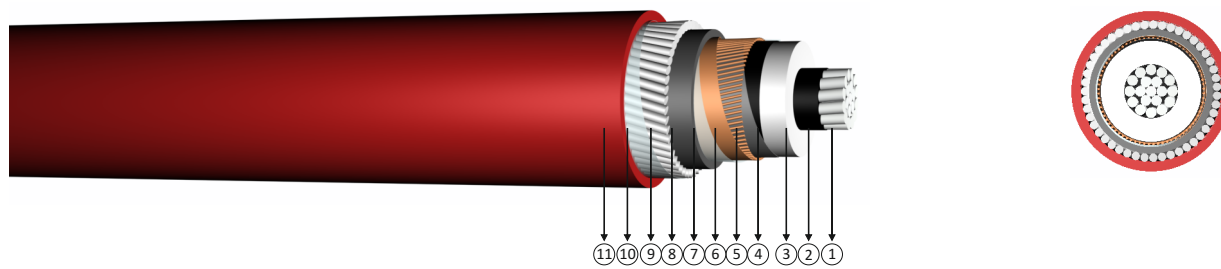


12/20 kV or 12.7/22 kV XLPE insulated round aluminium wire armoured single core cables with aluminium conductor



Code: NA2XSUR(A)Y, AL/XLPE/CWS/PVC/AWA/PVC

Standards: IEC 60502 - 2, VDE 0276 - 620, BS 6622

Technical Data

Max. operating temperature : 90 °C
 Max. short circuit temperature : 250 °C (max. 5 sec.)
 Rated voltage : 12/20 kV
 : 12.7/22 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 ④ Outer semi conductive layer ⑦ Polyester tape ⑩ Polyester tape
- ② Inner semi conductive layer ⑤ Semi conductive tape ⑧ Inner sheath ⑪ PVC outer jacket
- ③ XLPE insulation ⑥ Copper screen ⑨ Round aluminium wire

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)			
						*** mH/km	** mH/km		In ground at 20 °C		In air at 30 °C	
mm ²	mm	kg/km	m	ohm/km	ohm/km	*** mH/km	** mH/km	µF/km	***	**	***	**
1x35/16	32,6	1275	1000	0,868	1,111	0,657	0,367	0,123	-	-	-	-
1x50/16	34,5	1440	1000	0,641	0,8205	0,632	0,351	0,135	195	173	217	184
1x70/16	36,4	1610	1000	0,443	0,5670	0,601	0,332	0,151	237	211	270	229
1x95/16	38,1	1760	1000	0,320	0,4096	0,577	0,318	0,166	282	252	328	278
1x120/16	39,8	1915	1000	0,253	0,3238	0,558	0,308	0,180	320	287	378	320
1x150/25	41,1	2150	1000	0,206	0,2637	0,541	0,299	0,194	353	320	425	363
1x185/25	43,0	2355	1000	0,164	0,2099	0,525	0,292	0,208	396	362	485	415
1x240/25	46,8	2820	1000	0,125	0,1600	0,506	0,284	0,229	457	421	573	493
1x300/25	48,9	3110	1000	0,100	0,1280	0,490	0,279	0,248	511	474	652	563
1x400/35	52,4	3670	500	0,0778	0,1009	0,471	0,275	0,276	566	538	740	652
1x500/35	55,8	4155	500	0,0605	0,0774	0,456	0,270	0,301	630	606	838	746
1x630/35	56,0	4845	500	0,0469	0,0600	0,440	0,264	0,330	719	686	953	850

Note
 In ground : Current carrying capacities are valid under the following conditions;
 : 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