



H07RN-F

Heavy standard construction

**Info**

- Medium mechanical stress
- Oil-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

**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 5/6**  
ETIM 5.0/6.0 Class-ID: EC001578  
ETIM 5.0/6.0 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**  
-25°C to +60°C

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
<b>H07RN-F</b>				
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	7.2 - 8.1	38.4	99
1600098	1 X 6	7.9 - 8.8	57.6	130
1600194	1 X 10	9.5 - 10.7	96	230
1600195	1 X 16	10.8 - 12.0	153.6	320
1600196	1 X 25	12.7 - 14.0	240	450
1600193	1 X 35	14.3 - 15.9	336	605
1600197	1 X 50	16.5 - 18.2	480	825
1600189	1 X 70	18.6 - 20.5	672	1090
1600190	1 X 95	20.8 - 22.9	912	1405
1600198	1 X 120	22.8 - 25.1	1152	1745
1600191	1 X 150	25.2 - 27.6	1440	1887
1600175	1 X 185	27.6 - 30.2	1776	2274
1600177	1 X 240	30.6 - 33.5	2304	2955
30015435	1 X 300	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

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
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 - 31.0	456	1200
1600157	24 G 2,5	28.8 - 31.9	576	1298
1600186	2 X 4	11.8 - 13.4	76.8	270
1600119	3 G 4	12.7 - 14.4	115.2	320
16001063	4 G 4	14.0 - 15.9	153.6	395
16001303	5 G 4	15.6 - 17.6	192	485
1600161	7 G 4	20.1 - 22.4	268.8	681
1600120	3 G 6	14.1 - 15.9	172.8	360
16001073	4 G 6	15.7 - 17.7	230.4	475
16001313	5 G 6	17.5 - 19.6	288	760
1600121	3 G 10	19.1 - 21.3	288	880
16001083	4 G 10	20.9 - 23.3	384	1060
16001093	5 G 10	22.9 - 25.6	480	1300
1600122	3 G 16	21.8 - 24.3	460.8	1090
16001103	4 G 16	23.8 - 26.4	614.4	1345
16001113	5 G 16	26.4 - 29.2	768	1680
16001123	4 G 25	28.9 - 32.1	960	1995
16001133	5 G 25	32.0 - 35.4	1200	2470
1600124	3 G 35	29.3 - 32.5	1008	1910
16001143	4 G 35	32.5 - 36.0	1344	2645
16001363	5 G 35	35.7 - 39.5	1680	2810
16001153	4 G 50	37.7 - 41.5	1920	3635
1600126	5 G 50	41.8 - 46.6	2400	4050
16001163	4 G 70	42.7 - 47.1	2688	4830
16001283	4 G 95	48.4 - 53.2	3648	6320
16001323	4 G 120	53.0 - 57.5	4608	6830
16000883	4 G 150	58.0 - 63.6	5760	8320
1600141	4 G 185	64.0 - 69.7	7104	9800
1600183	4 G 240	72.0 - 79.2	9216	12800

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](http://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).  
Photographs and graphics are not to scale and do not represent detailed images of the respective products.