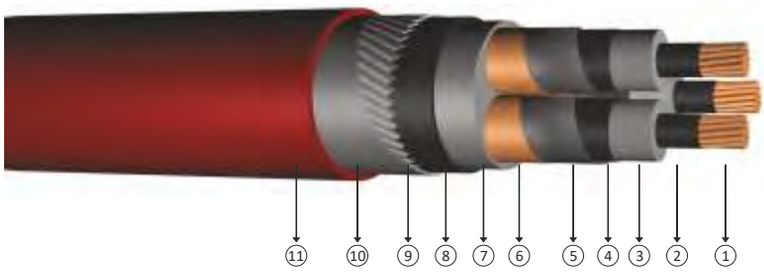
12/20 kV or 12,7/22 kV XLPE insulated, round aluminium wire armoured, three core cables with copper conductor



Code: N2XSEYR(A)Y, CU/XLPE/CTS/PVC/AWA/PVC

R: Stranded Conductor

Standards: IEC 60502-2, BS 6622

Technical Data

Max. operating temperature : 90°C
Max. short circuit temperature : 250°C (max. 5 sec.)
Rated voltage : 12/20 kV
12,7/22 kV
Min. bending radius : 20 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. Thermoplastic filler
8. PVC inner sheath
9. Aluminium round wire
10. PP Tape
11. PVC outer sheath

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)	
mm²	mm	kg/km	m	Ω/km	mH/km	µF/km	In ground at 20°C	In air at 30°C
3x35/16	66,0	6550	500	0,524	0,416	0,141	183	182
3x50/16	69,0	7400	500	0,387	0,395	0,155	216	217
3x70/16	72,0	8500	500	0,268	0,373	0,172	264	269
3x95/16	78,0	10950	250	0,193	0,355	0,191	316	326
3x120/16	82,0	12300	250	0,153	0,340	0,209	360	377
3x150/25	86,0	13850	250	0,124	0,329	0,225	404	426
3x185/25	90,0	15500	250	0,0991	0,319	0,243	457	488
3x240/25	96,0	18250	250	0,0754	0,304	0,273	532	576
3x300/25	102,0	20850	200	0,0601	0,295	0,296	599	654
3x400/35	110,0	25300	200	0,0470	0,284	0,331	685	750

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