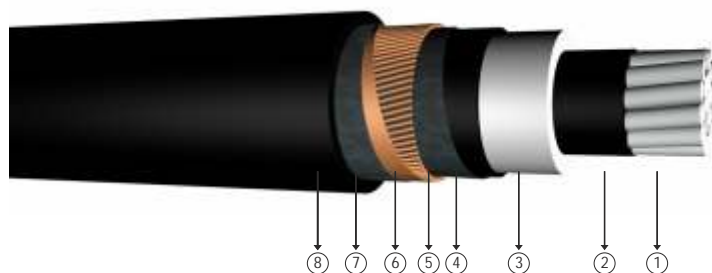




12/20 kV XLPE insulated, single core cables with aluminium conductor



Code: NA2XS2Y

Standards: VDE 0276 - 620

Technical Data

Max. operating temperature : 90 °C
 Max. short circuit temperature : 250 °C (max. 5 sec.)
 Rated voltage : 12/20 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	28,0	721	1000	0,868	1,1110	0,676	0,436	0,157	-	-	-	-
1x50/16	29,0	776	1000	0,641	0,8205	0,650	0,416	0,174	195	173	217	184
1x70/16	31,0	897	1000	0,443	0,5670	0,619	0,394	0,197	237	211	270	229
1x95/16	32,0	977	1000	0,320	0,4096	0,595	0,377	0,218	282	252	328	278
1x120/16	33,0	1064	1000	0,253	0,3238	0,576	0,365	0,238	320	287	378	320
1x150/25	34,2	1248	1000	0,206	0,2637	0,559	0,353	0,258	353	320	425	363
1x185/25	36,0	1401	1000	0,164	0,2099	0,543	0,343	0,278	396	362	485	415
1x240/25	39,0	1650	1000	0,125	0,1600	0,523	0,330	0,308	457	421	573	493
1x300/25	41,0	1863	1000	0,100	0,1280	0,506	0,321	0,336	511	474	652	563
1x400/35	44,5	2307	1000	0,0778	0,1009	0,485	0,309	0,377	566	538	740	652
1x500/35	47,5	2671	1000	0,0605	0,0774	0,469	0,300	0,413	630	606	838	746
1x630/35	51,0	3157	1000	0,0469	0,0600	0,452	0,292	0,455	719	686	953	850

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