Nexans H07RN-F



CONTACT

Building Products Information
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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

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)

Lead free
Yes

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

Mechanical resistance to impacts
Very good

Cable flexibility
Flexible

Water proof
Good

Max.conductor temp.in service
85 °C

Oil resistance
Yes

RoHS compliant
Yes

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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 shape	Circular
Insulation	Cross-linked synthetic elastomer type EI 4
Lead free	Yes
Sheath colour	Black
Electrical characteristics	
Rated Voltage Uo/U (Um)	450/750 V
Mechanical characteristics	
Mechanical resistance to impacts	Very good
Cable flexibility	Flexible
Usage characteristics	
Water proof	Good
Max. conductor temperature in service	85 °C
Oil resistance	Yes
RoHS compliant	Yes

SINGLE CORE

Cross section [mm²]	Perm. current rating open air [A]	Voltage drop, single phase [V/A.km]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]	Max. linear resistance, phase conductor [Ohm/km]	Min. dynamic operating bending rad. [mm]	Nexans Ref.
10	77	3.4	9.5	11.9	182	1.91	-	10056059
16	102	2.2	10.8	13.4	256	1.21	-	10056087
25	136	1.4	12.7	15.8	369	0.78	-	10055844
35	168	1.04	14.3	17.9	482	0.554	-	10056084
50	203	0.75	16.5	20.6	662	0.386	-	10055845
70	254	0.56	18.6	23.3	895	0.272	-	10056086
95	315	0.44	20.8	26.0	1144	0.206	-	10056088
120	363	0.36	22.8	28.6	1430	0.161	-	10056089
150	416	0.31	25.2	31.4	1740	0.129	-	10056129
185	475	0.28	27.6	34.4	2160	0.106	-	10044024
240	559	0.23	30.6	38.3	2730	0.0801	-	10044035
300	637	0.2	33.5	41.9	3480	0.0641	-	10044025
500	833	0.16	41.3	52.0	5700	0.0384	-	10056493

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TWO CORES

Cross section [mm²]	Perm. current rating open air [A]	Voltage drop, single phase [V/A.km]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]	Max. linear resistance, phase conductor [Ohm/km]	Min. dynamic operating bending rad. [mm]	Nexans Ref.
1.5	23	27.0	8.5	11.0	111	13.3	-	10056097
2.5	32	16.2	10.2	13.1	161	7.98	-	10056187
4	43	10.1	11.8	15.1	238	4.95	-	10056131

THREE CORES

Cross section [mm²]	Perm. current rating open air [A]	Voltage drop, single phase [V/A.km]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]	Max. linear resistance, phase conductor [Ohm/km]	Min. dynamic operating bending rad. [mm]	Nexans Ref.
1.5	23	27.0	9.2	11.9	134	13.3	-	10056797
2.5	32	16.2	10.9	14.0	195	7.98	-	10056143
4	43	10.1	12.7	16.2	290	4.95	-	10056120
6	56	7.0	14.1	18.0	346	3.3	-	10055972
10	77	4.0	19.1	24.2	663	1.91	-	10056144
16	102	2.5	21.8	27.6	924	1.21	-	10056188
25	136	1.7	26.1	33.0	1345	0.78	-	10044017
35	168	1.21	29.3	37.1	1760	0.554	-	10056207
50	203	0.87	34.1	42.9	2390	0.386	-	10056092
70	262	0.64	38.4	48.3	3110	0.272	-	10056093
95	320	0.5	43.3	54.0	4170	0.206	-	10056191

FOUR CORES

Cross section [mm²]	Perm. current rating open air [A]	Voltage drop, single phase [V/A.km]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]	Max. linear resistance, phase conductor [Ohm/km]	Min. dynamic operating bending rad. [mm]	Nexans Ref.
1.5	21	23.3	10.2	13.1	165	13.3	-	10056102
2.5	29	14.0	12.5	15.5	245	7.98	-	10056137
4	38	8.71	14.0	18.0	357	4.95	-	10056051
6	50	5.84	15.7	20.0	443	3.3	-	10056046
10	68	3.42	20.8	26.5	818	1.91	-	10056109
16	92	2.2	23.8	30.1	1150	1.21	-	10056146
25	122	1.44	28.9	36.6	1700	0.78	-	10055848
35	150	1.04	32.5	41.1	2180	0.554	-	10055849
50	182	0.75	37.7	47.5	3030	0.386	-	10044032
70	232	0.56	42.7	54.0	3990	0.272	-	10056155
95	281	0.44	48.4	61.0	5360	0.206	-	10056189

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Cross section [mm²]	Perm. current rating open air [A]	Voltage drop, single phase [V/A.km]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]	Max. linear resistance, phase conductor [Ohm/km]	Min. dynamic operating bending rad. [mm]	Nexans Ref.
120	325	0.36	53.0	66.0	6500	0.161	-	10056247
150	373	0.31	58.0	73.0	7990	0.129	-	10056211
150	373	0.31	58.0	73.0	7990	0.129	-	10278420
185	425	0.28	64.0	80.0	9910	0.106	-	10056248

FIVE CORES

Cross section [mm²]	Perm. current rating open air [A]	Voltage drop, single phase [V/A.km]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]	Max. linear resistance, phase conductor [Ohm/km]	Min. dynamic operating bending rad. [mm]	Nexans Ref.
1.5	21	23.6	11.2	14.4	238	13.3	-	10056106
2.5	29	14.0	13.3	17.0	297	7.98	-	10056126
6	50	5.84	17.5	22.2	557	3.3	-	10056154
10	68	3.43	22.9	29.1	1001	1.91	-	10056163
16	92	2.2	26.4	33.3	1430	1.21	-	10056158
25	122	1.44	32.0	40.4	2096	0.78	-	10056107
35	153	1.04	-	45.1	2716	0.554	-	10044018
50	187	1.04	-	53.0	3809	0.386	-	10056190
70	241	0.56	-	60.0	5087	0.272	-	10056218
95	293	0.44	54.0	67.0	6637	0.206	-	10056309

SEVEN CORES

Cross section [mm²]	Perm. current rating open air [A]	Voltage drop, single phase [V/A.km]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]	Max. linear resistance, phase conductor [Ohm/km]	Min. dynamic operating bending rad. [mm]	Nexans Ref.
1.5	16	23.3	14.7	18.7	349	13.3	-	10056165
2.5	19	13.9	17.1	21.8	487	7.98	-	10056156
4	31	8.7	20.3	25.8	715	4.95	-	10056358

TWELVE CORES

Cross section [mm²]	Perm. current rating open air [A]	Voltage drop, single phase [V/A.km]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]	Max. linear resistance, phase conductor [Ohm/km]	Min. dynamic operating bending rad. [mm]	Nexans Ref.
1.5	11	23.3	17.6	22.14	510	13.3	-	10056182
2.5	15	13.9	20.6	26.2	705	7.98	-	10044033

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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

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