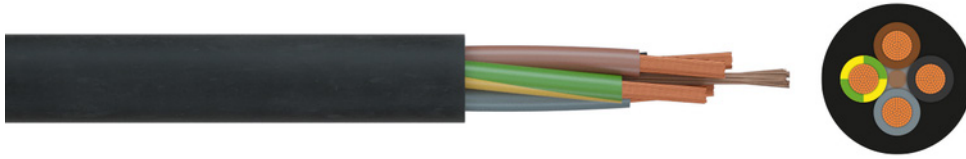


Rubber cable

H07RN-F



Application: For use at medium mechanical stress in dry, wet and damp locations, as well as outdoors. Also for fixed installation on plaster or machines. The cable is oil-, UV- and ozone-resistant. Higher conductor temperatures may be permissible with protected installation, please inquire. When installed in pipes or similar enclosed systems, the use of the cable is permitted up to and including 1000 V AC voltage or up to 750 V DC voltage against earth.

Construction and technical data:

| | |
|--|---------------------------------------|
| CPR-classification according to EN 50575: | Eca |
| Standard: | DIN EN 50525-2-21 (VDE 0285-525-2-21) |
| Conductor material: | copper, bare |
| Conductor construction: | Class 5 = flexible |
| Insulation: | rubber (EPR) EI4 |
| Sheathing material: | rubber (CR) EM2 |
| Flame-retardant: | VDE 0482-332-1-2/IEC 60332-1-2 |
| UV-resistant: | yes |
| Oil-resistant: | EN 60811-404 |
| Ozone-resistant: | yes |
| For outdoor use: | yes |
| Max. temperature at conductor, °C: | 60 °C |
| Permitted outer cable temperature, fixed, °C: | -25 - +55 °C |
| Permitted outer cable temperature, moved, °C: | -25 - +55 °C |



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Bending radius acc. DIN EN 50565-1

| application | < 8 mm | 8-12 mm | 12-20 mm | > 20 mm |
|--------------------|--------|---------|----------|---------|
| fixed installation | | 3 x Ø | | 4 x Ø |
| free movement | | 5 x Ø | | 6 x Ø |
| cable entry | | 5 x Ø | | 6 x Ø |

H07RN-F**Nominal voltage U_o:**

450 V

Nominal voltage U:

750 V

Test voltage:

2.5 kV

Core identification:

colours acc. to VDE 0293 (HD 308);

more than 5 cores: gn-ye + numbers

| part no. | part name | RI [Ohm/km] | I _{bl} [A] | Ø [mm] | F _{zv} [N] | Cu | G [kg] |
|----------|-----------|-------------|---------------------|--------|---------------------|------|--------|
| 050214 | 01X1.5 | 13.3 | 16.5 | 5.9 | 23 | 14.4 | 50 |
| 050358 | 01X2.5 | 7.98 | 22 | 6.6 | 38 | 24 | 80 |
| 050233 | 01X4 | 4.95 | 30 | 7.4 | 60 | 38 | 100 |
| 050205 | 01X6 | 3.3 | 38 | 8.1 | 90 | 58 | 130 |
| 050033 | 01X10 | 1.91 | 53 | 9.7 | 150 | 96 | 220 |
| 050036 | 01X16 | 1.21 | 71 | 11 | 240 | 154 | 280 |
| 050037 | 01X25 | 0.78 | 94 | 12.9 | 375 | 240 | 400 |
| 050038 | 01X35 | 0.554 | 117 | 14.6 | 525 | 336 | 520 |
| 050039 | 01X50 | 0.386 | 148 | 16.8 | 750 | 480 | 720 |
| 050041 | 01X70 | 0.272 | 185 | 18.9 | 1050 | 672 | 940 |
| 050042 | 01X95 | 0.206 | 222 | 21.1 | 1425 | 912 | 1220 |
| 050034 | 01X120 | 0.161 | 260 | 23.1 | 1800 | 1152 | 1510 |
| 050035 | 01X150 | 0.129 | 300 | 25.6 | 2250 | 1440 | 1900 |
| 050111 | 01X185 | 0.106 | 341 | 27.9 | 2775 | 1776 | 2300 |
| 050113 | 01X240 | 0.0801 | 407 | 31 | 3600 | 2304 | 2900 |
| 050195 | 01X300 | 0.0641 | 468 | 34.1 | 4500 | 2880 | 3600 |
| 050408 | 01X400 | 0.0486 | 553 | 38.5 | 6000 | 3840 | 4800 |
| 051779 | 01X500 | 0.0384 | 634 | 43.5 | 7500 | 4800 | 5431 |
| 050983 | 01X630 | 0.0287 | 742 | 48.5 | 9450 | 6048 | 6849 |
| 050170 | 02X1 | 19.5 | 15 | 7.8 | 30 | 19 | 100 |
| 050043 | 02X1.5 | 13.3 | 18.5 | 8.7 | 45 | 29 | 130 |
| 050044 | 02X2.5 | 7.98 | 25 | 10.4 | 75 | 48 | 195 |
| 050228 | 02X4 | 4.95 | 34 | 12 | 120 | 77 | 280 |
| 050229 | 02X6 | 3.3 | 43 | 13.3 | 180 | 115 | 400 |
| 050880 | 03X1 | 19.5 | 12.5 | 8.4 | 45 | 29 | 90 |
| 050045 | 03G1 | 19.5 | 15.5 | 8.4 | 45 | 29 | 125 |
| 050881 | 03X1.5 | 13.3 | 15.5 | 9.4 | 68 | 43 | 155 |
| 050046 | 03G1.5 | 13.3 | 19.5 | 9.4 | 68 | 43 | 155 |
| 050882 | 03X2.5 | 7.98 | 21 | 11.1 | 113 | 72 | 235 |
| 050048 | 03G2.5 | 7.98 | 26 | 11.1 | 113 | 72 | 235 |
| 050114 | 03G4 | 4.95 | 35 | 12.9 | 180 | 115 | 310 |
| 050883 | 03X6 | 3.3 | 36 | 14.3 | 270 | 173 | 495 |
| 050115 | 03G6 | 3.3 | 44 | 14.3 | 270 | 173 | 400 |
| 050884 | 03X10 | 1.9 | 51 | 19.3 | 450 | 288 | 730 |
| 050101 | 03G10 | 1.91 | 62 | 19.3 | 450 | 288 | 810 |
| 050885 | 03X16 | 1.21 | 67 | 22.1 | 720 | 461 | 1020 |
| 050102 | 03G16 | 1.21 | 82 | 22.1 | 720 | 461 | 1000 |
| 050886 | 03X25 | 0.78 | 89 | 27 | 1125 | 720 | 1250 |
| 050240 | 03G25 | 0.78 | 109 | 27 | 1125 | 720 | 1250 |
| 050887 | 03X35 | 0.554 | 110 | 29.6 | 1575 | 1008 | 1733 |
| 050309 | 03G35 | 0.554 | 135 | 29.6 | 1575 | 1008 | 1850 |
| 050185 | 03G50 | 0.386 | 169 | 36 | 2250 | 1440 | 3790 |
| 050375 | 04G1 | 19.5 | 13 | 9.5 | 60 | 38 | 129 |
| 050050 | 04G1.5 | 13.3 | 16 | 10.4 | 90 | 58 | 190 |
| 050054 | 04G2.5 | 7.98 | 22 | 12.3 | 150 | 96 | 280 |
| 050057 | 04G4 | 4.95 | 30 | 14.2 | 240 | 154 | 380 |
| 050059 | 04G6 | 3.3 | 37 | 15.9 | 360 | 230 | 510 |

| part no. | part name | RI [Ohm/km] | Ibl [A] | Ø [mm] | Fzv [N] | Cu | G [kg] |
|----------|----------------------------|-------------|---------|--------|---------|-------|--------|
| 050888 | 04X10 | 1.91 | 52 | 21.3 | 600 | 384 | 940 |
| 050051 | 04G10 | 1.91 | 52 | 21.3 | 600 | 384 | 940 |
| 050889 | 04X16 | 1.21 | 69 | 24.2 | 960 | 614.4 | 1250 |
| 050053 | 04G16 | 1.21 | 69 | 24.2 | 960 | 614 | 1250 |
| 050890 | 04X25 | 0.78 | 92 | 29.3 | 1500 | 960 | 1850 |
| 050055 | 04G25 | 0.78 | 92 | 29.3 | 1500 | 960 | 1850 |
| 050056 | 04G35 | 0.554 | 114 | 33 | 2100 | 1344 | 2310 |
| 050058 | 04G50 | 0.386 | 143 | 38.2 | 3000 | 1920 | 3160 |
| 050060 | 04G70 | 0.272 | 178 | 43.2 | 4200 | 2688 | 4250 |
| 050061 | 04G95 | 0.206 | 210 | 49 | 5700 | 3648 | 5590 |
| 050052 | 04G120 | 0.161 | 246 | 53.6 | 7200 | 4608 | 6790 |
| 050187 | 04G150 | 0.129 | 282 | 58.7 | 9000 | 5760 | 8230 |
| 050196 | 04G185 | 0.106 | 319 | 65 | 11100 | 7104 | 9700 |
| 050837 | 04G240 | 0.0801 | 377 | 74 | 14400 | 9216 | 13120 |
| 050062 | 05G1.5 | 13.3 | 16.5 | 11.5 | 113 | 72 | 230 |
| 050065 | 05G2.5 | 7.98 | 23 | 13.5 | 188 | 120 | 340 |
| 051099 | 05X2,5 | 7.98 | 17 | 13.5 | 188 | 120 | 340 |
| 050067 | 05G4 | 4.95 | 30 | 15.9 | 300 | 192 | 470 |
| 050068 | 05G6 | 3.3 | 38 | 17.9 | 450 | 288 | 630 |
| 050063 | 05G10 | 1.91 | 54 | 22.3 | 750 | 480 | 1150 |
| 050064 | 05G16 | 1.21 | 71 | 26.9 | 1200 | 768 | 1540 |
| 050066 | 05G25 | 0.78 | 94 | 32.5 | 1875 | 1200 | 2200 |
| 050160 | 05G35 | 0.554 | 117 | 38 | 2625 | 1680 | 2700 |
| 050217 | 05G50 | 0.386 | 148 | 44.5 | 3750 | 2400 | 3950 |
| 050319 | 05G70 | 0.272 | 185 | 47 | 5250 | 3360 | 4893 |
| 050352 | 05G95 | 0.206 | 222 | 58 | 7125 | 4560 | 6600 |
| 050858 | 05G120 (with reference to) | 0.161 | 246 | 61 | 9000 | 5760 | 8051 |
| 051080 | 05G150 (with reference to) | 0.129 | 282 | 73 | 11250 | 7200 | 10500 |
| 051668 | 05G185 (with reference to) | 0.106 | 319 | 74.8 | 13875 | 8880 | 12208 |
| 051757 | 05G240 (with reference to) | 0.0801 | 377 | 81.9 | 18000 | 11520 | 15230 |
| 050216 | 07G1.5 | 13.3 | 15.5 | 14.5 | 158 | 101 | 370 |
| 050219 | 07G2.5 | 7.98 | 21 | 17 | 263 | 168 | 520 |
| 051140 | 07G4 | 4.95 | 29 | 25.8 | 420 | 269 | 697 |
| 052503 | 07G6 (with reference to) | 3.3 | 36 | 22.5 | 630 | 403.2 | 915 |
| 052274 | 10G1.5 | 13.3 | 15.5 | 17.2 | 225 | 144 | 457 |
| 050215 | 12G1.5 | 13.3 | 15.5 | 18.3 | 270 | 175 | 450 |
| 050204 | 12G2.5 | 7.98 | 21 | 19 | 450 | 288 | 750 |
| 050218 | 18G2,5 | 7.98 | 21 | 26 | 675 | 432 | 1032 |
| 050220 | 19G1.5 | 13.3 | 15.5 | 23.5 | 428 | 274 | 800 |
| 050242 | 19G2.5 | 7.98 | 21 | 26.6 | 713 | 456 | 1068 |
| 050243 | 24G1.5 | 13.3 | 15.5 | 25.5 | 540 | 346 | 1000 |
| 050202 | 24G2.5 | 7.98 | 21 | 31.5 | 900 | 576 | 1380 |
| 050750 | 25G1.5 | 13.3 | 15.5 | 26 | 563 | 360 | 889 |
| 051800 | 02X1 YE | 19.5 | 15 | 8 | 30 | 19 | 89 |
| 051801 | 02X1.5 YE | 13.3 | 18.5 | 8.9 | 45 | 29 | 116 |
| 051675 | 03G1.5 RD | 13.3 | 19.5 | 9.4 | 68 | 43 | 155 |

| | |
|-----|--|
| RI | Conductor resistance |
| Ibl | Ampacity in air (30 °C) |
| Ø | outer diameter approx. |
| Fzv | Tensile strength (during installation) |
| Cu | Copper weight (GER) |
| G | net weight per 1000 |