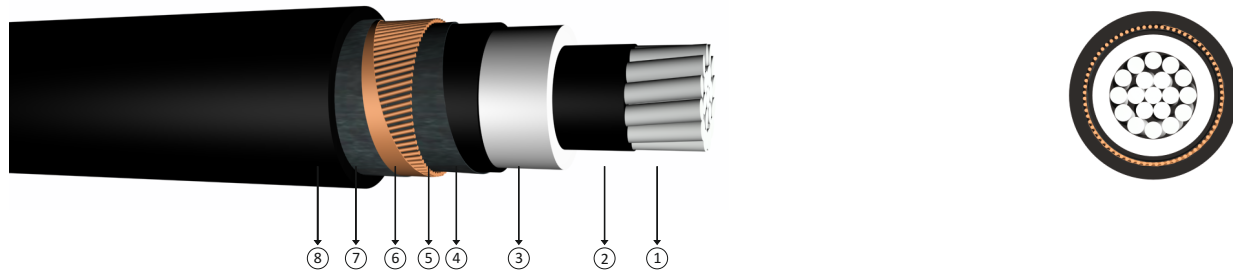


# 12/20 kV or 12.7/22 kV XLPE insulated, single core cables with aluminium conductor



Code: NA2XS2Y, AL/XLPE/CWS/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.

### Construction

- 1 Stranded aluminium conductor
- 2 Inner semi conductive layer
- 3 XLPE insulation
- 4 Outer semi conductive layer
- 5 Semi conductive tape
- 6 Copper screen
- 7 Polyester 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