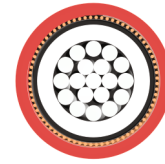
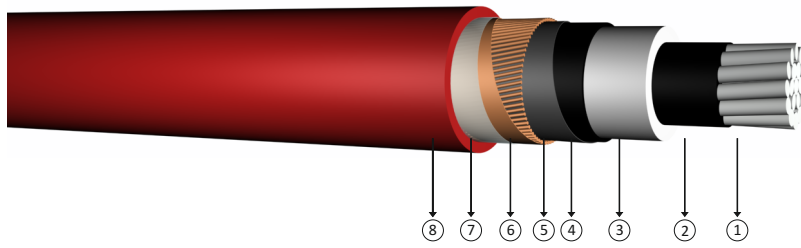


## 3.6/6 kV halogen free, flame retardant, XLPE insulated single core cables with aluminium conductor



**Code:** YAXC7Z1-R, NA2XSH, AL/XLPE/CWS/LSZH

R: Stranded Conductor Rigid

**Standards:** IEC 60502 - 2, VDE 0276 - 620

### Technical Data

Max. operating temperature : 90 °C  
 Max. short circuit temperature : 250 °C (max. 5 sec.)  
 Rated voltage : 3.6/6 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 aluminium conductor
- 2 Inner semi conductive layer
- 3 XLPE insulation
- 4 Outer semi conductive layer
- 5 Semi conductive tape
- 6 Copper screen
- 7 Polyester tape
- 8 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	DC Conductor Resistance at 90 °C Max	Operation Inductance		Operation 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	21,0	550	1000	0,868	1,1110	0,657	0,367	0,283	-	-	-	-
1x50/16	22,0	600	1000	0,641	0,8205	0,632	0,351	0,318	186	178	233	188
1x70/16	24,0	700	1000	0,443	0,5670	0,601	0,332	0,368	234	217	280	235
1x95/16	25,5	800	1000	0,320	0,4096	0,577	0,318	0,414	287	259	344	286
1x120/16	27,0	900	1000	0,253	0,3238	0,558	0,308	0,455	338	298	392	329
1x150/25	28,5	1100	1000	0,206	0,2637	0,541	0,299	0,499	388	333	441	376
1x185/25	30,5	1250	1000	0,164	0,2099	0,525	0,292	0,544	449	377	510	428
1x240/25	33,5	1450	1000	0,125	0,1600	0,506	0,284	0,587	530	438	587	508
1x300/25	36,0	1700	1000	0,100	0,1280	0,490	0,279	0,603	605	495	682	586
1x400/35	40,0	2200	1000	0,0778	0,1009	0,471	0,275	0,642	678	562	781	676
1x500/35	43,5	2600	1000	0,0605	0,0774	0,456	0,270	0,667	762	633	883	772
1x630/35	47,0	3050	1000	0,0469	0,0600	0,440	0,264	0,739	858	712	1007	882

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