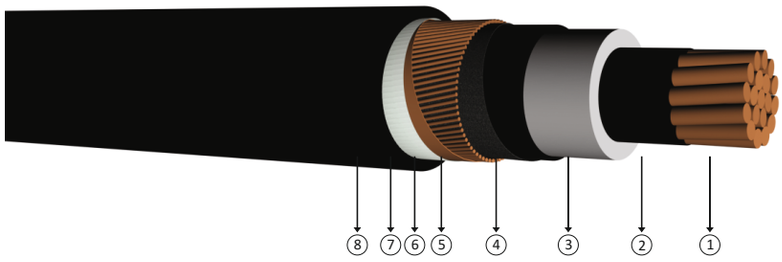
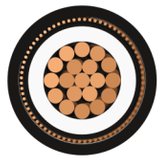
5.8/10 kV (6/10 kV) or 6.35/11 kV XLPE insulated, longitudinally sealed, single core cables with copper conductor





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

Standards: TS IEC 60502 - 2, VDE 276 - 620, BS 7870 -4.10

Technical Data

Max. operating temperature	: 90 °C
Max. short circuit temperature	: 250 °C (max. 5 sec.)
Rated voltage	: 5.8/10 kV (6/10 kV) 6.35/11 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 demages, 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)			
									In ground at 20 °C		In air at 30 °C	
mm²	mm	kg/km	m	ohm/km	ohm/km	*** mH/km	** mH/km	µF/km	***	**	***	**
1x35/16	25,5	750	1000	0,524	0,6707	0,667	0,406	0,223	212	187	231	195
1x50/16	27,0	950	1000	0,387	0,4954	0,642	0,387	0,248	249	220	277	234
1x70/16	28,5	1150	1000	0,268	0,3430	0,611	0,366	0,285	303	269	345	292
1x95/16	30,0	1400	1000	0,193	0,2470	0,586	0,350	0,320	358	321	418	354
1x120/16	32,0	1650	1000	0,153	0,1958	0,568	0,338	0,350	404	364	481	407
1x150/25	33,5	2050	1000	0,124	0,1587	0,551	0,329	0,382	441	405	537	460
1x185/25	35,5	2400	1000	0,0991	0,1268	0,534	0,319	0,415	493	457	612	527
1x240/25	38,0	2950	1000	0,0754	0,0965	0,515	0,309	0,462	563	528	716	621
1x300/25	40,5	3550	1000	0,0601	0,0769	0,498	0,301	0,507	626	593	811	709
1x400/35	43,5	4650	1000	0,0470	0,0602	0,478	0,291	0,573	676	665	901	815
1x500/35	47,0	5600	500	0,0366	0,0468	0,462	0,284	0,631	743	739	1006	921
1x630/35	50,5	6850	500	0,0283	0,0362	0,446	0,276	0,699	820	818	1130	1045

Note	: Current carrying capacities are valid under the following conditions;
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