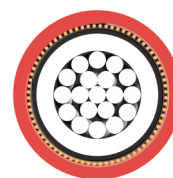
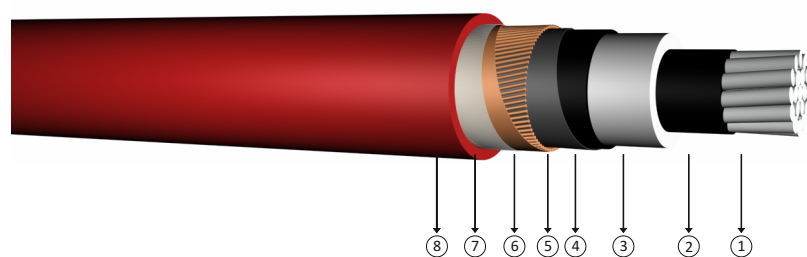


# 12/20 kV or 12.7/22 kV halogen free, flame retardant, XLPE insulated single core cables with aluminium conductor



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

R: Stranded Conductor Rigid

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

### 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 aluminium conductor      3 XLPE insulation      5 Semi conductive tape      7 Polyester tape
- 2 Inner semi conductive layer      4 Outer semi conductive layer      6 Copper screen      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	27,0	750	1000	0,868	1,1110	0,670	0,416	0,157	-	-	-	-
1x50/16	28,5	800	1000	0,641	0,8205	0,644	0,397	0,174	195	173	217	184
1x70/16	30,0	950	1000	0,443	0,5670	0,614	0,377	0,197	237	211	270	229
1x95/16	32,0	1050	1000	0,320	0,4096	0,590	0,360	0,218	282	252	328	278
1x120/16	34,0	1200	1000	0,253	0,3238	0,571	0,349	0,238	320	287	378	320
1x150/25	35,0	1400	1000	0,206	0,2637	0,554	0,338	0,258	353	320	425	363
1x185/25	37,0	1550	1000	0,164	0,2099	0,538	0,329	0,278	396	362	485	415
1x240/25	39,5	1800	1000	0,125	0,1600	0,518	0,317	0,308	457	421	573	493
1x300/25	42,0	2050	1000	0,100	0,1280	0,501	0,308	0,336	511	474	652	563
1x400/35	45,5	2550	1000	0,0778	0,1009	0,480	0,298	0,377	566	538	740	652
1x500/35	48,5	2900	1000	0,0605	0,0774	0,464	0,290	0,413	630	606	838	746
1x630/35	52,5	3400	1000	0,0469	0,0600	0,448	0,282	0,455	719	686	953	850

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