

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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| Article number | Number of cores and mm ² 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 mm ² 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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