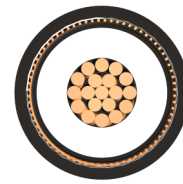
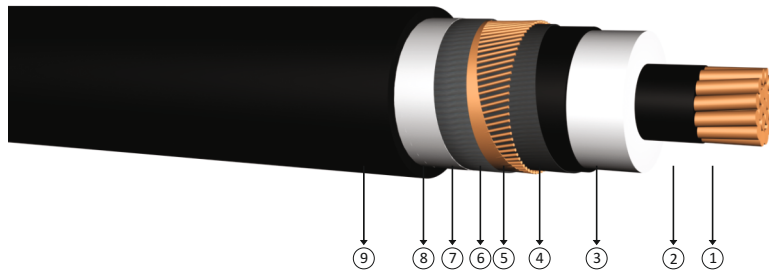


# 18/30 kV or 19/33 kV XLPE insulated, radial and longitudinally sealed, single core cables with copper conductor



**Code:** N2XS(FL)2Y, CU/XLPE/LW/CWS/LW/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 : 18/30 kV  
 : 19/33 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. If the cable gets water inside due to the mechanical damages, swellable tapes prevent the movement of the water inside the cable.

### Construction

- 1 Stranded copper conductors
- 2 Inner semi conductive layer
- 3 XLPE insulation
- 4 Outer semi conductive layer
- 5 Semi conductive swelling tape
- 6 Copper screen
- 7 Swellable tape
- 8 PE coated aluminium foil.
- 9 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	36,5	1250	1000	0,524	0,6707	0,688	0,474	0,123	214	192	233	202
1x50/16	37,5	1400	1000	0,387	0,4954	0,662	0,453	0,135	251	226	279	241
1x70/16	39,5	1650	1000	0,268	0,3430	0,631	0,429	0,151	306	276	348	299
1x95/16	41,0	1950	1000	0,193	0,2470	0,607	0,410	0,166	363	329	421	362
1x120/16	43,0	2250	1000	0,153	0,1958	0,588	0,397	0,180	410	373	483	416
1x150/25	44,5	2650	1000	0,124	0,1587	0,570	0,363	0,194	449	415	540	469
1x185/25	46,5	3050	1000	0,0991	0,1268	0,554	0,372	0,208	503	468	615	536
1x240/25	49,5	3650	1000	0,0754	0,0965	0,534	0,359	0,229	576	541	718	630
1x300/25	51,5	4300	1000	0,0601	0,0769	0,517	0,347	0,248	641	608	812	717
1x400/35	55,0	5400	500	0,0470	0,0602	0,495	0,334	0,276	697	684	904	823
1x500/35	58,0	6450	500	0,0366	0,0468	0,479	0,324	0,301	768	762	1011	929
1x630/35	62,0	7750	500	0,0283	0,0362	0,463	0,314	0,330	858	847	1128	1043

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