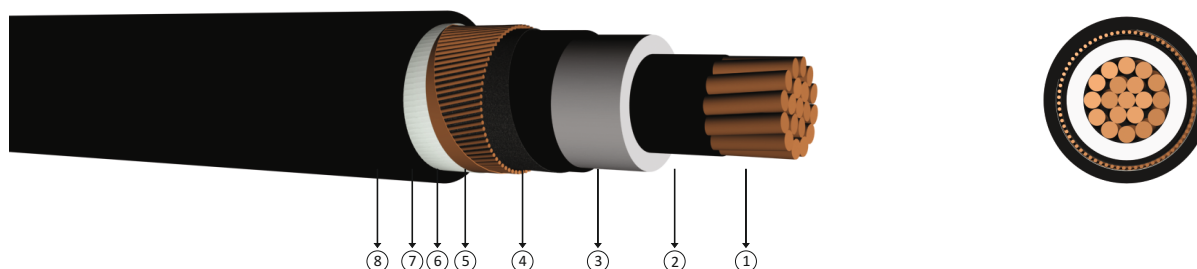


8.7/15 kV XLPE insulated, longitudinally sealed, single core cables with copper conductor



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

Standards: IEC 60502 - 2, VDE 0276 - 620

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. 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 3 XLPE insulation 5 Semi conductive swelling tape 7 Swellable tape
 2 Inner semi conductive layer 4 Outer semi conductive layer. 6 Copper screen 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	28,0	850	1000	0,524	0,6707	0,672	0,422	0,181	212	187	231	195
1x50/16	29,0	1000	1000	0,387	0,4954	0,646	0,403	0,201	249	220	277	234
1x70/16	30,5	1250	1000	0,268	0,3430	0,615	0,381	0,229	303	269	345	292
1x95/16	32,5	1500	1000	0,193	0,2470	0,591	0,364	0,255	358	321	418	354
1x120/16	34,5	1750	1000	0,153	0,1958	0,572	0,353	0,278	404	364	481	407
1x150/25	35,5	2150	1000	0,124	0,1587	0,555	0,341	0,302	441	405	537	460
1x185/25	37,5	2500	1000	0,0991	0,1268	0,539	0,332	0,328	493	457	612	527
1x240/25	40,5	3100	1000	0,0754	0,0965	0,519	0,321	0,363	563	528	716	621
1x300/25	42,5	3700	1000	0,0601	0,0769	0,502	0,311	0,398	626	593	811	709
1x400/35	46,0	4800	1000	0,0470	0,0602	0,482	0,301	0,447	676	665	901	815
1x500/35	49,5	5750	500	0,0366	0,0468	0,466	0,293	0,491	743	739	1006	921
1x630/35	53,0	7000	500	0,0283	0,0362	0,450	0,285	0,543	820	818	1130	1045

Note
 In ground
 In air

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Number of system

: 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
 : 30 °C, load factor 1.0
 : Flat formation, clearance between cables; in air = 1 x Cable outer diameter, in ground = 7 cm
 : Trefoil formation
 : 1