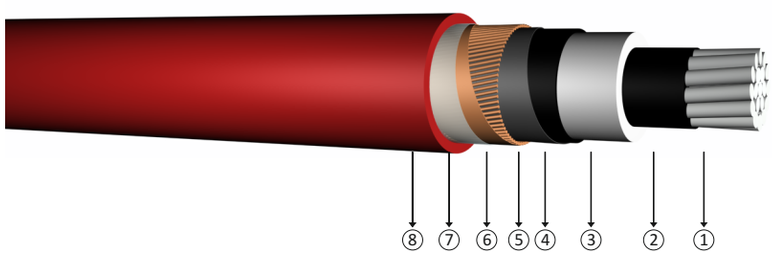
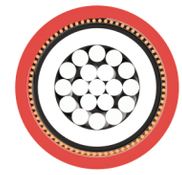
8.7/15 kV XLPE insulated single core cables with aluminium conductor





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

R: Stranded Conductor Rigid

Standards: IEC 60502 - 2, VDE 0276 - 620

Technical Data

Max. operating temperature	: 90 °C
Max. short circuit temperature	: 250 °C (max. 5 sec.)
Rated voltage	: 8.7/15 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)			
									In ground at 20 °C		In air at 30 °C	
mm²	mm	kg/km	m	ohm/km	ohm/km	*** mH/km	*** mH/km	µF/km	***	***	***	***
1x35/16	25,0	650	1000	0,868	1,1110	0,666	0,401	0,181	-	-	-	-
1x50/16	26,5	750	1000	0,641	0,8205	0,640	0,383	0,201	194	171	215	181
1x70/16	28,0	850	1000	0,443	0,5670	0,609	0,362	0,229	236	209	269	226
1x95/16	29,5	950	1000	0,320	0,4096	0,585	0,346	0,255	281	249	327	275
1x120/16	31,5	1.100	1000	0,253	0,3238	0,567	0,336	0,278	318	283	377	317
1x150/25	33,0	1300	1000	0,206	0,2637	0,549	0,325	0,302	350	316	424	359
1x185/25	35,0	1450	1000	0,164	0,2099	0,534	0,317	0,328	393	358	485	412
1x240/25	37,5	1700	1000	0,125	0,1600	0,514	0,307	0,363	453	416	573	489
1x300/25	40,0	1900	1000	0,100	0,1280	0,497	0,298	0,398	507	469	652	559
1x400/35	43,5	2400	1000	0,0778	0,1009	0,477	0,289	0,447	559	532	741	651
1x500/35	46,5	2800	1000	0,0605	0,0774	0,461	0,282	0,491	622	599	838	744
1x630/35	50,0	3250	1000	0,0469	0,0600	0,455	0,275	0,543	697	679	957	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