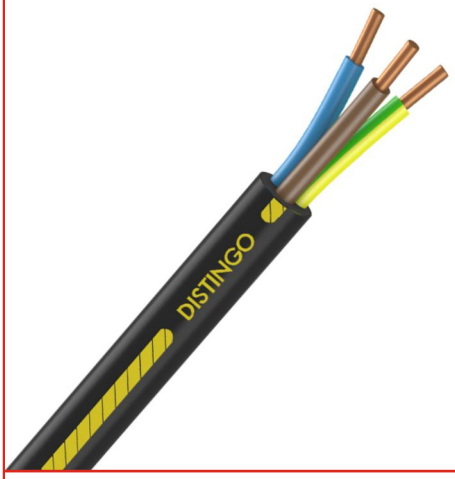
U-1000 R2V

U-1000 R2V DISTINGO 3G2.5 C100m

Contact
Building Products Information
contact.fr@nexans.com

Nexans Ref.: 10043898
Country Ref.: 01360421
EAN 13: 3427500002445

These U-1000 R2V cables with XLPE insulation and PVC outer sheath can be used in all low voltage power installations. Multiconductors cables are adapted to remote control and telecontrol installations. It could be installed outside without protection (UV resistance, AN3 according to NF C 15-100)



DESCRIPTION

Application

These U-1000 R2V cables with XLPE insulation and PVC outer sheath can be used in all low voltage power installations. Multiconductors cables are adapted to remote control and telecontrol installations.

It could be installed outside without protection (UV resistance, AN3 according to NF C 15-100)

Regarding DISTINGO™: It's the new U-1000 R2V LV power cables between 1.5 to 16² , from 1 to 5 conductors, with :

- 1 color line by cross-section
- and METRIUM™ metric marking is available for all packaging types (drum and coil)

Installation

These cables can be fixed on cable trays, within conduits or fixed to walls, installed outside. They also can be buried directly with extra mechanical protection.

Marking

S.Y. + NF - USE Factory n° U-1000 R2V n (x or G) s mm²

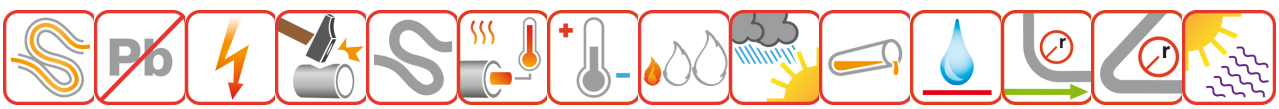
- n = number of cores
- s = section in mm²
- G = with Green-Yellow
- x = without Green-Yellow

For DISTINGO™, metric marking METRIUM™ :

For packed drums, the length can be directly read For coil and other drums (from cut to length), remaining length is easily calculated. For coil, make the difference between external and internal extremity; for drums make the difference between indication on sticks and external extremity.

DECLARATION OF PERFORMANCE

Eca



Conductor flexibility	Lead free	Rated Voltage Uo/U (Um)	Mechanical resistance to impacts	Cable flexibility	Max.conduct or temp.in service	Operating temp.	Flame retardant	Weather resistance	Chemical resistance	Water proof	Operation bending rad.	Static bending rad.	U.V resistance
Solid class 1	**Yes**	**0.6/ 1 (1.2) kV**	**-**	**Rigid**	**90 °C**	**-25 - 60 ° C**	**C2, NF C 32-070**	**Good**	**Accidental**	**Intermittent**	**150 mm**	**75 mm**	**AN3**

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Permissible current and voltage drop are given

a) in free air, sheltered from sun, on cable tray or bracket, on cable ladder, and spaced from the wall, temperature = 30°C.
b) buried with thermal resistivity of the ground 1Km/W, laying depth : 600 mm, temperature = 20°C.

If conditions are differents, apply correction factors from NF C 15-100 standard or equivalent national standard

Voltage drop

Calculated with cosj = 0,8

Conductor flexibility	Lead free	Rated Voltage Uo/U (Um)	Mechanical resistance to impacts	Cable flexibility	Max.conduct or temp.in service	Operating temp.	Flame retardant	Weather resistance	Chemical resistance	Water proof	Operation bending rad.	Static bending rad.	U.V resistance
Solid class 1	**Yes**	**0.6/ 1 (1.2) kV**	**-**	**Rigid**	**90 °C**	**-25 - 60 ° C**	**C2, NF C 32-070**	**Good**	**Accidental**	**Intermittent**	**150 mm**	**75 mm**	**AN3**

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CHARACTERISTICS

Construction characteristics	
Conductor flexibility	Solid class 1
Conductor material	Bare copper
Insulation	XLPE
Outer sheath	PVC
Sheath colour	Black
With Green/Yellow core	Yes
With smaller neutral conductor	No
Lead free	Yes
Dimensional characteristics	
Number of cores	3
Conductor cross-section	2.5 mm²
Approximate weight	140 kg/km
Maximum outer diameter	12.5 mm
Neutral conductor section (when smaller)	- mm²
Electrical characteristics	
Rated Voltage Uo/U (Um)	0.6/ 1 (1.2) kV
Max. DC resistance of the conductor at 20°C	7.41 Ohm/km
Permissible current rating in open air	36 A
Permissible current rating when buried	48 A
Voltage drop, 3 conductors	- V/A.km
Voltage drop, single phase	15.2 V/A.km
Mechanical characteristics	
Mechanical resistance to impacts	-
Cable flexibility	Rigid
Usage characteristics	
Max. conductor temperature in service	90 °C
Short-circuit max. conductor temperature	250 °C
Operating temperature, range	-25 - 60 °C
Flame retardant	C2, NF C 32-070
Weather resistance	Good
Chemical resistance	Accidental
Water proof	Intermittent
Packaging	Coil
Length	100 m
Laying operation bending radius	150 mm
Minimum static operating bending radius	75 mm
U.V resistance	AN3