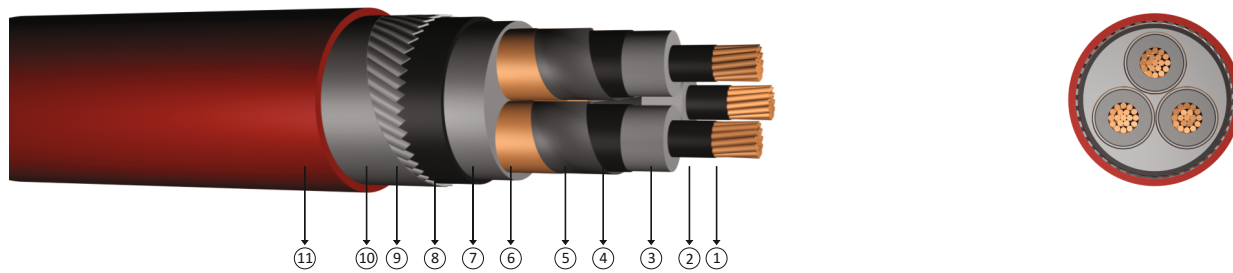


## 3.6/6 kV XLPE insulated round aluminium wire armoured, three core cables with copper conductor



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

R: Stranded Conductor Rigid

**Standards:** IEC 60502 - 2, VDE 0276 - 620

### Technical Data

Max. operating temperature : 90 °C  
 Max. short circuit temperature : 250 °C (max. 5 sec.)  
 Rated voltage : 3.6/6 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	50,5	4400	1000	0,524	0,352	0,229	176	171
3x50/16	54,0	5900	500	0,387	0,336	0,255	208	196
3x70/16	58,0	7000	500	0,268	0,318	0,288	255	249
3x95/16	62,0	8300	500	0,193	0,303	0,324	307	307
3x120/16	66,5	9600	500	0,153	0,292	0,359	353	353
3x150/25	70,0	9900	500	0,124	0,284	0,388	396	406
3x185/25	74,0	11400	250	0,0991	0,276	0,424	447	464
3x240/25	82,0	15100	250	0,0754	0,267	0,469	523	548
3x300/25	89,0	17950	250	0,0601	0,263	0,486	581	632
3x400/35	98,0	22200	250	0,0470	0,257	0,521	653	726

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