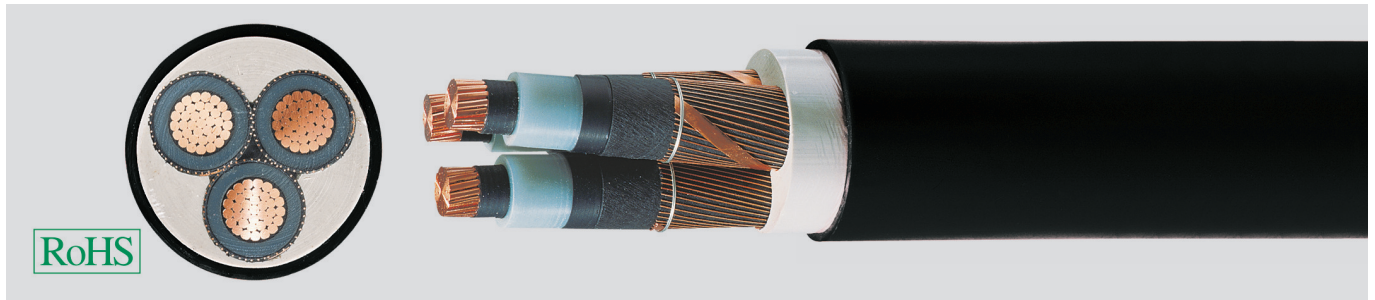


N2XSEH 3 x ... 6/10kV XLPE-insulated, halogen-free



Technical data

- Three core XLPE-insulated power cables to DIN VDE 0276 and IEC 60502
- **Temperature range** during installation up to -20°C
- **Operating temperature** max. +90°C
- **Short circuit temperature** core +250°C screen + 350°C (short circuit duration max. 5 s)
- **Nominal voltages** U_0/U 6/10 kV
- **Operating voltages** max. 12 kV
- **Test voltages** 15 kV
- **Test voltages d.c.** 48 kV
- **Minimum bending radius** 15x cable \emptyset
- **Tests** acc. to DIN VDE 0276 and IEC 60502

Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.2, multi-wire, BS 6360 cl.2, IEC 60228 cl.2
- Inner semi-conducting coating
- Core insulation of cross-linked Polyethylene (XLPE)
- Outer extrusion of semi-conducting coating spliced with the XLPE-insulation
- Conductive wrapping
- Screen: Braiding of copper wires with one or two tapes applied helically
- 3 cores stranded
- Extruded sheath over three cores
- outer sheath halogen-free
- Sheath colour black
- LS0H = Low Smoke Zero Halogen

Properties

- Halogen-free, no liberation of corrosive or toxic gases
- Limited propagation of fire
- Low smoke development, Ozone resistant
- **Installation notes** To guarantee an optimum on operating reliability the extruded semi-conductive layer is spliced with the insulation for long duration. For this reason we recommend a peeling tool for installation.

Tests

- self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- Corrosiveness of combustion gases acc. to DIN VDE 0482 part 267, DIN EN 50267-2-2, IEC 60754-2 (equivalent DIN VDE 0472 part 813)
- Halogen-free acc. to DIN VDE 0482 part 267, DIN EN 50267-2-1, IEC 60754-1 (equivalent DIN VDE 0472 part 815)
- Smoke density acc. to DIN VDE 0482 part 1034-1+2, DIN EN 61034-1+2, IEC 61034-1+2, BS 7622 part 1+2 (previously DIN VDE 0472 part 816)

Note

- rm = round conductor, multi-wire
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Application

Suitable for installation in indoors and in cable ducts, outdoors as well as for laying on racks for industrial and switching systems and power plants. Limited use when buried in the earth if the outer sheath could be damaged by high mechanical stress. The inner conducting layer between the conductor and the XLPE insulation and the firmly bonded outer conducting layer on the XLPE insulation assures a construction free of partial discharges with high operational reliability.

Part no.	No. cores x cross-sec. mm ²	Insulation thickness mm	Screen cross-sec. mm ²	Sheath thickness Nominal value mm	Outer \emptyset app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
38041	3 x 50 rm / 16	3,4	16	2,5	50,0	1670,0	3800,0	1
38042	3 x 70 rm / 16	3,4	16	2,5	54,0	2250,0	4650,0	2/0
38043	3 x 95 rm / 16	3,4	16	2,5	58,0	2995,0	5700,0	3/0
38044	3 x 120 rm / 16	3,4	16	2,5	61,0	3715,0	6800,0	4/0
38045	3 x 150 rm / 25	3,4	25	2,5	65,0	4635,0	7900,0	300 kcmil
38046	3 x 185 rm / 25	3,4	25	2,5	68,0	5645,0	9350,0	350 kcmil
38047	3 x 240 rm / 25	3,4	25	2,5	74,0	7274,0	11450,0	500 kcmil

Dimensions and specifications may be changed without prior notice. (RQ03)