

H07RN-F

H07RN-F 27G2,5 MBH GL1000

Contact

Building Products Information
contact.fr@nexans.com

Nexans Ref.: 10044019

EAN 13: 3427680005892

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)

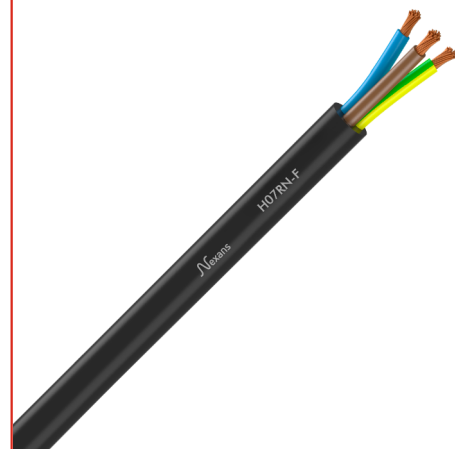
+85°C (in fixed and protected installation)

+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.

Generated 7/13/22 www.nexans.fr Page 1 / 3

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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	2.5 mm ²
Number of cores	27
Approximate weight	1470 kg/km
Maximum outer diameter	37.3 mm
Minimum outer diameter	29.5 mm

Electrical characteristics

Rated Voltage U ₀ /U (U _m)	450 / 750 V
Max. linear resistance, phase conductor	7.98 Ohm/km
Permissible current rating in open air	10 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	223.8 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 mm²

N = number of cores

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Generated 7/13/22 www.nexans.fr Page 2 / 3



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