

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

U-1000 RGPFV-RH C1 8G1.5

## Contact

Market information  
industryprojects.business@nexans.com

- 0.6/1kV Power & control cables
- XP C 32-111
- With lead cover
- Armoured (double steel tape: STA)
- **Aliphatic and aromatic hydrocarbons resistant**
- **Classification AD8 and AG4**

## 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



Conductor flexibility  
**Solid class 1**



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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### CHARACTERISTICS

#### Construction characteristics

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

#### Dimensional characteristics

Number of cores	8
Conductor cross-section	1.5 mm <sup>2</sup>
Neutral conductor section (when smaller)	- mm <sup>2</sup>
Ground conductor cross-section	- mm <sup>2</sup>
Diameter over inner sheath	11.2 mm
Diameter over lead sheath	13.4 mm
Diameter over armour	16.9 mm
Minimum outer diameter	15.7 mm
Maximum outer diameter	21.4 mm
Approximate weight	1066 kg/km

#### Electrical characteristics

Rated Voltage U <sub>o</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  
Solid class 1



Rated Voltage U<sub>o</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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