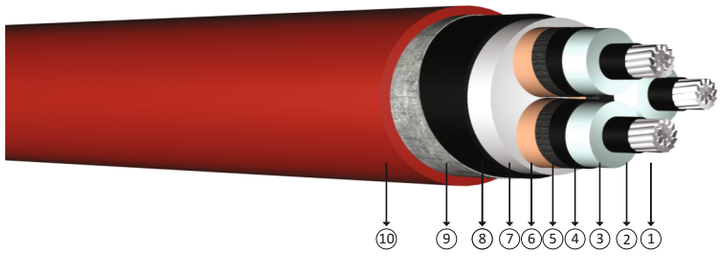
5.8/10 kV (6/10 kV) or 6.35/11 kV XLPE insulated aluminium tape armoured, three core cables with aluminium conductor



Code: NA2XSEYB(A)Y, AL/XLPE/CTS/PVC/ATA/PVC

R: Stranded Conductor Rigid

Standards: IEC 60502 - 2, VDE 0276-620, BS 6622

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. Inner sheath
9. Aluminium tape
10. 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	Operation Inductanse (approx)	Operation Capaticance (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	51,5	3800	1000	0,868	0,374	0,189	-	-
3x50/16	54,5	4200	1000	0,641	0,355	0,209	162	160
3x70/16	58,5	4900	1000	0,443	0,336	0,236	199	199
3x95/16	63,0	5700	1000	0,320	0,320	0,263	238	242
3x120/16	67,0	6400	500	0,253	0,308	0,291	271	280
3x150/25	70,0	7000	500	0,206	0,299	0,314	304	318
3x185/25	74,0	7900	500	0,164	0,290	0,341	345	365
3x240/25	81,0	9300	500	0,125	0,278	0,387	401	431
3x300/25	88,0	11500	250	0,100	0,270	0,422	453	494
3x400/35	96,0	13500	250	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