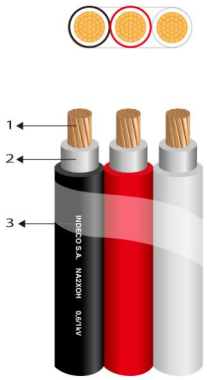
N2XOH 0,6/1 kV Double or Triple; METRIUM

N2XOH 0,6/1 kV 3-1x50 mm2



Nexans Ref.: P00007624-27
Country Ref.: 10007459

CONTACT

Local Sales
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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 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: Soft copper, class 2.

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, low emission dense smoke and halogen.

CROSS SECTION

From 6 mm2 up to 500 mm2.

MARKING

INDECO BY NEXANS N2XOH 0,6/1 kV (3 or 2) - 1 x Section - Year (- sequential length m. || sequential length m. +).

PACKING

Non returnable wooden reels.

COLOUR

Insulation: Natural.

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


Conductor flexibility
Class 2 IEC 60228


Rated Voltage Uo/U (Um)
0.6/ 1 (1.2) kV


Oil resistance
ICEA S-95-658


U.V resistance
UL 2556 - Sunlight Resistance


Maximum operating temperature
90 °C



Halogen free
Low content Halogen IEC 60754-1


Gases toxicity
Zero toxicity to IEC 60684-2


Gases corrosivity
Low Corrosivity IEC 60754-2

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

PRODUCT STANDARDS

NTP-IEC 60228: Conductors of insulated cables.

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

IEC 60228: Conductors of insulated cables.

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

TESTING 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: Determination of degree of acidity of gases evolved during the combustion of materials taken from electric cables by measuring pH 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
Conductor flexibility	Class 2 IEC 60228
Conductor shape	Compact stranded
Insulation	XLPE
Sheath colour	Individual sheath White-Black-Red
With Green/Yellow core	No
Dimensional characteristics	
Number of cores	3
Conductor cross-section	50 mm²
Conductor diameter	7.9 mm
Total number of wires	19
Minimum insulation thickness	1.0 mm
Minimum outer sheath thickness	1.4 mm
Height	12.1 mm
Width	35.9 mm
Approximate weight	1471 kg/km
Electrical characteristics	
Rated Voltage Uo/U (Um)	0.6/ 1 (1.2) kV
Dielectric strength	3.5 kV
Max. DC resistance of the conductor at 20°C	0.387 Ohm/km

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Electrical characteristics	
Time of application Dielectric strength core to screen AC	5 min.
Nominal capacitance	589.0 pF/m
Perm. current rating in air 30°C - flat formation	216 A
Perm. current rating in air 30°C - trefoil formation	207 A
Permissible current rating buried/duct 20°C	135 A
Usage characteristics	
Oil resistance	ICEA S-95-658
Metric marking	Double marking of sequential footage METRIUM
U.V resistance	UL 2556 - Sunlight Resistance
Maximum operating temperature	90 °C
Overload maximum core temperature	130 °C
Short-circuit max. conductor temperature	250 °C
Midspan	No
Fire safety characteristics	
Halogen free	Low content Halogen IEC 60754-1
Gases toxicity	Zero toxicity to IEC 60684-2
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)

CALCULATION OF CURRENT CONDITION: COPPER CONDUCTOR DOUBLE OR TRIPLE L.V.; 90°C

CURRENT CAPACITY VALUES AND CURRENT CALCULATION CONDITIONS BASED ON IEC 60364-5-52:2009 :

TABLE B.52.5 (METHOD D1: Buried ducts in triangular formation).
TABLE B.52.5 (METHOD D2: Buried in triangular formation).
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: 0,8 m.
Thermal resistivity of soil : 2,5 K.m/W.

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