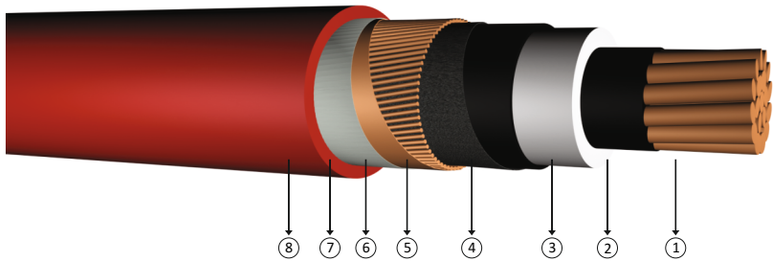
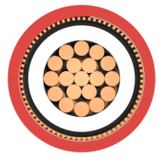
18/30 kV or 19/33 kV halogen free, flame retardant, XLPE insulated, single core, cables with copper conductor





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	: 18/30 kV 19/33 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)			
									In ground at 20 °C		In air at 30 °C	
mm²	mm	kg/km	m	ohm/km	ohm/km	*** mH/km	*** mH/km	µF/km	***	***	***	***
1x35/16	32,0	1200	1000	0,524	0,6707	0,680	0,451	0,123	214	192	233	202
1x50/16	33,5	1400	1000	0,387	0,4954	0,655	0,432	0,135	251	226	279	241
1x70/16	35,0	1650	1000	0,268	0,3430	0,624	0,408	0,151	306	276	348	299
1x95/16	37,0	1950	1000	0,193	0,2470	0,600	0,391	0,166	363	329	421	362
1x120/16	39,0	2250	1000	0,153	0,1958	0,581	0,377	0,180	410	373	483	416
1x150/25	40,5	2700	1000	0,124	0,1587	0,564	0,366	0,194	449	415	540	469
1x185/25	42,5	3050	1000	0,0991	0,1268	0,547	0,355	0,208	503	468	615	536
1x240/25	45,0	3650	1000	0,0754	0,0965	0,527	0,342	0,229	576	541	718	630
1x300/25	47,5	4300	1000	0,0601	0,0769	0,510	0,332	0,248	641	608	812	717
1x400/35	50,5	5450	500	0,0470	0,0602	0,489	0,320	0,276	697	684	904	823
1x500/35	54,0	6500	500	0,0366	0,0468	0,473	0,310	0,301	768	762	1011	929
1x630/35	57,5	7850	500	0,0283	0,0362	0,457	0,301	0,330	858	847	1128	1043

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