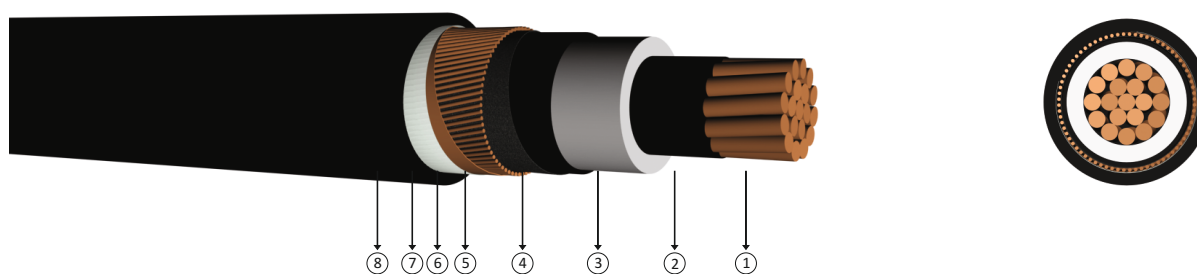


## 8.7/15 kV XLPE insulated, single core cables with copper conductor



**Code:** N2XS2Y, CU/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 : 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 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	28,0	900	1000	0,524	0,6707	0,674	0,429	0,181	212	187	231	195
1x50/16	29,0	1100	1000	0,387	0,4954	0,648	0,410	0,201	249	220	277	234
1x70/16	30,0	1300	1000	0,268	0,3430	0,617	0,387	0,229	303	269	345	292
1x95/16	32,0	1600	1000	0,193	0,2470	0,593	0,371	0,255	358	321	418	354
1x120/16	34,0	1850	1000	0,153	0,1958	0,574	0,358	0,278	404	364	481	407
1x150/25	36,0	2250	1000	0,124	0,1587	0,557	0,348	0,302	441	405	537	460
1x185/25	37,0	2600	1000	0,0991	0,1268	0,541	0,337	0,328	493	457	612	527
1x240/25	40,0	3200	1000	0,0754	0,0965	0,521	0,326	0,363	563	528	716	621
1x300/25	42,0	3800	1000	0,0601	0,0769	0,504	0,316	0,398	626	593	811	709
1x400/35	46,0	4900	1000	0,0470	0,0602	0,483	0,305	0,447	676	665	901	815
1x500/35	48,0	5900	500	0,0366	0,0468	0,467	0,297	0,491	743	739	1006	921
1x630/35	54,0	7150	500	0,0283	0,0362	0,451	0,289	0,543	820	818	1130	1045

Note  
 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