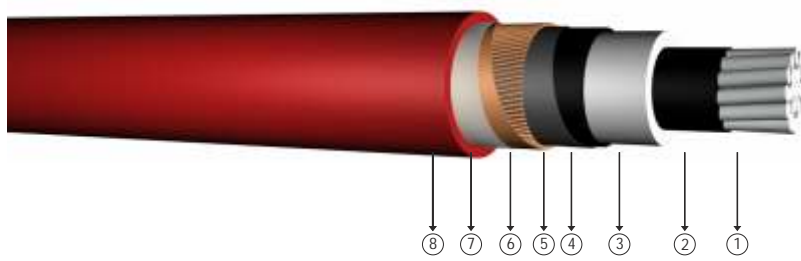




12/20 kV XLPE insulated single core cables with aluminium conductor



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 : 12/20 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	28,0	851	1000	0,868	1,1110	0,670	0,416	0.157	-	-	-	-
1x50/16	29,0	906	1000	0,641	0,8205	0,644	0,397	0.174	195	173	217	184
1x70/16	31,0	1044	1000	0,443	0,5670	0,614	0,377	0.197	237	211	270	229
1x95/16	32,0	1115	1000	0,320	0,4096	0,590	0,360	0.218	282	252	328	278
1x120/16	33,0	1204	1000	0,253	0,3238	0,571	0,349	0.238	320	287	378	320
1x150/25	34,2	1391	1000	0,206	0,2637	0,554	0,338	0.258	353	320	425	363
1x185/25	36,0	1551	1000	0,164	0,2099	0,538	0,329	0.278	396	362	485	415
1x240/25	39,0	1830	1000	0,125	0,1600	0,518	0,317	0.308	457	421	573	493
1x300/25	41,0	2049	1000	0,100	0,1280	0,501	0,308	0.336	511	474	652	563
1x400/35	44,5	2532	1000	0,0778	0,1009	0,480	0,298	0.377	566	538	740	652
1x500/35	47,5	2894	1000	0,0605	0,0774	0,464	0,290	0.413	630	606	838	746
1x630/35	51,0	3375	1000	0,0469	0,0600	0,448	0,282	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