# Nexans H07RN-F

**H07RN-F 3G2.5 cut to length**




**Nexans Ref.:** 10056143
**EAN 13:** 3427680009197

## FIRE PERFORMANCE CLASS

$E_{ca}$

Eca

## CONTACT

Building Products Information
contact.fr@nexans.com

Industrial flexible rubber cable range with an insulation and sheath in elastomers. Cables for heavy duty uses, Oil resistant and Flame retardancy according to IEC/EN 60332-1-2 standard.

## STANDARDS

**Product** EN 50525-2-21; HD 22.4; HD 516; IEC 60245-4 type 66; NF C32-102-4

## KEY CHARACTERISTICS

| | |
|---|---|
| **Dimensional characteristics** | |
| Maximum outer diameter | 14.0 mm |
| Minimum outer diameter | 10.9 mm |
| **Usage characteristics** | |
| Minimum dynamic operating bending radius | - mm |

## APPLICATION

H07RN-F flexible cable is intended for installations with moving equipments, electric appliances and for building sites also for motors in lifting appliances -machine tools, etc ... The cable may be rated up to 0,6/1 kV where the installation has built-in protection.

This range of cables is recommended in dry, damp or wet workshops, indoor and outdoor, for example in explosive atmosphere(as ATEX) according to regulation of the country and with some additional recommendations and also for industrial devices and agricultures workshops ...

This cable can be used in refrigerating installations.

## INSTALLATION

**Conductors laid up**

Assembled conductors.

**Nota**

Max continuous operating conductor temperature in normal use :

+60°C (in every case of mobile installation)

+85°C (in fixed and protected installation)

+200°C ( in short circuit )

Conductor flexibility
**Flexible class 5**

Lead free
**Yes**

Rated Voltage Uo/U (Um)
**450/750 V**

Mechanical resistance to impacts
**Very good**

Cable flexibility
**Flexible**

Chemical resistance
**Accidental**

Water proof
**Good**

Max.conductor temp.in service
**85 °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.

Permissible current rating is measured for an ambient temperature of 30°C and a maximum operating and conductor temperature of 60°C . For other temperature please refer to correction factors .

European Directive RoHS : Compliant

SY+ : French directive for lead free materials in materials.

## CHARACTERISTICS

| | |
|---|---|
| **Construction characteristics** | |
| Conductor flexibility | Flexible class 5 |
| Conductor material | Bare annealed copper stranded |
| Conductor shape | Circular |
| Insulation | Cross-linked synthetic elastomer type EI 4 |
| Lead free | Yes |
| Outer sheath | Cross-linked synthetic elastomer type EM 2 |
| Sheath colour | Black |
| With Green/Yellow core | Yes |
| **Dimensional characteristics** | |
| Conductor cross-section | 2.5 mm² |
| Number of cores | 3 |
| Approximate weight | 195 kg/km |
| Maximum outer diameter | 14.0 mm |
| Minimum outer diameter | 10.9 mm |
| **Electrical characteristics** | |
| Max. linear resistance, phase conductor | 7.98 Ohm/km |
| Permissible current rating in open air | 32 A |
| Rated Voltage Uo/U (Um) | 450/750 V |
| Voltage drop, single phase | 16.2 V/A.km |
| **Mechanical characteristics** | |
| Mechanical resistance to impacts | Very good |
| Cable flexibility | Flexible |
| **Usage characteristics** | |
| Packaging | Cut to length |
| Length | - m |
| Chemical resistance | Accidental |
| Water proof | Good |
| Max. conductor temperature in service | 85 °C |
| Minimum dynamic operating bending radius | - mm |
| Oil resistance | Yes |
| Operating temperature, range | -25 ... 55 °C |
| RoHS compliant | Yes |
| Short-circuit max. conductor temperature | 200 °C |
| Weather resistance | Very good |
| **Fire safety characteristics** | |
| Flame retardant | IEC 60332-1-2 |



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.

## ENVIRONMENTAL DATA

This product is part of the **low carbon** range of Nexans : a selection of products ensuring the reduction of the carbon footprint and subject to rigourous ecodesign criteria.




Nexans Low Carbon Selection Criteria: minimum integration of 10% recycled copper or aluminum and/or 100% low-carbon aluminum sourcing.

| | |
|---|---|
| **Global Carbon Footprint** | |
| Amount of $CO_2$ emitted Cradle to Gate phase (raw material collection and manufacturing), for the production of 1 km of cable. | **487.2 kg eq. $CO_2$** |
| **Recycled copper ratio** | |
| Percentage of recycled metal in the cable conductor. | **10%** |
| **Manufacturing site** | |
| Manufactured in France | **Bohain** |

*Environmental information coming from Nexans' Product Environmental Profile (PEP Ecopassport®)*

## SELLING AND DELIVERY INFORMATION

**Marking**
USE <'HAR> H07RN-F N (x or G) S mm²
N = number of cores

G = with Green-Yellow
x = without Green-Yellow
S = section in mm²



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.