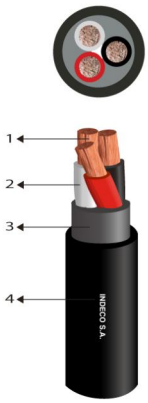
# NPT 0,6/1 kV AWG/kcmil

**NPT 0,6/1 kV 3x8 AWG**




**Nexans Ref.:** P00010922-8
**Country Ref.:** 10000797

## CONTACT

Local Sales
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## APPLICATION

In apparatus or equipment subject to movement, winding or vibrations and in all type of mobile installations.

## STANDARDS

**PRODUCT**

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

**TEST**

IEC 60332-1-2; UL 2556; IEC 60811-401; IEC 60811-402; IEC 60811-501; IEC 60811-504; IEC 60811-505; IEC 60811-506; IEC 60811-508; IEC 60811-509

## CONSTRUCTION

1. Conductor: Flexible soft copper, class 5.

2. Insulation: Compound polyvinyl chloride PVC.

3. Filler: Flexible compound polyvinyl chloride PVC.

4. Outer sheath: Flexible compound polyvinyl chloride PVC.

## MAIN CHARACTERISTICS

Great flexibility, resistance to abrasion and moisture, adequate resistance to oils. Flame retardant.

## GAUGE

From 8 AWG up to 2/0 AWG.

## MARKING

INDECO S.A. NPT 0,6/1 kV - (Nb Cores x Gauge) - FB - Year -(- sequential length m. || sequential length m. +).

## PACKING

Non returnable wooden reels.

## COLOUR

Insulation: See core identification.

Outer sheath: Black.

Conductor flexibility
**Flexible class 5**

Lead free
**Yes**

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

Cable flexibility
**Excellent**

Oil resistance
**Good**

Maximum operating temperature
**80 °C**

Flame retardant
**IEC 60332-1-2; FT1**



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.

# NPT 0,6/1 kV AWG/kcmil

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## 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.

## 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.

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

**IEC 60811-401:**Thermal ageing methods - Ageing in an air oven.

**IEC 60811-402:**Water absorption test.

**IEC 60811-501:**Test for determining the mechanical properties of insulating and sheating.

**IEC 60811-504:**Bending test at low temperature for insulation and covers.

**IEC 60811-505:**Low temperature elongation test for insulations and covers.

**IEC 60811-506:**Impact test at low temperature for insulations and covers.

**IEC 60811-508:**High temperature pressure tests for insulations and covers.

**IEC 60811-509:**Tests of resistance to cracking of the insulations and covers (thermal shock).

## CHARACTERISTICS

| | |
|---|---|
| **Construction characteristics** | |
| Conductor material | Soft copper |
| Conductor flexibility | Flexible class 5 |
| Insulating material | PVC |
| Outer sheath | PVC Flexible |
| Sheath colour | Black |
| Lead free | Yes |
| Conductor shape | Circular |
| Insulation | PVC |
| Insulation colour | White + Black + Red |
| With Green/Yellow core | No |
| **Dimensional characteristics** | |
| Number of cores | 3 |
| Conductor cross-section (AWG/KCMIL) | 8 AWG |
| Conductor diameter | 3.9 mm |
| Minimum insulation thickness | 1.0 mm |
| Minimum outer sheath thickness | 1.2 mm |
| Diameter over Sheath | 15.7 mm |
| Approximate weight | 456 kg/km |



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# NPT 0,6/1 kV AWG/kcmil

**NPT 0,6/1 kV 3x8 AWG**

| | |
|---|---|
| **Dimensional characteristics** | |
| Conductor cross-section | 8.37 mm² |
| **Electrical characteristics** | |
| Rated Voltage Uo/U (Um) | 0.6/ 1 (1.2) kV |
| Dielectric strength | 3.5 kV |
| Time of application Dielectric strength core to screen AC | 5 min. |
| Max. DC resistance of the conductor at 20°C | 2.25 Ohm/km |
| Nominal capacitance | 1032.0 pF/m |
| Perm current rating in air 30°C | 44 A |
| **Mechanical characteristics** | |
| Cable flexibility | Excellent |
| **Usage characteristics** | |
| Oil resistance | Good |
| Maximum operating temperature | 80 °C |
| Reference | 03 |
| Overload maximum core temperature | 100 °C |
| Short-circuit max. conductor temperature | 160 °C |
| **Fire safety characteristics** | |
| Flame retardant | IEC 60332-1-2; FT1 |

## CALCULATION OF CURRENT CONDITION NPT

### CALCULATION OF CURRENT CONDITION

Current capacity up to 3 loaded conductors, where the fourth (4th) conductor is a neutral of a balanced 3 phase of a 4 wire system.

Maximum conductor temperature : 80°C.
Ambient air temperature : 30°C.



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