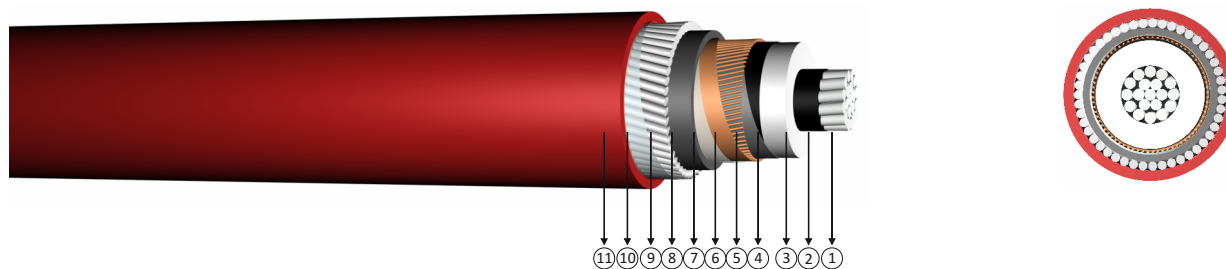




## 5.8/10 kV (6/10 kV) XLPE insulated round aluminium wire armoured single core cables with aluminium conductor



Code: NA2XSYR(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 : 5.8/10 kV (6/10 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
- 2 Inner semi conductive layer
- 3 XLPE insulation
- 4 Outer semi conductive layer
- 5 Semi conductive tape
- 6 Copper screen
- 7 Polyester tape
- 8 Inner sheath
- 9 Round aluminium wire
- 10 Polyester tape
- 11 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 <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	28,0	1015	1000	0,868	1,1110	0,657	0,367	0,223	-	-	-	-
1x50/16	29,3	1106	1000	0,641	0,8205	0,632	0,351	0,248	194	171	215	181
1x70/16	31,0	1230	1000	0,443	0,5670	0,601	0,332	0,285	236	209	269	226
1x95/16	32,9	1392	1000	0,320	0,4096	0,577	0,318	0,320	281	249	327	275
1x120/16	35,1	1600	1000	0,253	0,3238	0,558	0,308	0,350	318	283	377	317
1x150/25	36,7	1835	1000	0,206	0,2637	0,541	0,299	0,382	350	316	424	359
1x185/25	38,4	2013	1000	0,164	0,2099	0,525	0,292	0,415	393	358	485	412
1x240/25	41,0	2286	1000	0,125	0,1600	0,506	0,284	0,462	453	416	573	489
1x300/25	43,2	2556	1000	0,100	0,1280	0,490	0,279	0,507	507	469	652	559
1x400/35	47,7	3227	500	0,0778	0,1009	0,471	0,275	0,573	559	532	741	651
1x500/35	51,0	3674	500	0,0605	0,0774	0,456	0,270	0,631	622	599	838	744
1x630/35	55,0	4365	500	0,0469	0,0600	0,440	0,264	0,699	697	679	957	851

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