

U-1000 (A)RGPFV RH C1 Fire retardant

U-1000 ARGPFV-RH C1 3x50+35

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

CHARACTERISTICS

Construction characteristics

Conductor material

Aluminum



Conductor flexibility
Stranded class 2



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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Construction characteristics

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

Dimensional characteristics

| | |
|--|--------------------|
| Number of cores | 3 |
| Conductor cross-section | 50 mm ² |
| Neutral conductor section (when smaller) | 35 mm ² |
| Ground conductor cross-section | - mm ² |
| Diameter over inner sheath | 26.5 mm |
| Diameter over lead sheath | 29.5 mm |
| Diameter over armour | 33.0 mm |
| Minimum outer diameter | 31.6 mm |
| Maximum outer diameter | 42.2 mm |
| Approximate weight | 3061 kg/km |

Electrical characteristics

| | |
|---|----------|
| Rated Voltage U ₀ /U (U _m) | 0.6/1 kV |
|---|----------|

Mechanical characteristics

| | |
|----------------------------------|------|
| Mechanical resistance to impacts | Good |
|----------------------------------|------|

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 U₀/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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