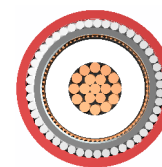
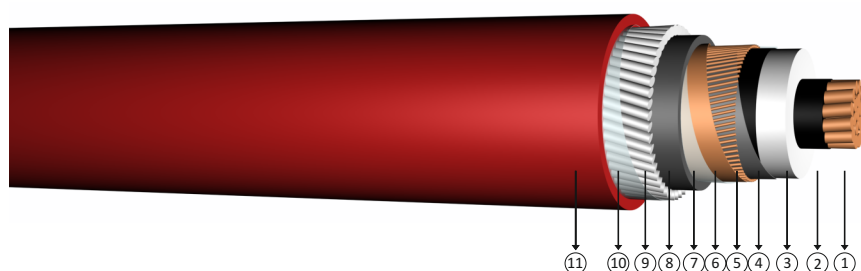


8.7/15 kV XLPE insulated round aluminium wire armoured single core cables with copper conductor



Code: N2XSYR(A)Y, CU/XLPE/CWS/PVC/AWA/PVC

Standards: IEC 60502 - 2, VDE 0276 - 620

Technical Data

Max. operating temperature : 90 °C
 Max. short circuit temperature : 250 °C (max. 5 sec.)
 Rated voltage : 8.7/15 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	30,4	1355	1000	0,524	0,6707	0,657	0,367	0,181	212	187	231	195
1x50/16	31,5	1509	1000	0,387	0,4954	0,632	0,351	0,201	249	220	277	234
1x70/16	33,4	1784	1000	0,268	0,3430	0,601	0,332	0,229	303	269	345	292
1x95/16	36,1	2198	1000	0,193	0,2470	0,577	0,318	0,255	358	321	418	354
1x120/16	37,6	2490	1000	0,153	0,1958	0,558	0,308	0,278	404	364	481	407
1x150/25	39,1	2900	1000	0,124	0,1587	0,541	0,299	0,302	441	405	537	460
1x185/25	40,8	3295	1000	0,0991	0,1268	0,525	0,292	0,328	493	457	612	527
1x240/25	43,8	3945	1000	0,0754	0,0965	0,506	0,284	0,363	563	528	716	621
1x300/25	46,8	4746	1000	0,0601	0,0769	0,490	0,279	0,398	626	593	811	709
1x400/35	50,0	5820	500	0,0470	0,0602	0,471	0,275	0,447	676	665	901	815
1x500/35	53,6	6971	500	0,0366	0,0468	0,456	0,270	0,491	743	739	1006	921
1x630/35	57,3	8410	500	0,0283	0,0362	0,440	0,264	0,543	820	818	1130	1045

Note
 In ground
 In air

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Number of system

: Current carrying capacities are valid under the following conditions;
 : 20 °C, 70 cm depth of lay, soil-thermal resistivity 1 K.m/W, load factor 0.7
 : 30 °C, load factor 1.0
 : Flat formation, clearance between cables; in air = 1 x Cable outer diameter, in ground = 7 cm
 : Trefoil formation
 : 1