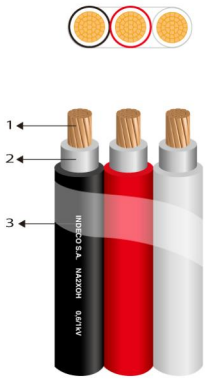
# N2XOH 0,6/1 kV Double or Triple; METRIUM

**N2XOH 0,6/1 kV 3-1x95 mm2**




**Nexans Ref.:** P00008095-23
**Country Ref.:** 10007461

## CONTACT

Local Sales
ventas.peru@nexans.com

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 | 95 mm² |
| Conductor diameter | 11.2 mm |
| Total number of wires | 19 |
| Minimum insulation thickness | 1.1 mm |
| Minimum outer sheath thickness | 1.0 mm |
| Height | 15.8 mm |
| Width | 47 mm |
| Approximate weight | 2819 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 | 0.193 Ohm/km |



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| | |
|---|---|
| **Electrical characteristics** | |
| Time of application Dielectric strength core to screen AC | 5 min. |
| Nominal capacitance | 744.0 pF/m |
| Perm. current rating in air 30°C - flat formation | 342 A |
| Perm. current rating in air 30°C - trefoil formation | 328 A |
| Permissible current rating buried/duct 20°C | 197 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 | |
| **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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