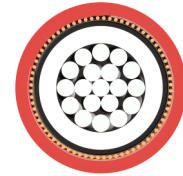
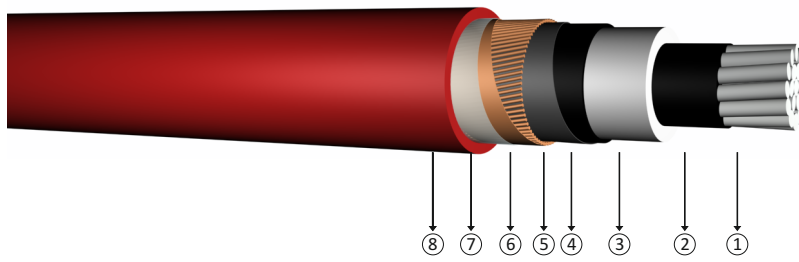


# 18/30 kV or 19/33 kV XLPE insulated single core cables with aluminium conductor



**Code:** YAXC7V-R, NA2XSY, AL/XLPE/CWS/PVC

R: Stranded Conductor Rigid

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

These cables have a low dielectric loss, used in indoors and outdoors, in cable ducts, underground, in power or switching stations, local energy distributions, industrial plants, where there is no risk of mechanical damage.

### 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 PVC 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	32,0	1000	1000	0,868	1,1110	0,680	0,451	0,123	-	-	-	-
1x50/16	33,5	1100	1000	0,641	0,8205	0,655	0,432	0,135	196	175	217	187
1x70/16	35,0	1200	1000	0,443	0,5670	0,624	0,408	0,151	238	214	270	232
1x95/16	37,0	1400	1000	0,320	0,4096	0,600	0,391	0,166	284	256	328	281
1x120/16	39,0	1500	1000	0,253	0,3238	0,581	0,377	0,180	322	290	378	323
1x150/25	40,5	1750	1000	0,206	0,2637	0,564	0,366	0,194	355	324	425	365
1x185/25	42,5	1900	1000	0,164	0,2099	0,547	0,355	0,208	400	366	485	418
1x240/25	45,0	2200	1000	0,125	0,1600	0,527	0,342	0,229	461	426	572	494
1x300/25	47,5	2450	1000	0,100	0,1280	0,510	0,332	0,248	516	479	649	564
1x400/35	50,5	3000	1000	0,0778	0,1009	0,489	0,320	0,276	572	545	737	654
1x500/35	54,0	3400	1000	0,0605	0,0774	0,473	0,310	0,301	638	614	835	747
1x630/35	57,5	3900	1000	0,0469	0,0600	0,457	0,301	0,330	728	690	950	851

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