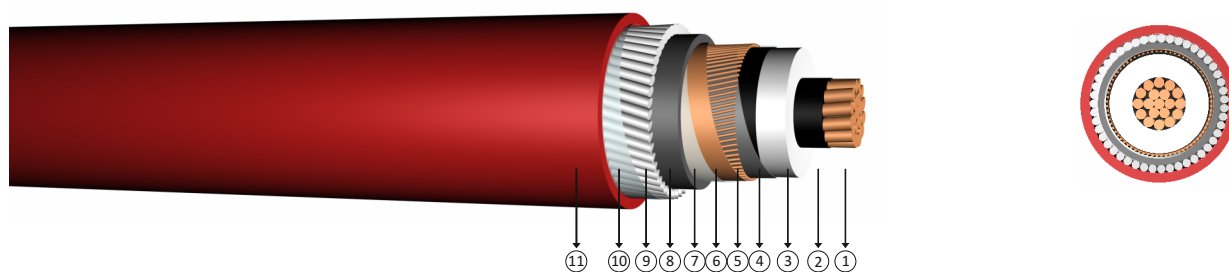


5.8/10 kV (6/10 kV) XLPE insulated round aluminium wire armoured single core cables with copper conductor



Code: N2XSYR(A)Y, CU/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 copper conductors
- 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 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	28,0	1220	1000	0,524	0,6707	0,657	0,367	0,223	212	187	231	195
1x50/16	29,3	1390	1000	0,387	0,4954	0,632	0,351	0,248	249	220	277	234
1x70/16	31,0	1640	1000	0,268	0,3430	0,601	0,332	0,285	303	269	345	292
1x95/16	32,9	1962	1000	0,193	0,2470	0,577	0,318	0,320	358	321	418	354
1x120/16	35,1	2320	1000	0,153	0,1958	0,558	0,308	0,350	404	364	481	407
1x150/25	36,7	2725	1000	0,124	0,1587	0,541	0,299	0,382	441	405	537	460
1x185/25	38,4	3125	1000	0,0991	0,1268	0,525	0,292	0,415	493	457	612	527
1x240/25	41,0	3750	1000	0,0754	0,0965	0,506	0,284	0,462	563	528	716	621
1x300/25	43,2	4380	1000	0,0601	0,0769	0,490	0,279	0,507	626	593	811	709
1x400/35	47,7	5600	500	0,0470	0,0602	0,471	0,275	0,573	676	665	901	815
1x500/35	51,0	6620	500	0,0366	0,0468	0,456	0,270	0,631	743	739	1006	921
1x630/35	55,0	8190	500	0,0283	0,0362	0,440	0,264	0,699	820	818	1130	1045

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