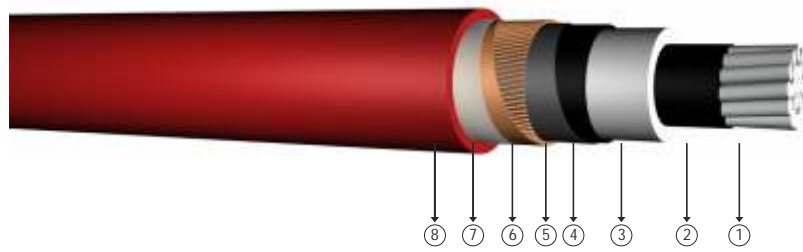




6/10 kV XLPE insulated single core cables with aluminium conductor



Code: NA2XSY

R: Stranded Conductor Rigid

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 cables have a low dielectric loss, used in indoors and outdoors, in cable ducts, underground, in power or switching stations, local energy distributions, industrial plants, where there is no risk of mechanical damage.

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 PVC 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	663	1000	0,868	1,1110	0,657	0,367	0,223	-	-	-	-
1x50/16	24,5	715	1000	0,641	0,8205	0,632	0,351	0,248	194	171	215	181
1x70/16	26,0	806	1000	0,443	0,5670	0,601	0,332	0,285	236	209	269	226
1x95/16	27,2	898	1000	0,320	0,4096	0,577	0,318	0,320	281	249	327	275
1x120/16	29,0	1021	1000	0,253	0,3238	0,558	0,308	0,350	318	283	377	317
1x150/25	30,0	1188	1000	0,206	0,2637	0,541	0,299	0,382	350	316	424	359
1x185/25	32,0	1351	1000	0,164	0,2099	0,525	0,292	0,415	393	358	485	412
1x240/25	34,3	1552	1000	0,125	0,1600	0,506	0,284	0,462	453	416	573	489
1x300/25	37,0	1816	1000	0,100	0,1280	0,490	0,279	0,507	507	469	652	559
1x400/35	39,5	2180	1000	0,0778	0,1009	0,471	0,275	0,573	559	532	741	651
1x500/35	42,8	2553	1000	0,0605	0,0774	0,456	0,270	0,631	622	599	838	744
1x630/35	46,8	3067	1000	0,0469	0,0600	0,440	0,264	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