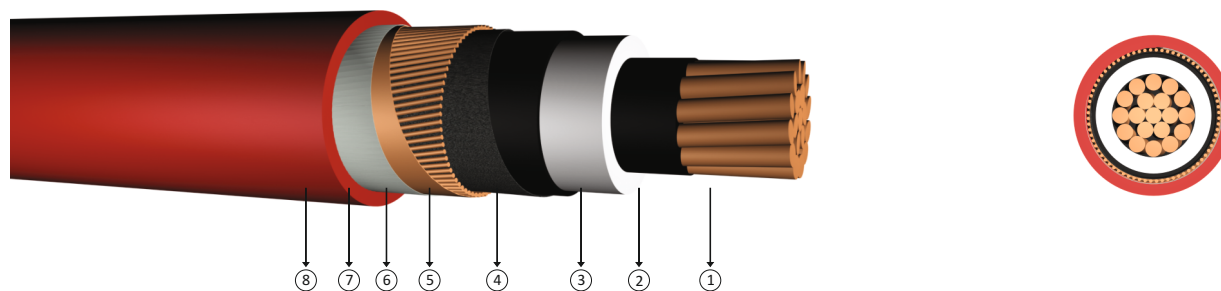




## 5.8/10 kV (6/10 kV) or 6.35/11 kV halogen free, flame retardant, XLPE insulated, single core, cables with copper conductor



**Code:** YXC7Z1-R, N2XSH, CU/XLPE/CWS/LSZH

R: Stranded Conductor Rigid

**Standards:** TS IEC 60502 - 2, VDE 276-620, BS 7870-4.10

### Technical Data

Max. operating temperature : 90 °C  
 Max. short circuit temperature : 250 °C (max. 5 sec.)  
 Rated voltage : 5.8/10 kV (6/10 kV)  
 6.35/11 kV  
 Min. bending radius : 15 x D  
 D : Cable outer diameter

### Application

Used in energy networks in refineries, mines, hotels, schools, tunnels, high constructions, hospitals, power plant, data processing centers, business centers where there is a risk of fire.

### 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 HFFR 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	22,5	800	1000	0,524	0,6707	0,661	0,383	0,223	212	187	231	195
1x50/16	24,0	950	1000	0,387	0,4954	0,636	0,366	0,248	249	220	277	234
1x70/16	26,0	1200	1000	0,268	0,3430	0,606	0,349	0,285	303	269	345	292
1x95/16	27,5	1450	1000	0,193	0,2470	0,582	0,334	0,320	358	321	418	354
1x120/16	29,5	1700	1000	0,153	0,1958	0,563	0,323	0,350	404	364	481	407
1x150/25	30,5	2100	1000	0,124	0,1587	0,546	0,313	0,382	441	405	537	460
1x185/25	32,5	2450	1000	0,0991	0,1268	0,529	0,304	0,415	493	457	612	527
1x240/25	35,0	3050	1000	0,0754	0,0965	0,509	0,294	0,462	563	528	716	621
1x300/25	37,5	3650	1000	0,0601	0,0769	0,493	0,288	0,507	626	593	811	709
1x400/35	41,0	4700	1000	0,0470	0,0602	0,473	0,278	0,573	676	665	901	815
1x500/35	44,0	5700	500	0,0366	0,0468	0,457	0,271	0,631	743	739	1006	921
1x630/35	47,5	7000	500	0,0283	0,0362	0,440	0,264	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