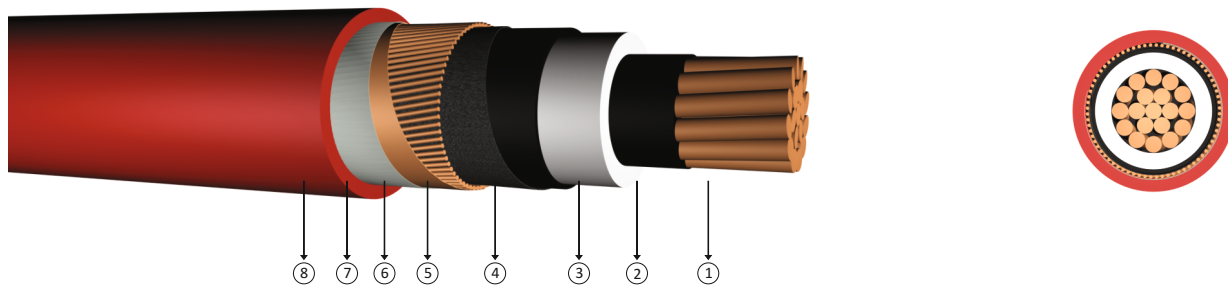


## 3.6/6 kV XLPE insulated, single core, cables with copper conductor



**Code:** YXC7V-R, N2XSY, CU/XLPE/CWS/PVC

R: Stranded Conductor Rigid

**Standards:** TS 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.

### 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 <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	21,0	750	1000	0,524	0,6707	0,657	0,367	0,283	201	191	238	199
1x50/16	22,0	900	1000	0,387	0,4954	0,632	0,351	0,318	241	227	285	241
1x70/16	24,0	1100	1000	0,268	0,3430	0,601	0,332	0,368	301	277	356	301
1x95/16	25,5	1400	1000	0,193	0,2470	0,577	0,318	0,414	364	331	435	365
1x120/16	27,0	1650	1000	0,153	0,1958	0,558	0,308	0,455	424	379	496	419
1x150/25	28,5	2000	1000	0,124	0,1587	0,541	0,299	0,499	479	422	554	479
1x185/25	30,5	2400	1000	0,0991	0,1268	0,525	0,292	0,544	549	476	637	543
1x240/25	33,5	2950	1000	0,0754	0,0965	0,506	0,284	0,587	640	550	746	640
1x300/25	36,0	3550	1000	0,0601	0,0769	0,490	0,279	0,603	724	619	846	731
1x400/35	40,0	4650	1000	0,0470	0,0602	0,471	0,275	0,642	795	695	941	840
1x500/35	43,5	5700	500	0,0366	0,0468	0,456	0,270	0,667	883	773	1051	949
1x630/35	47,0	6950	500	0,0283	0,0362	0,440	0,264	0,739	981	856	1180	1076

Note  
 In ground : Current carrying capacities are valid under the following conditions;  
 : 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