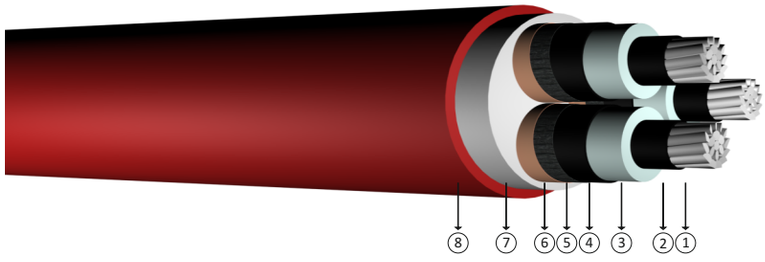
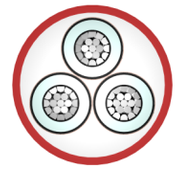
5.8/10 kV (6/10 kV) or 6.35/11 kV XLPE insulated three core cables with aluminium conductor





Code: NA2XSE2Y, AL/XLPE/CTS/PE

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	: 5.8/10 kV (6/10 kV) 6.35/11 kV
Min. bending radius	: 15 x D
D	: Cable outer diameter

Application

These are cables with low dielectric losses used in energy networks with sudden load changes. Laid in residential or industrial areas, underground or in ducts.

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. Filler
8. PE 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	Operation Inductance (approx)	Operation Capacitance (approx)	Current Carrying Capacity (A)	
mm ²	mm	kg/km	m	ohm/km	mH/km	µF/km	In ground at 20 °C	In air at 30 °C
3x35/16	46,5	2450	1000	0,868	0,374	0,189	-	-
3x50/16	49,5	2800	1000	0,641	0,355	0,209	162	160
3x70/16	53,0	3300	1000	0,443	0,336	0,236	199	199
3x95/16	57,5	3900	1000	0,320	0,320	0,263	238	242
3x120/16	61,5	4450	1000	0,253	0,308	0,291	271	280
3x150/25	64,5	5050	500	0,206	0,299	0,314	304	318
3x185/25	68,5	5700	500	0,164	0,290	0,341	345	365
3x240/25	75,0	6900	500	0,125	0,278	0,387	401	431
3x300/25	80,0	8000	500	0,100	0,270	0,422	453	494
3x400/35	88,0	9750	500	0,0778	0,261	0,475	517	569

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
Number of system : 1