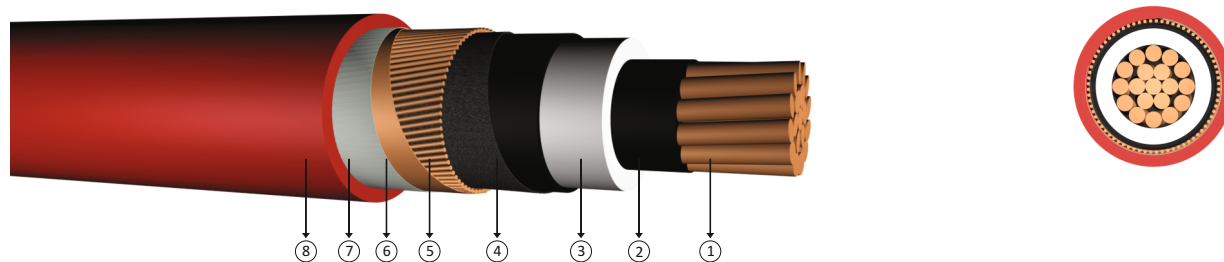




## 12/20 kV or 12.7/22 kV halogen free, flame retardant, XLPE insulated, single core, cables with copper conductor



**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 : 12/20 kV  
   12.7/22 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
- 3 XLPE insulation
- 5 Semi conductive tape
- 7 Polyester tape
- 2 Inner semi conductive layer
- 4 Outer semi conductive layer
- 6 Copper screen
- 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)			
						***	**		In ground at 20 °C		In air at 30 °C	
mm <sup>2</sup>	mm	kg/km	m	ohm/km	ohm/km	mH/km	mH/km	µF/km	***	**	***	**
1x35/16	27,0	950	1000	0,524	0,6707	0,670	0,416	0,157	213	189	233	199
1x50/16	28,5	1150	1000	0,387	0,4954	0,644	0,397	0,174	250	223	279	238
1x70/16	30,0	1400	1000	0,268	0,3430	0,614	0,377	0,197	304	273	347	296
1x95/16	32,0	1650	1000	0,193	0,2470	0,590	0,360	0,218	361	325	420	358
1x120/16	34,0	1950	1000	0,153	0,1958	0,571	0,349	0,238	407	368	483	412
1x150/25	35,0	2350	1000	0,124	0,1587	0,554	0,338	0,258	445	410	540	466
1x185/25	37,0	2700	1000	0,0991	0,1268	0,538	0,329	0,278	498	463	614	534
1x240/25	39,5	3300	1000	0,0754	0,0965	0,518	0,317	0,308	569	534	718	627
1x300/25	42,0	3900	1000	0,0601	0,0769	0,501	0,308	0,336	633	601	813	715
1x400/35	45,5	5000	1000	0,0470	0,0602	0,480	0,298	0,377	686	674	904	819
1x500/35	48,5	6000	500	0,0366	0,0468	0,464	0,290	0,413	756	750	1011	927
1x630/35	52,5	7300	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