# 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<br>ETIM 5.0 Class-Description: Flexible cable |
| Classification ETIM 6: | ETIM 6.0 Class-ID: EC001578<br>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<br>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<br>X = without protective conductor |
| Current rating: | According to IEC 60364-5-52/ VDE 0298-4<br>EN 50565-1/ VDE 0298-565-1 |
| Temperature range: | Fixed installation: -25 °C up to +60 °C<br>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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| 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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