H07RN-F

Heavy standard construction

H07RN-F, HAR, power and control cable, rubber, heavy, 450/750 V, industrial and agricultural use, class 5, -25 °C to +60 °C, oil-resistant, flame-retardant

Info

Medium mechanical stress
Oil-resistant



Cold-resistant

Mechanical resistance

Oil-resistant

UV-resistant

Benefits

For mechanically more demanding applications
1000 V AC at protected + static laying
Arrangements made of single-core, rubber-sheathed cables H07RN-F can be used for short circuit-proof and short-to-ground-proof installations in accordance with IEC 60364-5-52/ HD 60364-5-52/ VDE 0100 Part 520

Application range

Handheld and power supply devices according to EN 50565-2
Medium, mechanical stress
Industrial, agricultural use
According to EN 50565-2: In dry, damp and wet rooms as well as for fixed installation e.g. on the plaster

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Product features
Flame-retardant according IEC 60332-1-2
Oil-resistant according to EN 60811-404

Norm references / Approvals
<HAR> H07RN-F cable type approval according to EN 50525-2-21

Product Make-up
Bare copper wire according to HAR
Core insulation: rubber compound, type EI 4
Outer sheath: rubber compound, type EM2

Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC001578 ETIM 5.0 Class-Description: Flexible cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC001578 ETIM 6.0 Class-Description: Flexible cable
Core identification code:	Up to 5 cores: colour-coded according to VDE 0293-308, refer to Appendix T9 From 6 cores: black with white numbers
Conductor stranding:	Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
Minimum bending radius:	4 to 8 x outer diameter (EN 50565-1)
Nominal voltage:	U0/U: 450/750 V
Test voltage:	2500 V
Protective conductor:	G = with GN-YE protective conductor X = without protective conductor
Current rating:	According to IEC 60364-5-52/ VDE 0298-4 EN 50565-1/ VDE 0298-565-1
Temperature range:	Fixed installation: -25 °C up to +60 °C Occasionally moved: -25 °C bis +60 °C

Note
Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.
Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum
Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).
* Trade product, no Lapp product
Photographs and graphics are not to scale and do not represent detailed images of the respective products.
Prices are net prices without VAT and surcharges. Sale to business customers only.

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PRODUCT INFORMATION

Article number	Number of cores and mm² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
1600096	1 X 1.5	5.7 - 6.5	14.4	59
1600099	1 X 2.5	6.3 - 7.2	24	72
1600097	1 X 4.0	7.2 - 8.1	38.4	99
1600098	1 X 6.0	7.9 - 8.8	57.6	130
1600194	1 X 10.0	9.5 - 10.7	96	230
1600195	1 X 16.0	10.8 - 12.0	153.6	320
1600196	1 X 25.0	12.7 - 14.0	240	450
1600193	1 X 35.0	14.3 - 15.9	336	605
1600197	1 X 50.0	16.5 - 18.2	480	825
1600189	1 X 70.0	18.6 - 20.5	672	1090
1600190	1 X 95.0	20.8 - 22.9	912	1405
1600198	1 X 120.0	22.8 - 25.1	1152	1745
1600191	1 X 150.0	25.2 - 27.6	1440	1887
1600175	1 X 185.0	27.6 - 30.2	1776	2274
1600177	1 X 240.0	30.6 - 33.5	2304	2955
30015435	1 X 300.0	33.5 - 36.7	2880	3479
1600117	3 G 1.0	8.3 - 9.6	28.8	130
1600199	2 X 1.5	8.5 - 9.9	28.8	135
1600103	3 G 1.5	9.2 - 10.7	43.2	165
16001233	4 G 1.5	10.2 - 11.7	57.6	200
16001043	5 G 1.5	11.2 - 12.8	72	240
1600151	7 G 1.5	14.7 - 16.5	100.8	385
1600148	12 G 1.5	17.6 - 19.8	172.8	516
1600259	19 G 1.5	20.7 - 26.3	273.6	800
1600166	24 G 1.5	24.3 - 27.0	345.6	882
1600263	25 G 1.5	25.1 - 25.9	360	920
1600187	2 X 2.5	10.2 - 11.7	48	195
1600118	3 G 2.5	10.9 - 12.5	72	235
16001053	4 G 2.5	12.1 - 13.8	96	290
16001293	5 G 2.5	13.3 - 15.1	120	294
1600152	7 G 2.5	17.1 - 19.3	168	520
1600154	12 G 2.5	20.6 - 23.1	288	810
1600156	19 G 2.5	25.5 - 31	456	1200
1600157	24 G 2.5	28.8 - 31.9	576	1298

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Article number	Number of cores and mm² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
1600186	2 X 4.0	11.8 - 13.4	76.8	270
1600119	3 G 4.0	12.7 - 14.4	115.2	320
16001063	4 G 4.0	14.0 - 15.9	153.6	395
16001303	5 G 4.0	15.6 - 17.6	192	485
1600161	7 G 4.0	20.1 - 22.4	268.8	681
1600120	3 G 6.0	14.1 - 15.9	172.8	360
16001073	4 G 6.0	15.7 - 17.7	230.4	475
16001313	5 G 6.0	17.5 - 19.6	288	760
1600121	3 G 10.0	19.1 - 21.3	288	880
16001083	4 G 10.0	20.9 - 23.3	384	1060
16001093	5 G 10.0	22.9 - 25.6	480	1300
1600122	3 G 16.0	21.8 - 24.3	460.8	1090
16001103	4 G 16.0	23.8 - 26.4	614.4	1345
16001113	5 G 16.0	26.4 - 29.2	768	1680
16001123	4 G 25.0	28.9 - 32.1	960	1995
16001133	5 G 25.0	32.0 - 35.4	1200	2470
1600124	3 G 35.0	29.3 - 32.5	1008	1910
16001143	4 G 35.0	32.5 - 36.0	1344	2645
16001363	5 G 35.0	35.7 - 39.5	1680	2810
16001153	4 G 50.0	37.7 - 41.5	1920	3635
1600126	5 G 50.0	41.8 - 46.6	2400	4050
16001163	4 G 70.0	42.7 - 47.1	2688	4830
16001283	4 G 95.0	48.4 - 53.2	3648	6320
16001323	4 G 120.0	53.0 - 57.5	4608	6830
16000883	4 G 150.0	58.0 - 63.6	5760	8320
1600141	4 G 185.0	64.0 - 69.7	7104	9800
1600183	4 G 240.0	72.0 - 79.2	9216	12800

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