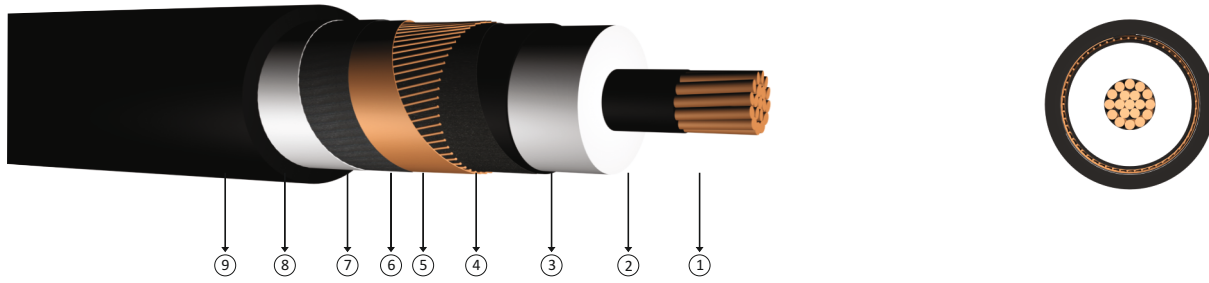


3.6/6 kV XLPE insulated, radial and longitudinally sealed, single core cables with copper conductor



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

Standards: IEC 60502 - 2, VDE 0276 - 620

Technical Data

Max. operating temperature : 90 °C
 Max. short circuit temperature : 250 °C (max. 5 sec.)
 Rated voltage : 3.6/6 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 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 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	25,0	800	1000	0,524	0,6707	0,665	0,395	0,283	201	191	238	199	
1x50/16	26,0	950	1000	0,387	0,4954	0,640	0,381	0,318	241	227	285	241	
1x70/16	27,5	1150	1000	0,268	0,3430	0,609	0,361	0,368	301	277	356	301	
1x95/16	29,5	1400	1000	0,193	0,2470	0,585	0,345	0,414	364	331	435	365	
1x120/16	31,0	1600	1000	0,153	0,1958	0,566	0,333	0,455	424	379	496	419	
1x150/25	32,5	2050	1000	0,124	0,1587	0,549	0,323	0,499	479	422	554	479	
1x185/25	34,5	2400	1000	0,0991	0,1268	0,533	0,315	0,544	549	476	637	543	
1x240/25	37,5	2950	1000	0,0754	0,0965	0,513	0,306	0,587	640	550	746	640	
1x300/25	40,0	3600	1000	0,0601	0,0769	0,498	0,300	0,603	724	619	846	731	
1x400/35	44,0	4700	1000	0,0470	0,0602	0,478	0,292	0,642	795	695	941	840	
1x500/35	47,5	5700	500	0,0366	0,0468	0,463	0,286	0,667	883	773	1051	949	
1x630/35	51,5	6950	500	0,0283	0,0362	0,947	0,278	0,739	981	856	1180	1076	

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