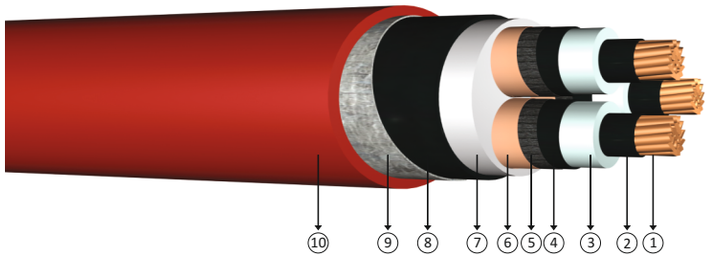
5.8/10 kV (6/10 kV) or 6.35/11 kV XLPE insulated aluminium tape armoured, three core cables with copper conductor



Code: N2XSEYB(A)Y, CU/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 6.35/11 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 copper conductors
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 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	51,5	3950	1000	0,524	0,374	0,189	178	173
3x50/16	54,5	4650	1000	0,387	0,355	0,209	210	206
3x70/16	58,5	5600	500	0,268	0,336	0,236	256	257
3x95/16	63,0	6800	500	0,193	0,320	0,263	307	313
3x120/16	67,0	7900	500	0,153	0,308	0,291	349	360
3x150/25	70,0	9100	500	0,124	0,299	0,314	392	410
3x185/25	74,5	10550	250	0,0991	0,290	0,341	443	469
3x240/25	81,5	13000	250	0,0754	0,278	0,387	513	553
3x300/25	88,0	15900	250	0,0601	0,270	0,422	576	635
3x400/35	96,0	19800	250	0,0470	0,261	0,475	650	731

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