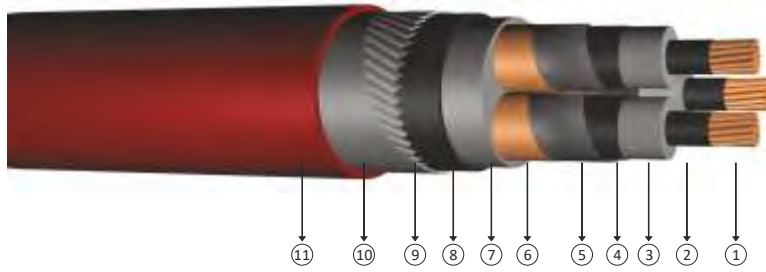


## 18/30 kV or 19/33 kV XLPE insulated, round aluminium wire armoured, three core cables with copper conductor



**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 : 18/30 kV  
 19/33 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)	
mm <sup>2</sup>	mm	kg/km	m	Ω/km	mH/km	μF/km	In ground at 20°C	In air at 30°C
3x35/16	79,0	9750	500	0,5240	0,457	0,114	183	182
3x50/16	82,5	10750	250	0,3870	0,434	0,124	216	217
3x70/16	86,5	12000	250	0,2680	0,410	0,137	264	269
3x95/16	90,5	13500	250	0,1930	0,389	0,150	316	326
3x120/16	95,0	14950	250	0,1530	0,372	0,163	360	377
3x150/25	98,0	16400	250	0,1240	0,360	0,174	404	426
3x185/25	102,0	18200	250	0,0991	0,348	0,188	457	488
3x240/25	109,5	21250	200	0,0754	0,331	0,209	532	576

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