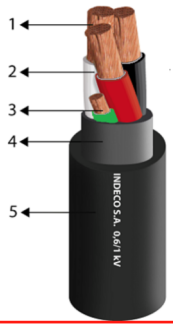
RETFLEX N2XY 0,6/1 kV Multi-core with Insulated Grounding Conductor; METRIUM

RETFLEX N2XY 0,6/1 kV 3x240+1x120mm2





Nexans Ref.: P00012410-8
Country Ref.: 10045071

CONTACT

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APPLICATION

General application as power cable. In low voltage distribution power networks, industrial installations, in buildings and operation stations. Indoor and outdoor areas (trays, gutters, staples). It can be installed in ducts, in dry or wet locations.

STANDARDS

PRODUCT

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

TEST

IEC 60332-1-2; IEC 60811-401; IEC 60811-402; IEC 60811-409; IEC 60811-501; IEC 60811-502; IEC 60811-504; IEC 60811-505; IEC 60811-506; IEC 60811-507; IEC 60811-508; IEC 60811-509; UL 2556

CONSTRUCTION

1. Conductor: Flexible soft copper, class 5.

2. Insulation: Cross linked polyethylene XLPE.

3. Insulated grounding conductor: Flexible soft copper, class 5 - XLPE

4. Filler: Flexible compound polyvinyl chloride PVC (when applicable).

5. Outer sheath: Flexible compound polyvinyl chloride PVC.

MAIN CHARACTERISTICS

Good electrical and mechanical properties. Cross-linked polyethylene insulation allows greater power capacity under any operating condition, minimum dielectric losses, high insulation resistance. The PVC outer sheath allows an adequate resistance to greases, oils, abrasion and sunlight. Flame retardant.

CROSS SECTION

From 4 mm2 up to 300 mm2.

MARKING

INDECO BY NEXANS RETFLEX N2XY 0,6/1 kV - Nb. Cores x section + Grounding Cond. Section - 90°C - Year (- sequential length m. || sequential length m. +) .

PACKING

Non returnable wooden reels.

Lead free	Conductor flexibility	Rated Voltage Uo/U (Um)	Cable flexibility	Oil resistance	Water proof	U.V resistance	Maximum operating temperature
Yes	**Class 5 IEC 60228**	**0.6/ 1 (1.2) kV**	**Excellent**	**Good**	**AD8**	**UL 2556 - Sunlight Resistance**	**90 °C**

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.

COLOUR

Insulation: See insulation color.

Outer sheath: Black.

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.

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

IEC 60811-402: Water absorption test.

IEC 60811-409: Mass loss test for thermoplastic insulations and covers.

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

IEC 60811-502: Shrinkage test for isolations.

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 60811-507: Hot elongation test for crosslinked materials.

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).

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
Outer sheath	PVC Flexible
Sheath colour	Black
Lead free	Yes
Conductor flexibility	Class 5 IEC 60228
Conductor shape	Circular
Insulation	XLPE
Insulation colour	White + Black + Red + yellow/green

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RETFLEX N2XY 0,6/1 kV Multi-core with Insulated Grounding Conductor; METRIUM

RETFLEX N2XY 0,6/1 kV 3x240+1x120mm2

Construction characteristics	
With Green/Yellow core	No
Dimensional characteristics	
Number of cores	3
Conductor cross-section	240 mm²
Conductor diameter	20.9 mm
Minimum insulation thickness	1.7 mm
Ground conductor cross-section	120 mm²
Minimum Insulation thickness of ground cable	1.2 mm
Minimum outer sheath thickness	2.2 mm
Diameter over Sheath	60.9 mm
Approximate weight	9421 kg/km
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	0.0801 Ohm/km
Nominal capacitance	874.0 pF/m
Perm current rating in air 30°C	538 A
Perm. Current in duct 20°C	324 A
Permissible current rating buried 20°C	375 A
Mechanical characteristics	
Cable flexibility	Excellent
Usage characteristics	
Oil resistance	Good
Water proof	AD8
Metric marking	Double marking of sequential footage METRIUM
U.V resistance	UL 2556 - Sunlight Resistance
Maximum operating temperature	90 °C
Short-circuit max. conductor temperature	250 °C
Fire safety characteristics	
Flame retardant	IEC 60332-1-2; FT1

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CALCULATION OF CURRENT CONDITION: COPPER CONDUCTOR MULTI-CORE L.V.; 90°C

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

FOR TWO LOADED CONDUCTORS
TABLE B.52.3 - METHOD D1: Buried duct.
TABLE B.52.3 - METHOD D2: Buried.
TABLE B.52.12 - METHOD E2: Air.

FOR THREE LOADED CONDUCTORS
TABLE B.52.5 - METHOD D1: Buried duct in triangular formation.
TABLE B.52.5 - METHOD D2: Buried in triangular formation.
TABLE B.52.12 - METHOD E3: Air in tringular 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.

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