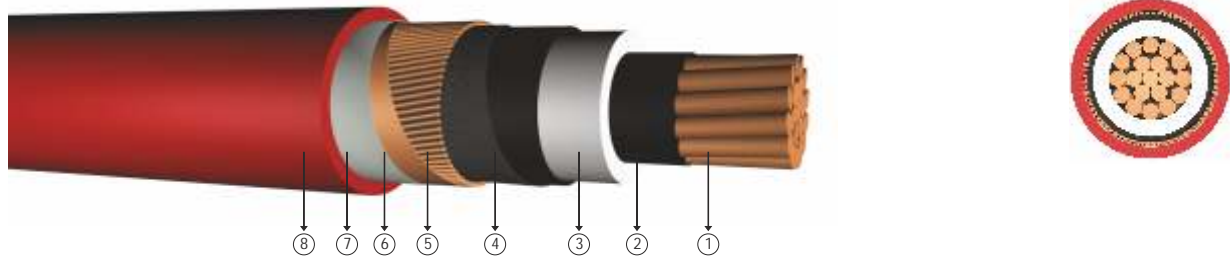




12/20 kV XLPE insulated, single core, cables with copper conductor



Code: N2XSY

R: Stranded Conductor Rigid

Standards: VDE 276-620

Technical Data

Max. operating temperature : 90 °C
 Max. short circuit temperature : 250 °C (max. 5 sec.)
 Rated voltage : 12/20 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
- ② Inner semi conductive layer
- ③ XLPE insulation
- ④ Outer semi conductive layer
- ⑤ Semi conductive tape
- ⑥ Copper screen
- ⑦ Polyester tape
- ⑧ PVC 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	28,0	1059	1000	0,524	0,6707	0,670	0,416	0,157	213	189	233	199
1x50/16	29,0	1192	1000	0,387	0,4954	0,644	0,397	0,174	250	223	279	238
1x70/16	31,0	1450	1000	0,268	0,3430	0,614	0,377	0,197	304	273	347	296
1x95/16	32,0	1681	1000	0,193	0,2470	0,590	0,360	0,218	361	325	420	358
1x120/16	33,0	1915	1000	0,153	0,1958	0,571	0,349	0,238	407	368	483	412
1x150/25	34,2	2279	1000	0,124	0,1587	0,554	0,338	0,258	445	410	540	466
1x185/25	36,0	2649	1000	0,0991	0,1268	0,538	0,329	0,278	498	463	614	534
1x240/25	39,0	3288	1000	0,0754	0,0965	0,518	0,317	0,308	569	534	718	627
1x300/25	41,0	3874	1000	0,0601	0,0769	0,501	0,308	0,336	633	601	813	715
1x400/35	44,5	4901	1000	0,0470	0,0602	0,480	0,298	0,377	686	674	904	819
1x500/35	47,5	5910	500	0,0366	0,0468	0,464	0,290	0,413	756	750	1011	927
1x630/35	51,0	7259	500	0,0283	0,0362	0,448	0,282	0,455	842	836	1128	1041

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