



Code: N2XS2Y

Standards: VDE 0276 - 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    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 <sup>2</sup>	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	929	1000	0,524	0,6707	0,678	0,442	0,157	213	189	233	199
1x50/16	29,0	1062	1000	0,387	0,4954	0,652	0,422	0,174	250	223	279	238
1x70/16	31,0	1302	1000	0,268	0,3430	0,621	0,400	0,197	304	273	348	296
1x95/16	32,0	1543	1000	0,193	0,2470	0,597	0,382	0,218	361	325	421	358
1x120/16	33,0	1775	1000	0,153	0,1958	0,578	0,370	0,238	407	368	483	412
1x150/25	34,2	2136	1000	0,124	0,1587	0,561	0,358	0,258	445	410	540	466
1x185/25	36,0	2498	1000	0,0991	0,1268	0,545	0,348	0,278	498	463	615	534
1x240/25	39,0	3108	1000	0,0754	0,0965	0,524	0,335	0,308	569	534	718	627
1x300/25	41,0	3687	1000	0,0601	0,0769	0,508	0,325	0,336	633	601	812	715
1x400/35	44,5	4672	1000	0,0470	0,0602	0,486	0,313	0,377	686	674	904	819
1x500/35	47,5	5688	500	0,0366	0,0468	0,470	0,304	0,413	756	750	1011	927
1x630/35	51,0	7041	500	0,0283	0,0362	0,454	0,295	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