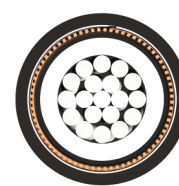
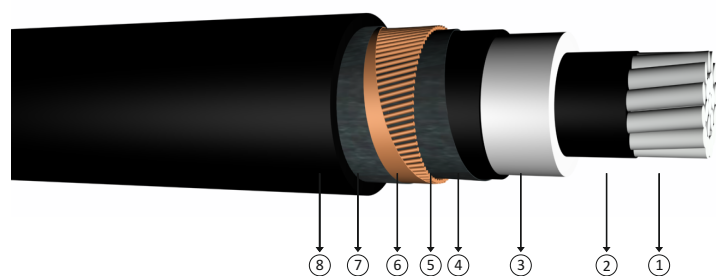


12/20 kV or 12.7/22 kV XLPE insulated, radial and longitudinally sealed, single core cables with aluminium conductor



Code: NA2XS(FL)2Y, AL/XLPE/CWS/LW/PE

Standards: IEC 60502 - 2, VDE 0276 - 620, BS 7870 - 4.10

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. If the cable gets water inside due to the mechanical damages, swellable tapes prevent the movement of the water inside the cable.

Construction

- 1 Stranded aluminium conductor
- 4 Outer semi conductive layer
- 7 Swellable tape
- 2 Inner semi conductive layer
- 5 Semi conductive swelling tape
- 8 PE coated aluminium foil
- 3 XLPE insulation
- 6 Copper screen
- 9 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	31,0	750	1000	0,868	1,1110	0,678	0,442	0,157	-	-	-	-
1x50/16	32,0	850	1000	0,641	0,8205	0,652	0,424	0,174	194	173	217	184
1x70/16	34,0	950	1000	0,443	0,5670	0,621	0,400	0,197	237	211	270	229
1x95/16	35,5	1100	1000	0,320	0,4096	0,597	0,384	0,218	282	252	328	278
1x120/16	37,5	1200	1000	0,253	0,3238	0,578	0,370	0,238	320	287	378	320
1x150/25	39,0	1450	1000	0,206	0,2637	0,561	0,359	0,258	353	320	425	363
1x185/25	41,0	1600	1000	0,164	0,2099	0,545	0,348	0,278	396	362	485	415
1x240/25	43,5	1850	1000	0,125	0,1600	0,525	0,336	0,308	457	421	573	493
1x300/25	45,5	2100	1000	0,100	0,1280	0,508	0,326	0,336	511	474	652	563
1x400/35	49,0	2550	1000	0,0778	0,1009	0,487	0,313	0,377	566	538	740	652
1x500/35	52,5	2950	1000	0,0605	0,0774	0,471	0,305	0,413	630	606	838	746
1x630/35	56,0	3400	1000	0,0469	0,0600	0,454	0,296	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