

U-1000 (A)RGPFV RH C1 Fire retardant

U 1000 RGPFV RH C1 4G4

Contact

Market information
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Power and control cables armed with lead sheath 0.6/1kV, XP C 32-111, aliphatic and aromatic hydrocarbons resistant, are AD8 and AG4. These cables are fire retardant NF C 32070 C1.

DESCRIPTION

Applications

These power and control cables are used for electricity supply in **low voltage installation system**. They are well adapted to **underground use** in industrial applications, in moist areas, where **hydrocarbon and mechanical protections are needed**. The **lead sheath brings an enhanced resistance to aromatics hydrocarbons**.

Design

Conductor:

- Solid plain copper: 1.5 to 4 mm²
- Stranded plain copper or aluminium: 6 to 630 mm²

Insulation:

- Cross-linked polyethylene (XLPE)

Bedding (optional)

Inner sheath:

- Polyvinyl chloride (PVC) Colour: black

Lead cover

Armour:

- Paraffin-waxed crepe paper
- Double steel tape (STA)

Outer sheath:

- Polyvinyl chloride (PVC). Colour: black.

Core identification

- 2 to 5 cores: according to HD 308 S2
- > 5 cores: printed numbers
- > 5G cores: printed numbers + green/yellow core

Marking

U-1000 (A)RGPFV - RH Nber of cores and cross-section NF-USE 279 NFC 32070 C1
+ meter marking



STANDARDS

International IEC 60228;
IEC 60332-3-24

National NF C 32-070/C1;
XP C 32-111



Conductor flexibility
Solid class 1



Rated Voltage U₀/U
(Um)
0.6/1 kV



Mechanical resistance
to impacts
Good



Fire retardant
**NFC 32070 C1, IEC
60332-3-24**



Chemical resistance
**Aliphatic and
aromatic
hydrocarbons
resistant**



Max. conductor temp. in
service
90 °C



Operating temp.
-20 - 60 °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.

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CHARACTERISTICS

Construction characteristics

Conductor material	Copper
Conductor flexibility	Solid class 1
With Green/Yellow core	Yes
Lead Sheath	Yes

Dimensional characteristics

Number of cores	4
Conductor cross-section	4 mm ²
Neutral conductor section (when smaller)	- mm ²
Ground conductor cross-section	- mm ²
Diameter over inner sheath	9.6 mm
Diameter over lead sheath	11.8 mm
Diameter over armour	15.3 mm
Minimum outer diameter	15.3 mm
Maximum outer diameter	20.6 mm
Approximate weight	943 kg/km

Electrical characteristics

Rated Voltage U _o /U (U _m)	0.6/1 kV
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Mechanical characteristics

Mechanical resistance to impacts	Good
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Usage characteristics

Fire retardant	NFC 32070 C1, IEC 60332-3-24
Chemical resistance	Aliphatic and aromatic hydrocarbons resistant
Max. conductor temperature in service	90 °C
Operating temperature, range	-20 - 60 °C

SELLING AND DELIVERY INFORMATION

Other references available on request.

According to NF C 32111, these cables can be manufactured form U 1000 R2V. In such case the diameters and the weights will be a little bit different from the above ones.

Bending radius: 8x outer diameter
To be doubled during laying operations



Conductor flexibility
Solid class 1



Rated Voltage U_o/U (U_m)
0.6/1 kV



Mechanical resistance to impacts
Good



Fire retardant
NFC 32070 C1, IEC 60332-3-24



Chemical resistance
Aliphatic and aromatic hydrocarbons resistant



Max. conductor temp. in service
90 °C



Operating temp.
-20 - 60 °C

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