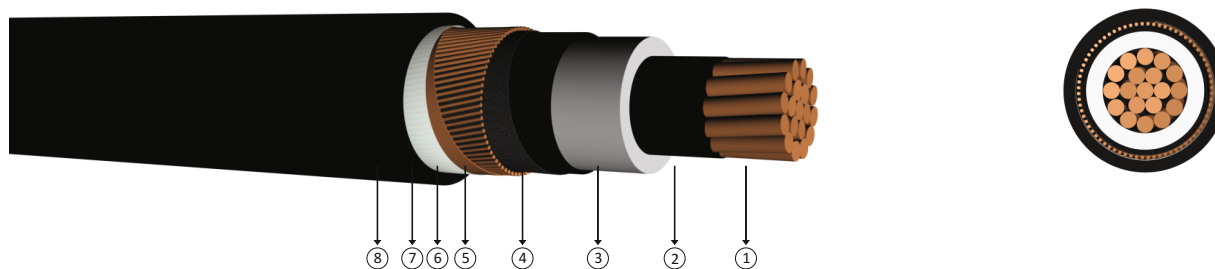


3.6/6 kV XLPE insulated, longitudinally sealed, single core cables with copper conductor



Code: N2XS(F)2Y, CU/XLPE/LW/CWS/LW/PE

Standards: TS IEC 60502 - 2, VDE 276 - 620

Technical Data

Max. operating temperature	: 90 °C
Max. short circuit temperature	: 250 °C (max. 5 sec.)
Rated voltage	: 3.6/6 kV 3.8/6.6 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		Operational 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	24,0	700	1000	0,524	0,6707	0,663	0,391	0,283	201	191	238	199
1x50/16	25,0	900	1000	0,387	0,4954	0,638	0,374	0,318	241	227	285	241
1x70/16	26,5	1100	1000	0,268	0,3430	0,607	0,353	0,368	301	277	356	301
1x95/16	28,5	1350	1000	0,193	0,2470	0,583	0,338	0,414	364	331	435	365
1x120/16	30,0	1600	1000	0,153	0,1958	0,564	0,327	0,455	424	379	496	419
1x150/25	31,5	1950	1000	0,124	0,1587	0,547	0,317	0,499	479	422	554	479
1x185/25	33,5	2350	1000	0,0991	0,1268	0,531	0,309	0,544	549	476	637	543
1x240/25	36,5	2850	1000	0,0754	0,0965	0,511	0,299	0,587	640	550	746	640
1x300/25	39,0	3500	1000	0,0601	0,0769	0,496	0,294	0,603	724	619	846	731
1x400/35	43,0	4600	1000	0,0470	0,0602	0,476	0,287	0,642	795	695	941	840
1x500/35	46,5	5550	500	0,0366	0,0468	0,461	0,282	0,667	883	773	1051	949
1x630/35	50,0	6800	500	0,0283	0,0362	0,445	0,275	0,739	981	856	1180	1076

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