

1600600	<b>DATA SHEET</b>	
valid from: 29.09.2021	<b>H07RN8-F</b>	

## Application

H07RN8-F is a heavy-duty, rubber-sheathed cable to be used with heavy appliances such as tool and agricultural machinery in dry, damp or wet rooms. Continues, busy movements or under a strain of more than 15 N/mm<sup>2</sup> conductor cross section are not allowed. Acc. to DIN EN 50565-2, this cable is suitable for permanent submersion in water up to a depth of 10 m by a maximum water temperature of +40 °C and for use as supply cable for submersible pumps.

## Design

Design	acc. to EN 50525-2-21
Certification	The cable is characterized with the <HAR> HAR-sign or HAR-identification thread.
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. EN 60228, class 5
Insulation	rubber compound EI4 acc. to EN 50363-1
Core identification code	up to 5 cores: colour-coded acc. to VDE 0293-308 with or without GN-YE ground conductor starting at 6 cores: black cores with white numbers with GN-YE ground conductor acc. to EN 50334
Outer sheath	Single-layered: Rubber compound EM 2 acc. to EN 50363-2-1 Double-layered: Inner layer Rubber EM 2 or EM 3 acc. to EN 50363-2-1 Outer sheath Rubber compound EM 2 acc. to EN 50363-2-1

## Electrical properties at 20 °C

Nominal voltage	U <sub>0</sub> /U: 450/750 V
Test voltage	A / A: 2500 V AC

## Mechanical and thermal properties

Minimum bending radius	4 to 8 x D acc. to EN 50565-1
Temperature range	flexible use: -25 °C to +60 °C fix installation: -40 °C to +60 °C
Flammability	acc. to IEC 60332-1-2 resp. EN 60332-1-2
Oil resistance	acc. to EN 50363-2-1
Water-resistance	acc. to EN 50525-2-21, appendices D + E, EN 50565-2, max. water temperature: + 40 °C when submersed

<b>Tests</b>	acc. to IEC 60811 resp. EN 60811; EN 50395; EN 50396 and EN 50363
<b>General requirements</b>	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)
<b>Environmental information</b>	These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).
<b>Note</b>	Trade product, no Lapp product

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### Ampacity

Number of cores	1	2	3	4	5	7
Number of loaded cores	3	2	2	3	3	6
Cross-section [mm <sup>2</sup> ]	Ampacity at 30°C [A]					
1,5	16,5	18,5	19,5	16	16,5	10,075
2,5	22	25	26	22	23	13,65
4	30	34	35	30	30	
6	38	43	44	37	38	
10	53	60	62	52	54	
16	71	79	82	69	71	
25	94	105	109	92	94	
35	117	129	135	114	117	
50	148	162	169	143	148	
70	185	202	211	178	185	
95	222	240	250	210	222	

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