

# H07RN-F

## H07RN-F 2x25 cut to length

**Nexans Ref.:** 10056212  
**Country Ref.:** 10056212  
**EAN 13:** 3427680006080

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)

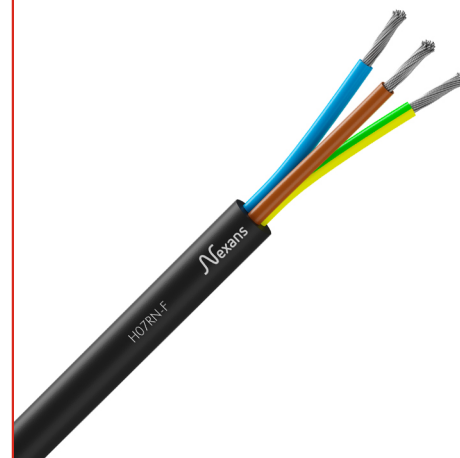
+85°C (in fixed and protected installation)

+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.



### FIRE PERFORMANCE CLASS

E<sub>ca</sub>

### STANDARDS

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

**National** NF C32-102-4



Conductor flexibility  
**Flexible class 5**



Lead free  
**Yes**



Rated Voltage U<sub>o</sub>/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	No

### Dimensional characteristics

Conductor cross-section	25 mm <sup>2</sup>
Number of cores	2
Approximate weight	1074 kg/km
Maximum outer diameter	30.7 mm
Minimum outer diameter	24.3 mm

### Electrical characteristics

Max. linear resistance, phase conductor	0.78 Ohm/km
Permissible current rating in open air	136 A
Phase reactance 50 Hz - trefoil formation	- Ohm/km
Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> )	450/750 V
Voltage drop, single phase	1.68 V/A.km

### Mechanical characteristics

Mechanical resistance to impacts	Very good
Cable flexibility	Flexible

### Usage characteristics

Packaging	Coil 100 m
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	78.6 mm
Minimum static operating bending radius	39.3 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>

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N = number of cores

G = with Green-Yellow

x = without Green-Yellow

S = section in mm<sup>2</sup>