

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

## U 1000 RGPFV RH C1 4G16

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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



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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### CHARACTERISTICS

#### Construction characteristics

Conductor material	Copper
Conductor flexibility	Stranded class 2
With Green/Yellow core	Yes
Lead Sheath	Yes

#### Dimensional characteristics

Number of cores	4
Conductor cross-section	16 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	16.9 mm
Diameter over lead sheath	19.3 mm
Diameter over armour	22.8 mm
Minimum outer diameter	21.3 mm
Maximum outer diameter	28.4 mm
Approximate weight	2052 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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