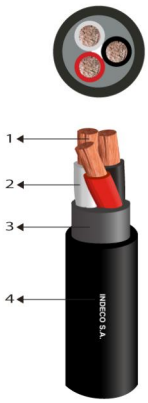
NPT 0,6/1 kV AWG/kcmil

NPT 0,6/1 kV 3x6 AWG



Nexans Ref.: P00001343-8
Country Ref.: 10000796

CONTACT

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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

NPT 0,6/1 kV 3x6 AWG

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)	6 AWG
Conductor diameter	4.9 mm
Minimum insulation thickness	1.0 mm
Minimum outer sheath thickness	1.2 mm
Diameter over Sheath	17.9 mm
Approximate weight	644 kg/km

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NPT 0,6/1 kV AWG/kcmil

NPT 0,6/1 kV 3x6 AWG

Dimensional characteristics	
Conductor cross-section	13.3 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	1.41 Ohm/km
Nominal capacitance	1246.0 pF/m
Perm current rating in air 30°C	56 A
Mechanical characteristics	
Cable flexibility	Excellent
Usage characteristics	
Oil resistance	Good
Maximum operating temperature	80 °C
Reference	04
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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