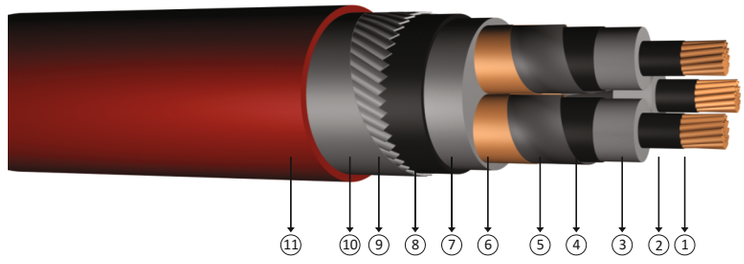
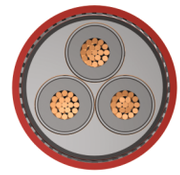
18/30 kV or 19/33 kV halogen free, flame retardant, XLPE insulated round steel wire armoured, three core cables with copper conductor





Code: YXC8Z1Z2Z1-R, N2XSEHRH, CU/XLPE/CTS/LSZH/SWA/LSZH

R: Stranded Conductor Rigid

Standards: IEC 60502 - 2, VDE 0276 - 620, BS 7835

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. Filler
8. Inner sheath
9. Galvanized round steel wire
10. Polyester tape
11. LSZH 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	Operation Inductance (approx)	Operation Capacitance (approx)	Current Carrying Capacity (A)	
mm ²	mm	kg/km	m	ohm/km	mH/km	µF/km	In ground at 20 °C	In air at 30 °C
3x35/16	79,0	9750	500	0,5240	0,457	0,114	183	182
3x50/16	82,5	10750	250	0,3870	0,434	0,124	216	217
3x70/16	86,5	12000	250	0,2680	0,410	0,137	264	269
3x95/16	90,5	13500	250	0,1930	0,389	0,150	316	326
3x120/16	95,0	14950	250	0,1530	0,372	0,163	360	377
3x150/25	98,0	16400	250	0,1240	0,360	0,174	404	426
3x185/25	102,0	18200	250	0,0991	0,348	0,188	457	488
3x240/25	109,5	21250	200	0,0754	0,331	0,209	532	576

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
Number of system : 1