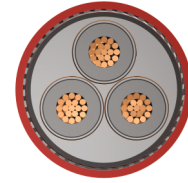
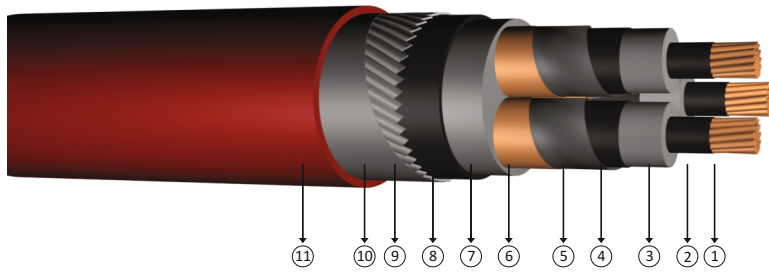


# 12/20 kV or 12.7/22 kV XLPE insulated round aluminium wire armoured, three core cables with copper conductor



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

R: Stranded Conductor 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 : 12/20 kV  
 12.7/22 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 round wire
- 10 Polyester tape
- 11 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 <sup>2</sup>	mm	kg/km	m	ohm/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