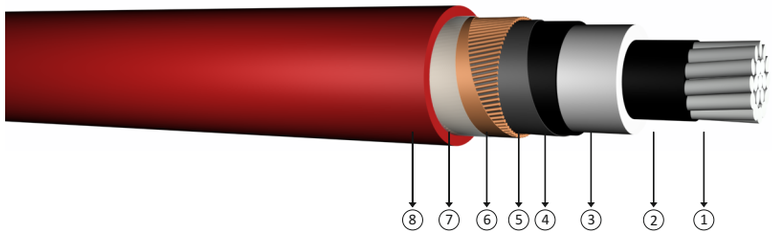
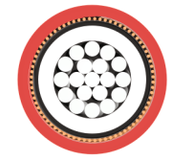
3.6/6 kV XLPE insulated single core cables with aluminium conductor





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	: 3.6/6 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	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