

N2XOH-PC 0,6/1 kV Triple; METRIUM



CONTACT

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Special application in places with poor ventilation and places public attendance high.

APPLICATION

In low voltage power distribution networks. Special application in places with poor ventilation, direct application in places with public attendance high. It can be installed in ducts, ladders or cable trays, in dry, humid or wet environments.

STANDARDS

PRODUCT

NTP-IEC 60228; NTP-IEC 60502-1; IEC 60228; IEC 60502-1

TEST

IEC 60332-1-2; IEC 60332-3-24; IEC 60754-1; IEC 60754-2; IEC 61034-2; UL 2556

CONSTRUCTION

1. Conductor: Flexible soft copper.
2. Insulation: Cross linked polyethylene XLPE.
3. Outer sheath: Halogen free thermoplastic compound HFFR.
4. Tape: Polyester tape.

MAIN CHARACTERISTICS

The cable has excellent electric properties. The cross-linked polyethylene insulation allows a higher power capacity current under any operation conditions, lower dielectric losses, high insulation resistance.

The outer sheath has the following characteristics: Fire retardant, zero emission dense smoke and halogen free.

The new attributes of this product are:

Greater flexibility, helping in the installation and handling process, due to its new configuration of conductors and flexible raw materials for insulations and coating.

Greater protection to the external cover, against dragging during the process of installation on non-smooth surfaces, guaranteeing compliance with the thickness of the same.

CROSS SECTION

From 120 mm² up to 500 mm².

MARKING IN EACH PHASE

INDECO BY NEXANS N2XOH-PC 0,6/1 kV - Section - Year - (- sequential length m. || sequential length m. +).



Halogen free
Low content Halogen IEC
60754-1



Gases corrosivity
Low Corrosivity IEC
60754-2



Smoke density
Low Smoke Emission IEC
61034-2



Flame retardant
IEC 60332-1-2; FT1



Fire retardant
EN IEC 60332-3-24 (cat
C)



Maximum operating
temperature
90 °C

PACKING

Non returnable wooden reels.

COLOUR

Insulation: Natural.

Outer sheath: Black, red and white or black, red and blue.

PRODUCT STANDARDS

NTP-IEC 60228:Conductors of insulated cables.

NTP-IEC 60502-1:Power cables with extruded insulation and their accessories for rated voltages from 1 kV and 3 kV.

IEC 60228:Conductors of insulated cables.

IEC 60502-1:Power cables with extruded insulation and their accessories for rated voltages from 1 kV and 3 kV.

TEST STANDARDS

IEC 60332-1-2: Test for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW pre-mixed flame.

IEC 60332-3-24:Test for vertical flame spread of vertically-mounted bunched wires or cables - Category C.

IEC 60754-1:Test on gases evolved during combustion of materials from cables. **Part 1:** Determination of the halogen acid gas content.

IEC 60754-2:Test on gases evolved during combustion of materials from cables. **Part 2:** Determination of acidity (by pH measurement) and conductivity.

IEC 61034-2: Measurement of smoke density of cables burning under defined conditions.

UL 2556: Wire and Cable Test Methods. **Section 9.3:** FT1 (Vertical-Specimen) Flame Test.

CHARACTERISTICS

Construction characteristics

Conductor material	Soft copper
Insulating material	XLPE
Individual sheath	Halogen free thermoplastic compound
Halogen free	Low content Halogen IEC 60754-1
Sheath colour	Individual sheath White-Black-Red

Electrical characteristics

Dielectric strength	3.5 kV
Time of application Dielectric strength core to screen AC	5 min.

Usage characteristics

Gases corrosivity	Low Corrosivity IEC 60754-2
Smoke density	Low Smoke Emission IEC 61034-2
Flame retardant	IEC 60332-1-2; FT1
Fire retardant	EN IEC 60332-3-24 (cat C)
Metric marking	Double marking of sequential footage METRIUM

Usage characteristics

Maximum operating temperature	90 °C
Short-circuit max. conductor temperature	250 °C

DIMENSIONAL DATA

Cross section [mm ²]	Conductor diam. [mm]	Min. insulation thick. [mm]	Min. outer sheath thick. [mm]	Height [mm]	Width [mm]	Approx. weight [kg/km]
120	12.8	1.2	1.0	17.6	52.4	3569
150	14.2	1.4	1.1	19.6	58.4	4359
185	18.0	1.6	1.2	24	71.7	5220
240	20.7	1.7	1.2	26.9	80.4	6820
300	23.2	1.8	1.3	29.9	89.3	8475
400	26.5	2.0	1.5	34	101.6	11103
500	30.3	2.2	1.6	38.5	115.1	14380

ELECTRICAL DATA

Cross section [mm ²]	Max. DC Resist. Cond. 20°C [Ohm/km]	Perm. Current buried/duct 20°C [A]	Perm. current rating in air 30°C - flat formation [A]	current rating in air 30°C - trefoil [A]	Nominal capacitance [pF/m]
120	0.153	223	400	383	778.0
150	0.124	251	464	444	747.0
185	0.106	281	533	510	803.0
240	0.0801	324	634	607	866.0
300	0.0641	365	736	703	916.0
400	0.0486	433	868	823	944.0
500	0.0384	501	998	946	983.0

PRODUCT LIST

Nexans Ref.	Country Ref.	Name	Approximate weight [kg/km]
☎ P00040357-2	10055502	N2XOH-PC 0,6/1 kV 3-1x150 mm2	4359
☎ P00050734-0	10056345	N2XOH-PC 0,6/1 kV 3-1x500 mm2	14380
☎ P00040522-1	10055663	N2XOH-PC 0,6/1 kV 3-1x300 mm2	8475
☎ P00040709-0	10056344	N2XOH-PC 0,6/1 kV 3-1x400 mm2	11103
☎ P00040359-2	10055505	N2XOH-PC 0,6/1 kV 3-1x240 mm2	6820
☎ P00040358-2	10055503	N2XOH-PC 0,6/1 kV 3-1x185 mm2	5220
☎ P00040356-2	10055500	N2XOH-PC 0,6/1 kV 3-1x120 mm2	3569

☎ = Make to order, ☒ = In stock,

**CALCULATION OF CURRENT CONDITION: COPPER CONDUCTOR TRIPLE L.V.;
HALOGEN FREE 90°C****CURRENT CAPACITY VALUES AND CURRENT CALCULATION CONDITIONS BASED ON IEC 60364-5-52:2009 :**

TABLE B.52.5 (METHOD D1: Buried duct in contact).

TABLE B.52.12 (METHOD F: Air in flat formation and in contact).

TABLE B.52.12 (METHOD F: Air in triangular formation).

Maximum conductor temperature : 90°C.

Ambient air temperature : 30°C.

Ground temperature : 20°C.

Depth of laying up to: 0,7 m.

Thermal resistivity of soil : 2,5 K.m/W.