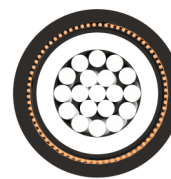
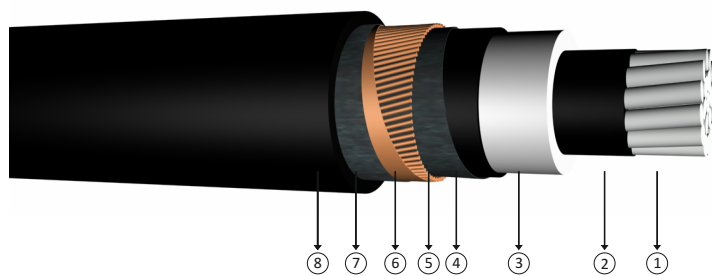




## 12/20 kV or 12.7/22 kV XLPE insulated, longitudinally sealed, single core cables with aluminium conductor



**Code:** NA2XS(F)2Y, AL/XLPE/LW/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  
 Min. bending radius : 12.7/22 kV  
 : 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
- 2 Inner semi conductive layer
- 3 XLPE insulation
- 4 Outer semi conductive layer
- 5 Semi conductive swelling tape
- 6 Copper screen
- 7 Swellable tape
- 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 <sup>2</sup>	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	30,0	700	1000	0,868	1,1110	0,676	0,436	0,157	-	-	-	-	
1x50/16	31,0	800	1000	0,641	0,8205	0,650	0,416	0,174	195	173	217	184	
1x70/16	33,0	900	1000	0,443	0,5670	0,619	0,394	0,197	237	211	270	229	
1x95/16	34,5	1000	1000	0,320	0,4096	0,595	0,377	0,218	282	252	328	278	
1x120/16	36,5	1150	1000	0,253	0,3238	0,576	0,365	0,238	320	287	378	320	
1x150/25	38,0	1350	1000	0,206	0,2637	0,559	0,353	0,258	353	320	425	363	
1x185/25	40,0	1500	1000	0,164	0,2099	0,543	0,343	0,278	396	362	485	415	
1x240/25	42,5	1700	1000	0,125	0,1600	0,523	0,330	0,308	457	421	573	493	
1x300/25	44,5	1950	1000	0,100	0,1280	0,506	0,321	0,336	511	474	652	563	
1x400/35	48,0	2400	1000	0,0778	0,1009	0,485	0,309	0,377	566	538	740	652	
1x500/35	51,0	2800	1000	0,0605	0,0774	0,469	0,300	0,413	630	606	838	746	
1x630/35	55,0	3250	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