

## H07RN-F



### Anwendung

Schwere Gummischlauchleitungen zur Verwendung bei mittleren mechanischen Beanspruchungen in trockenen, feuchten und nassen Räumen sowie im Freien und in landwirtschaftlichen Betriebsstätten. Sie werden eingesetzt für Geräte in gewerblichen Betrieben wie z.B. große Kochkessel, Heizplatten, Handleuchten, Elektrowerkzeuge wie Bohrmaschinen, Kreissägen und Heimwerkergeräte sowie für transportable Motoren oder Maschinen auf Baustellen. Diese Leitungen sind außerdem geeignet für feste Verlegung auf Putz, in provisorischen Bauten und Wohnbaracken. Sie können auch direkt auf Bauteilen von Hebezeugen und Maschinen verlegt werden. Sie dürfen bei geschützter, fester Verlegung in Rohren oder in Geräten sowie als Läuferanschlussleitung von Motoren jeweils mit einer Nennspannung bis 1000 V Wechselspannung oder einer Gleichspannung bis 750 V gegen Erde betrieben werden. Bei der Verwendung in Schienenfahrzeugen darf die Betriebsgleichspannung 900 V gegen Erde betragen. In explosionsgefährdeten Bereichen nach DIN VDE 0165 zulässig.

### Normen

nach VDE 0285-525-2-21, EN 50525-2-21, BS 7919, IEC 60245-4

Die Leitung entspricht:  
REACH Verordnung EG 1907/2006  
RoHS Richtlinie 2011/65/EU, (EU) 2015/863

CE = Das Produkt ist konform zur EG-Niederspannungsrichtlinie 2014/35/EU.

### Application

Heavy duty rubber-sheathed flexible cables are suited for use for medium mechanical stress in dry, damp and wet areas as well as in open air and in agriculture plants. They are used for equipment in industry works such as boilers, heating plates, hand lamps, electric tools such as drills, circular saws and homework tools as well as for transportable motors or machines at site. These cables are also suitable for fixed installation on plaster, in temporary buildings and residential barracks. They are suitable for direct laying on components and mechanical parts of machines, for example lifts and cranes.

They can be used in case of protected and fixed installation in tubes or in equipment as well as rotor connecting cable of motors with a working voltage up to 1000 V alternating voltage or a direct voltage up to 750 V against ground. The operating direct voltage is permitted up to 900 V against ground when they are used in rail-coaches. Installation in hazardous areas according to DIN VDE 0165 is allowed.

### Standards

acc. to VDE 0285-525-2-21, EN 50525-2-21, BS 7919, IEC 60245-4

The cable complies with:  
REACH Regulation EC 1907/2006  
RoHS Directive 2011/65/EU, (EU) 2015/863

CE = The product is conformed with the EC Low-Voltage Directive 2014/35/EU.

## Aufbau

|                            |  |
|----------------------------|--|
| <b>Innenleiter</b>         | Kupferleiter blank, feindrätig nach DIN VDE 0295 Kl. 5 / IEC 60228 Kl. 5 |
| <b>Aderisolierung</b>      | Gummimischung (EPR) EI4  |
| <b>Aderfarbcode</b>        | nach HD 308 S2   |
| <b>Verseilelement</b>      | Adern verseilt   |
| <b>Außenmantelmaterial</b> | Polychloropren (PCP) EM2   |
| <b>Beständig gegen</b>     | Ozon, Öle und Fette  |

## Techn. Daten

|                                     |                                |
|-------------------------------------|--------------------------------|
| <b>Nennspannung</b>                 | U <sub>0</sub> /U: 450 /750 V  |
| <b>Nennspannung Gleichstrom DC</b>  | U <sub>0</sub> /U: 675 /1125 V |
| <b>Prüfspannung</b>                 | 2500 V                         |
| <b>Biegeradius bew. (xD)</b>        | 7                              |
| <b>Biegeradius fest (xD)</b>        | 4                              |
| <b>Betriebstemperatur fest</b>      | -40 °C bis 60 °C               |
| <b>Betriebstemperatur beweglich</b> | -25 °C bis 60 °C               |
| <b>Kurzschlussstemperatur</b>       | 200 °C                         |
| <b>Kurzschlussdauer</b>             | 5 sek.                         |
| <b>Brandklassen</b>                 | Eca                            |

## Construction

|                                  |   |
|----------------------------------|---|
| <b>Inner Conductor</b>           | fine-stranded bare copper acc. DIN VDE 0295 cl. 5 / IEC 60228 cl. 5 |
| <b>Core Insulation</b>           | rubber (EPR) EI4  |
| <b>Core Color</b>                | HD 308 S2   |
| <b>Stranding Elements</b>        | cores twisted   |
| <b>Outer Insulation Material</b> | polychloroprene compound  |
| <b>Constant Against</b>          | ozone, oils and greases   |

## Technical Data

|                                     |                                |
|-------------------------------------|--------------------------------|
| <b>Nominal Voltage</b>              | U <sub>0</sub> /U: 450 /750 V  |
| <b>Nominal Voltage DC</b>           | U <sub>0</sub> /U: 675 /1125 V |
| <b>Test Voltage</b>                 | 2500 V                         |
| <b>Bending Radius moved (xD)</b>    | 7                              |
| <b>Bending Radius fixed (xD)</b>    | 4                              |
| <b>Operating Temperature solid</b>  | -40 °C to 60 °C                |
| <b>Operating Temperature moving</b> | -25 °C to 60 °C                |
| <b>Short Circuit Temperature</b>    | 200 °C                         |
| <b>Short Circuit Duration</b>       | 5 sek.                         |
| <b>Fire Classes</b>                 | Eca                            |

| Art. Nr.<br>Prod. Nr. | Option<br>Option | Abmessung<br>Dimensions | Farbe<br>Color  | Gewicht (kg/km) ca.<br>Weight (kg/km) approx. | Außen-Durchmesser (mm) ca.<br>Outer-Diameter (mm) approx. | Strombelastbarkeit Luft (A)<br>Power Load Air (A) |
|-----------------------|------------------|-------------------------|-----------------|---|---|---|
| 00404088              | X                | 1 x 1,5                 | schwarz - black | 59,0  | 6,0   | 24  |
| 00404001              | X                | 1 x 2,5                 | schwarz - black | 72,0  | 6,7   | 32  |
| 00404002              | X                | 1 x 4                   | schwarz - black | 99,0  | 7,4   | 42  |
| 00404003              | X                | 1 x 6                   | schwarz - black | 130,0   | 8,4   | 54  |
| 00404004              | X                | 1 x 10                  | schwarz - black | 230,0   | 10,5  | 73  |
| 00404005              | X                | 1 x 16                  | schwarz - black | 270,0   | 12,0  | 98  |
| 00404006              | X                | 1 x 25                  | schwarz - black | 380,0   | 14,0  | 129   |
| 00404007              | X                | 1 x 35                  | schwarz - black | 495,0   | 15,6  | 158   |
| 00404008              | X                | 1 x 50                  | schwarz - black | 675,0   | 18,0  | 198   |
| 00404009              | X                | 1 x 70                  | schwarz - black | 910,0   | 20,5  | 245   |
| 00404010              | X                | 1 x 95                  | schwarz - black | 1.190,0                                       | 22,6  | 292   |
| 00404011              | X                | 1 x 120                 | schwarz - black | 1.450,0                                       | 25,0  | 344   |
| 00404012              | X                | 1 x 150                 | schwarz - black | 1.783,0                                       | 27,0  | 391   |
| 00404013              | X                | 1 x 185                 | schwarz - black | 2.125,0                                       | 29,0  | 448   |
| 00404014              | X                | 1 x 240                 | schwarz - black | 2.750,0                                       | 33,0  | 528   |
| 00404086              | X                | 1 x 300                 | schwarz - black | 3.350,0                                       | 37,0  | 608   |
| 00404121              | X                | 1 x 400                 | schwarz - black | 4.600,0                                       | 42,0  | 726   |
| 00404168              | X                | 1 x 500                 | schwarz - black | 5.600,0                                       | 45,0  | 830   |
| 00404016              | X                | 2 x 1                   | schwarz - black | 92,0  | 8,4   | 15  |
| 00404019              | X                | 2 x 1,5                 | schwarz - black | 120,0   | 9,2   | 18  |
| 00404030              | X                | 2 x 2,5                 | schwarz - black | 175,0   | 11,0  | 25  |
| 00404038              | X                | 2 x 4                   | schwarz - black | 250,0   | 12,5  | 34  |
| 00404104              | X                | 2 x 6                   | schwarz - black | 350,0   | 14,0  | 43  |
| 00404085              | X                | 2 x 10                  | schwarz - black | 560,0   | 19,0  | 60  |

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|-----------------------|------------------|-------------------------|-----------------|---|---|---|
| 00404115              | X                | 2 x 16                  | schwarz - black | 810,0   | 21,0  | 79  |
| 00404116              | X                | 2 x 25                  | schwarz - black | 1.160,0                                       | 26,0  | 105   |
| 00404017              | G                | 3 G 1                   | schwarz - black | 110,0   | 8,8   | 15  |
| 00404020              | G                | 3 G 1,5                 | schwarz - black | 145,0   | 9,9   | 19  |
| 00404031              | G                | 3 G 2,5                 | schwarz - black | 210,0   | 11,8  | 26  |
| 00404039              | G                | 3 G 4                   | schwarz - black | 280,0   | 13,5  | 35  |
| 00404044              | G                | 3 G 6                   | schwarz - black | 380,0   | 15,2  | 44  |
| 00404047              | G                | 3 G 10                  | schwarz - black | 675,0   | 20,0  | 62  |
| 00404050              | G                | 3 G 16                  | schwarz - black | 890,0   | 23,0  | 82  |
| 00404105              | G                | 3 G 25                  | schwarz - black | 1.250,0                                       | 27,5  | 109   |
| 00404082              | G                | 3 G 35                  | schwarz - black | 1.850,0                                       | 30,0  | 135   |
| 00404087              | G                | 3 G 50                  | schwarz - black | 2.780,0                                       | 40,0  | 169   |
| 00404096              | G                | 3 G 120                 | schwarz - black | 5.200,0                                       |   | 250   |
| 00404018              | G                | 4 G 1                   | schwarz - black | 135,0   | 10,0  | 12  |
| 00404021              | G                | 4 G 1,5                 | schwarz - black | 170,0   | 10,9  | 15  |
| 00404032              | G                | 4 G 2,5                 | schwarz - black | 241,0   | 13,0  | 21  |
| 00404040              | G                | 4 G 4                   | schwarz - black | 336,0   | 14,6  | 29  |
| 00404045              | G                | 4 G 6                   | schwarz - black | 450,0   | 16,6  | 36  |
| 00404048              | G                | 4 G 10                  | schwarz - black | 835,0   | 21,8  | 51  |
| 00404051              | G                | 4 G 16                  | schwarz - black | 1.142,0                                       | 25,8  | 67  |
| 00404053              | G                | 4 G 25                  | schwarz - black | 1.720,0                                       | 30,0  | 89  |
| 00404055              | G                | 4 G 35                  | schwarz - black | 2.210,0                                       | 34,8  | 110   |
| 00404057              | G                | 4 G 50                  | schwarz - black | 3.030,0                                       | 40,0  | 138   |
| 00404059              | G                | 4 G 70                  | schwarz - black | 3.680,0                                       | 45,0  | 172   |

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|-----------------------|------------------|-------------------------|-----------------|---|---|---|
| 00404060              | G                | 4 G 95                  | schwarz - black | 5.365,0                                       | 51,0  | 204   |
| 00404061              | G                | 4 G 120                 | schwarz - black | 7.829,0                                       | 59,0  | 238   |
| 00404062              | G                | 4 G 150                 | schwarz - black | 8.100,0                                       | 61,0  | 273   |
| 00404083              | G                | 4 G 185                 | schwarz - black | 9.656,0                                       | 66,0  | 309   |
| 00404092              | G                | 4 G 240                 | schwarz - black | 12.614,0                                      | 74,0  | 365   |
| 00404107              | G                | 5 G 1                   | schwarz - black | 160,0   | 11,0  | 13  |
| 00404022              | G                | 5 G 1,5                 | schwarz - black | 220,0   | 13,0  | 16  |
| 00404033              | G                | 5 G 2,5                 | schwarz - black | 320,0   | 15,0  | 22  |
| 00404041              | G                | 5 G 4                   | schwarz - black | 435,0   | 16,0  | 30  |
| 00404046              | G                | 5 G 6                   | schwarz - black | 575,0   | 18,0  | 37  |
| 00404049              | G                | 5 G 10                  | schwarz - black | 1.015,0                                       | 24,0  | 52  |
| 00404052              | G                | 5 G 16                  | schwarz - black | 1.500,0                                       | 29,0  | 69  |
| 00404054              | G                | 5 G 25                  | schwarz - black | 2.110,0                                       | 34,0  | 92  |
| 00404056              | G                | 5 G 35                  | schwarz - black | 2.790,0                                       | 36,0  | 114   |
| 00404058              | G                | 5 G 50                  | schwarz - black | 3.900,0                                       | 44,0  | 143   |
| 00404112              | G                | 5 G 70                  | schwarz - black | 5.166,0                                       | 51,0  | 178   |
| 00404113              | G                | 5 G 95                  | schwarz - black | 6.662,0                                       | 58,0  | 210   |
| 00404128              | G                | 5 G 120                 | schwarz - black | 8.051,0                                       | 63,0  | 246   |
| 00404143              | G                | 5 G 150                 | schwarz - black | 10.500,0                                      | 70,0  | 282   |
| 00404178              | G                | 5 G 185                 | schwarz - black | 11.958,0                                      | 74,8  | 319   |
| 00404179              | G                | 5 G 240                 | schwarz - black | 16.330,0                                      | 88,0  | 377   |
| 00404023              | G                | 7 G 1,5                 | schwarz - black | 305,0   | 16,0  | 16  |
| 00404034              | G                | 7 G 2,5                 | schwarz - black | 485,0   | 17,0  | 0   |
| 00404042              | G                | 7 G 4                   | schwarz - black | 703,0   | 22,5  | 0   |

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|-----------------------|------------------|-------------------------|-----------------|---|---|---|
| 00404114              | G                | 7 G 6                   | schwarz - black | 1.020,0                                       | 26,0  | 0   |
| 00404024              | G                | 9 G 1,5                 | schwarz - black | 403,0   | 17,0  | 0   |
| 00404111              | G                | 10 G 1,5                | schwarz - black | 460,0   | 17,0  | 0   |
| 00404025              | G                | 12 G 1,5                | schwarz - black | 505,0   | 18,0  | 0   |
| 00404035              | G                | 12 G 2,5                | schwarz - black | 799,0   | 22,0  | 0   |
| 00404043              | G                | 12 G 4                  | schwarz - black | 1.020,0                                       | 26,0  | 0   |
| 00404026              | G                | 18 G 1,5                | schwarz - black | 590,0   | 20,0  | 0   |
| 00404090              | G                | 18 G 2,5                | schwarz - black | 1.060,0                                       | 32,0  | 0   |
| 00404027              | G                | 19 G 1,5                | schwarz - black | 630,0   | 20,0  | 0   |
| 00404036              | G                | 19 G 2,5                | schwarz - black | 1.100,0                                       | 26,0  | 0   |
| 00404028              | G                | 24 G 1,5                | schwarz - black | 750,0   | 23,0  | 0   |
| 00404037              | G                | 24 G 2,5                | schwarz - black | 1.250,0                                       | 31,0  | 0   |
| 00404029              | G                | 27 G 1,5                | schwarz - black | 1.077,0                                       | 28,0  | 0   |