

# H07RN-F

H07RN-F 7G1,5 MBH R50FILM/P0.75KM

## Contact

Building Products Information  
contact.fr@nexans.com

Nexans Ref.: 10056164

EAN 13: 3427680007773

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.

## DESCRIPTION

### 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

This cable can be installed in open air or be buried but with extra mechanical protection.

### Conductors laid up

Assembled conductors.

### Nota

Max continuous operating conductor temperature in normal use :

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

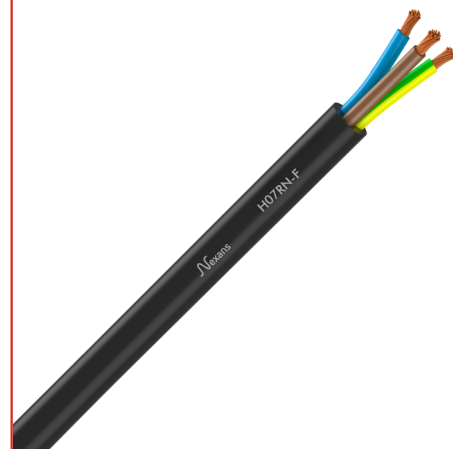
+85°C (in fixed and protected installation)

+200°C (in short circuit)

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.



## DECLARATION OF PERFORMANCE

Eca

## STANDARDS

**International** EN 50525-2-21;  
HD 22.4; HD 516;  
IEC 60245-4 type 66

**National** NF C 32-102-4



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**



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.

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## 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 | 1.5 mm <sup>2</sup> |
| Number of cores         | 7                   |
| Approximate weight      | 349 kg/km           |
| Maximum outer diameter  | 18.7 mm             |
| Minimum outer diameter  | 14.7 mm             |

### Electrical characteristics

|   |             |
|---|-------------|
| Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> ) | 450 / 750 V |
| Max. linear resistance, phase conductor           | 13.3 Ohm/km |
| Permissible current rating in open air            | 16 A        |
| Voltage drop, single phase                        | 23.3 V/A.km |

### Mechanical characteristics

|                                  |           |
|----------------------------------|-----------|
| Mechanical resistance to impacts | Very good |
| Cable flexibility                | Flexible  |

### Usage characteristics

|  |               |
|--|---------------|
| Packaging                                | -             |
| Length                                   | - m           |
| Chemical resistance                      | Accidental    |
| Water proof                              | Good          |
| Flame retardant                          | IEC 60332-1-2 |
| Max. conductor temperature in service    | 85 °C         |
| Minimum dynamic operating bending radius | 112.2 mm      |
| Minimum static 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     |

## SELLING AND DELIVERY INFORMATION

### Marking

USE <'HAR> H07RN-F N (x or G) S mm<sup>2</sup>

N = number of cores

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G = with Green-Yellow  
x = without Green-Yellow  
S = section in mm<sup>2</sup>