27,2	787	1000	0,320	0,4096	0,586	0,350	0,320	281	249	327	275
1x120/16	29,0	895	1000	0,253	0,3238	0,568	0,338	0,350	318	283	377	317
1x150/25	30,0	1064	1000	0,206	0,2637	0,551	0,329	0,382	350	316	424	359
1x185/25	32,0	1213	1000	0,164	0,2099	0,534	0,319	0,415	393	358	485	412
1x240/25	34,3	1409	1000	0,125	0,1600	0,515	0,309	0,462	453	416	573	489
1x300/25	37,0	1652	1000	0,100	0,1280	0,498	0,301	0,507	507	469	652	559
1x400/35	39,5	2014	1000	0,0778	0,1009	0,478	0,291	0,573	559	532	741	651
1x500/35	42,8	2372	1000	0,0605	0,0774	0,462	0,284	0,631	622	599	838	744
1x630/35	46,8	2868	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