



Code: N2XS2Y

Standards: VDE 0276 - 620

### Technical Data

Max. operating temperature : 90 °C  
 Max. short circuit temperature : 250 °C (max. 5 sec.)  
 Rated voltage : 6/10 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	23,5	768	1000	0,524	0,6707	0,669	0,413	0,223	212	187	231	195
1x50/16	24,5	897	1000	0,387	0,4954	0,644	0,395	0,248	249	220	277	234
1x70/16	26,0	1105	1000	0,268	0,3430	0,613	0,373	0,285	303	269	345	292
1x95/16	27,3	1356	1000	0,193	0,2470	0,588	0,357	0,320	358	321	418	354
1x120/16	29,0	1607	1000	0,153	0,1958	0,570	0,346	0,350	404	364	481	407
1x150/25	30,0	1952	1000	0,124	0,1587	0,552	0,335	0,382	441	405	537	460
1x185/25	32,0	2311	1000	0,0991	0,1268	0,537	0,326	0,415	493	457	612	527
1x240/25	34,3	2867	1000	0,0754	0,0965	0,516	0,314	0,462	563	528	716	621
1x300/25	37,0	3477	1000	0,0601	0,0769	0,500	0,305	0,507	626	593	811	709
1x400/35	39,5	4378	1000	0,0470	0,0602	0,479	0,295	0,573	676	665	901	815
1x500/35	42,8	5389	500	0,0366	0,0468	0,463	0,288	0,631	743	739	1006	921
1x630/35	46,8	6753	500	0,0283	0,0362	0,447	0,280	0,699	820	818	1130	1045

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