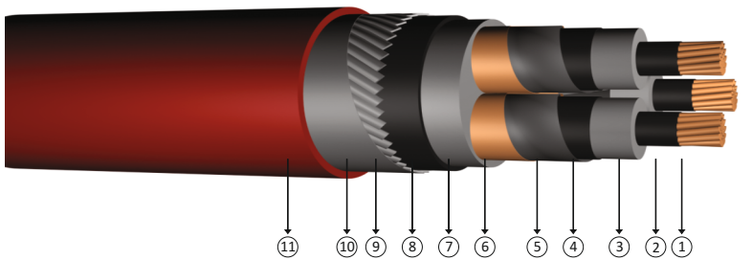
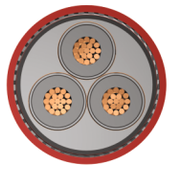
5.8/10 kV (6/10 kV) or 6.35/11 kV halogen free, flame retardant, XLPE insulated round steel wire armoured, three core cables with copper conductor





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	: 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. 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	55,5	5850	500	0,524	0,374	0,189	178	173
3x50/16	58,5	6650	500	0,387	0,355	0,209	210	206
3x70/16	62,5	7750	500	0,268	0,336	0,236	256	257
3x95/16	67,0	9100	500	0,193	0,320	0,263	307	313
3x120/16	71,0	10400	250	0,153	0,308	0,291	349	360
3x150/25	74,0	11700	250	0,124	0,299	0,314	392	410
3x185/25	79,0	14200	250	0,0991	0,290	0,341	443	469
3x240/25	86,0	16950	250	0,0754	0,278	0,387	513	553
3x300/25	92,0	19500	250	0,0601	0,270	0,422	576	635
3x400/35	100,0	23850	250	0,0470	0,261	0,475	650	731

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