

# U-1000 (A)RGPFV RH C1 Fire retardant

U-1000 RGPFV RH C 3x70+50

## 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 mm<sup>2</sup>
- Stranded plain copper or aluminium: 6 to 630 mm<sup>2</sup>

#### 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

## CHARACTERISTICS

### Construction characteristics

Conductor material

Copper



Conductor flexibility  
**Stranded class 2**



Rated Voltage U<sub>0</sub>/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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### Construction characteristics

Conductor flexibility	Stranded class 2
With Green/Yellow core	No
Lead Sheath	Yes

### Dimensional characteristics

	3
Conductor cross-section	70 mm <sup>2</sup>
Neutral conductor section (when smaller)	50 mm <sup>2</sup>
Ground conductor cross-section	- mm <sup>2</sup>
Diameter over inner sheath	30.8 mm
Diameter over lead sheath	34 mm
Diameter over armour	38.9 mm
Minimum outer diameter	37.7 mm
Maximum outer diameter	47.5 mm
Approximate weight	5697 kg/km

### Electrical characteristics

Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> )	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  
**Stranded class 2**



Rated Voltage U<sub>0</sub>/U (U<sub>m</sub>)  
**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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