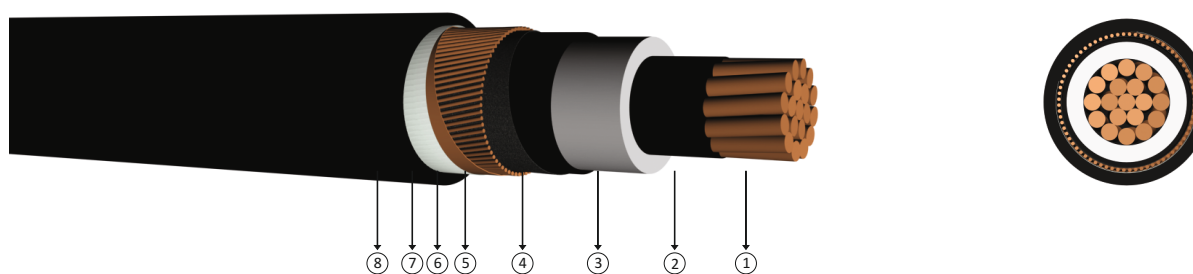


18/30 kV or 19/33 kV XLPE insulated, longitudinally sealed, single core cables with copper conductor



Code: N2XS(F)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 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	35,0	1150	1000	0,524	0,6707	0,686	0,467	0,123	214	192	233	202
1x50/16	36,5	1300	1000	0,387	0,4954	0,660	0,448	0,135	251	226	279	241
1x70/16	38,0	1550	1000	0,268	0,3430	0,629	0,423	0,151	306	276	348	299
1x95/16	40,0	1850	1000	0,193	0,2470	0,605	0,405	0,166	363	329	421	362
1x120/16	42,0	2150	1000	0,153	0,1958	0,586	0,391	0,180	410	373	483	416
1x150/25	43,5	2550	1000	0,124	0,1587	0,568	0,379	0,194	449	415	540	469
1x185/25	45,0	2950	1000	0,0991	0,1268	0,552	0,367	0,208	503	468	614	536
1x240/25	48,0	3550	1000	0,0754	0,0965	0,532	0,354	0,229	576	541	718	630
1x300/25	50,0	4150	1000	0,0601	0,0769	0,515	0,343	0,248	641	608	813	717
1x400/35	53,5	5300	500	0,0470	0,0602	0,494	0,330	0,276	697	684	904	823
1x500/35	56,5	6300	500	0,0366	0,0468	0,478	0,320	0,301	768	762	1011	929
1x630/35	60,5	7600	500	0,0283	0,0362	0,461	0,310	0,330	858	847	1128	1043

Note
 In ground : 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
 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