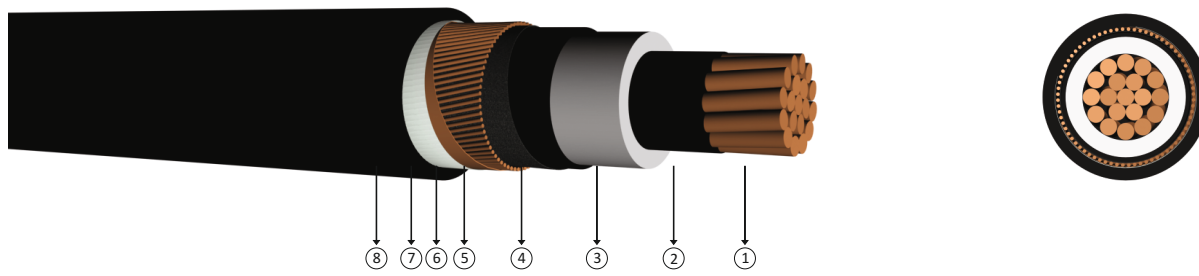


3.6/6 kV XLPE insulated single core cables with copper conductor



Code: N2XS2Y, CU/XLPE/CWS/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 : 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.

Construction

- 1 Stranded copper conductors 3 XLPE insulation 5 Semi conductive tape 7 Polyester 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	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