

H07RN-F CPR

Kontakter

Installation
Tlf.: Support: +46 325 80 777
installation-pc.dk@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.

BESKRIVELSE

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)

+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.



STANDARDER

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

National NF C 32-102-4



Bly fri
Ja



Mekanisk modstand
til impacts
Meget godt



Kabel fleksibilitet
Fleksibel



Kemisk modstand
Accidental



Vandtæt
Good



RoHS compliant
Yes



Olie modstand
Ja



Maksimal kerne
temperatur
60 °C

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TEKNISKE DATA

Konstruktion

Bly fri	Ja
Kappe farve	Sort
Ydre kappe	Cross-linked synthetic elastomer type EM 2
Isolation	Cross-linked synthetic elastomer type EI 4

Mekaniske egenskaber

Mekanisk modstand til impacts	Meget godt
Kabel fleksibilitet	Fleksibel

Håndteringsinformation

Kemisk modstand	Accidental
Vandtæt	Good
RoHS compliant	Yes
Maksimum kortslutningstemperatur – leder	200 °C
Olie modstand	Ja
Maksimal kerne temperatur	60 °C

SINGLE CORE

Cross section [mm ²]	Perm. current rating open air [A]	Voltage nedgang, enlig fase [V/A.km]	Max. outer diam. [mm]	Approx. weight [kg/km]	Max. lineær modstand fase leder [Ohm/km]
1,5	23	23,3	7,1	50	13,3
2,5	32	14,0	7,9	66	7,98
4	43	8,7	9,0	94	4,95
6	56	5,9	9,8	109	3,3
10	77	3,4	11,9	182	1,91
16	102	2,2	13,4	256	1,21
25	136	1,4	15,8	369	0,78
35	168	1,04	17,9	482	0,554
50	203	0,75	20,6	662	0,386
70	254	0,56	23,3	895	0,272
120	363	0,36	28,6	1430	0,161
185	475	0,28	34,4	2160	0,106
240	559	0,23	38,3	2730	0,0801
300	637	0,2	41,9	3480	0,0641
500	833	0,16	52,0	5700	0,0384

TWO CORES

Cross section [mm ²]	Perm. current rating open air [A]	Voltage nedgang, enlig fase [V/A.km]	Max. outer diam. [mm]	Approx. weight [kg/km]	Max. lineær modstand fase leder [Ohm/km]
1	18	39,4	10,0	99	19,5
1,5	23	27,0	11,0	111	13,3

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Cross section [mm ²]	Perm. current rating open air [A]	Voltage nedgang, enlig fase [V/A.km]	Max. outer diam. [mm]	Approx. weight [kg/km]	Max. lineær modstand fase leder [Ohm/km]
4	43	10,1	15,1	238	4,95
6	56	6,7	16,8	279	3,3
10	77	3,8	22,6	538	1,91
16	102	2,5	25,7	744	1,21
25	136	1,68	30,7	1074	0,78

THREE CORES

Cross section [mm ²]	Perm. current rating open air [A]	Voltage nedgang, enlig fase [V/A.km]	Max. outer diam. [mm]	Approx. weight [kg/km]	Max. lineær modstand fase leder [Ohm/km]
1,5	23	27,0	11,9	134	13,3
2,5	32	16,2	14,0	195	7,98
6	56	7,0	18,0	346	3,3
10	77	4,0	24,2	663	1,91
16	102	2,5	27,6	924	1,21
25	136	1,7	33,0	1345	0,78
35	168	1,21	37,1	1760	0,554
50	203	0,87	42,9	2390	0,386
70	262	0,64	48,3	3110	0,272
95	320	0,5	54,0	4170	0,206
120	373	0,4	60,0	5080	0,161
240	587	0,26	82,0	9780	0,08

FOUR CORES

Cross section [mm ²]	Perm. current rating open air [A]	Voltage nedgang, enlig fase [V/A.km]	Max. outer diam. [mm]	Approx. weight [kg/km]	Max. lineær modstand fase leder [Ohm/km]
1	16	34,08	12,0	144	19,5
1,5	21	23,3	13,1	165	13,3
2,5	29	14,0	15,5	245	7,98
4	38	8,71	18,0	357	4,95
6	50	5,84	20,0	443	3,3
10	68	3,42	26,5	818	1,91
16	92	2,2	30,1	1150	1,21
25	122	1,44	36,6	1700	0,78
35	150	1,04	41,1	2180	0,554
50	182	0,75	47,5	3030	0,386
70	232	0,56	54,0	3990	0,272
95	281	0,44	61,0	5360	0,206
120	325	0,36	66,0	6500	0,161
150	373	0,31	73,0	7990	0,129

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185	425	0,28	80,0	9910	0,106

FIVE CORES

Cross section [mm ²]	Perm. current rating open air [A]	Voltage nedgang, enlig fase [V/A.km]	Max. outer diam. [mm]	Approx. weight [kg/km]	Max. lineær modstand fase leder [Ohm/km]
1	16	34,1	14,0	180	19,5
1,5	21	23,6	14,4	238	13,3
2,5	29	14,0	17,0	297	7,98
4	38	8,72	19,9	453	4,95
6	50	5,84	22,2	557	3,3
10	68	3,43	29,1	1001	1,91
16	92	2,2	33,3	1430	1,21
25	122	1,44	40,4	2096	0,78
35	-	-	-	2716	-
50	-	-	-	3809	0,386
70	-	-	-	5087	-
95	-	-	-	6637	-

TWELVE CORES

Cross section [mm ²]	Perm. current rating open air [A]	Voltage nedgang, enlig fase [V/A.km]	Max. outer diam. [mm]	Approx. weight [kg/km]	Max. lineær modstand fase leder [Ohm/km]
1,5	11	23,3	22,14	510	13,3

EIGHTEEN CORES

Cross section [mm ²]	Perm. current rating open air [A]	Voltage nedgang, enlig fase [V/A.km]	Max. outer diam. [mm]	Approx. weight [kg/km]	Max. lineær modstand fase leder [Ohm/km]
1,5	9	20,7	26,3	730	13,3

THIRTY SIX CORES

Cross section [mm ²]	Perm. current rating open air [A]	Voltage nedgang, enlig fase [V/A.km]	Max. outer diam. [mm]	Approx. weight [kg/km]	Max. lineær modstand fase leder [Ohm/km]
1,5	6	-	35,2	1325	13,3

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NEW CORES IDENTIFICATION

Core identification in accordance with HD 308 S2 - Identification of cores in cables and flexible cords.

Number of cores	HD 308 S2 since january 2004	
	G (earth core)	X (without earth core)
1		Black (preferential)
2		Blue + Brown
3*	Green - Yellow + Blue + Brown	Brown + Black + Grey
3**		Blue + Brown + Black
4	Green - Yellow + Brown + Black + Grey	Blue + Brown + Black + Grey
5	Green - Yellow + Blue + Brown + Black + Grey	Blue + Brown + Black + Grey + Black
> 5	White printed numbers + 1 Green - Yellow	White printed numbers

* For the cables without Green/Yellow with a cross-section >4mm²

** For the cables without Green/Yellow with a cross-section of 1,5mm² & 2,5mm²

SALGS OG LEVERINGSINFORMATIONER

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