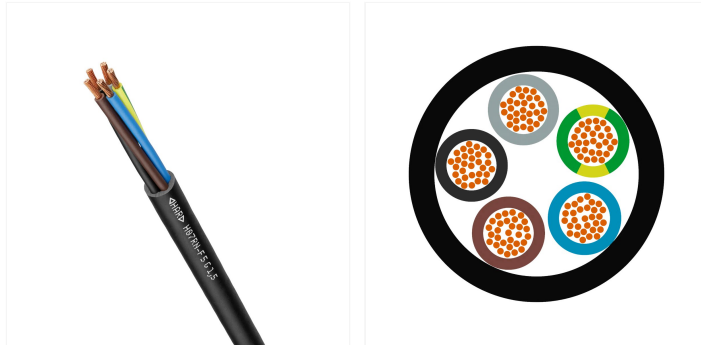


**H07RN-F 7G2,5****Article No.:** 1600152

Power and control cable; 7G2.5; HAR certified;  $U_0/U$ : 450/750 V; Rubber; Conductor identification: Numbers; Flexible

**Details****Benefits**

- Made according to harmonized European type H07RN-F, with <HAR> testing mark for proven reliability and quality.
- <HAR> cables are widely accepted and can be used in Europe.
- Single-conductor cables of this type can be used for short circuit-proof and short-to-ground-proof installation.
- Versatile use in various applications and environments.

**Application**

- For use with hand-held or power supply devices as well as commercial and agricultural machine tools.
- For fixed or free installation or installation in protective cable conduits.
- In the case of fixed and protected installation, operation is also possible up to 1000 V.
- Can be used in dry, wet and especially in harsh and oily environments.
- Withstands heavy mechanical stress.
- Suitable for outdoor use, subject to the temperature range.
- Flexible use at temperatures down to -25°C.

**Notes**

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

If applicable, the prices are solid metal prices without additional charges and VAT. Sales only to business customers.

Unless specified otherwise, the product values shown are rated values at room temperature. You can receive additional values, such as tolerances, upon request if they are available and have been released for publication.

The absence of PWIS raw materials does not protect against the potential risk of contamination with substances that interfere with the paint wetting during subsequent handling of the product(s) during transport, storage or further processing after delivery.

Trade product, not a LAPP product.

**Remarks**

Trade product, not a LAPP product.

Technical Data

**General information**

|                  |  |
|------------------|--|
| Product type     | Power and control cable  |
| Copper index     | 1128.8 lb/10000 ft   |
| Industry segment | <ul style="list-style-type: none"> <li>Agricultural &amp; Farm Machinery</li> <li>Assembly Machines</li> <li>Automotive</li> <li>Construction Machinery</li> <li>Energy</li> <li>Food &amp; Beverage</li> <li>Healthcare &amp; Pharma</li> <li>Heating, Ventilation, Air Conditioning &amp; Refrigeration</li> <li>Intralogistics &amp; Material handling</li> <li>Lifts &amp; Elevators</li> <li>Machine Tools</li> <li>Packaging</li> <li>Process Industry</li> <li>Robotics</li> <li>Rolling Stock</li> <li>Ships &amp; boats</li> <li>Solar</li> </ul> |

**Electrical parameters**

|                             |  |
|-----------------------------|--|
| Nominal voltage             | U <sub>0</sub> /U: 450/750 V AC rms according to IEC |
| test voltage                | 2.5 kV   |
| Current rating according to | VDE 0298-4   |

**Product design**

|  |                              |
|--|------------------------------|
| Harmonized product type                            | H07RN-F                      |
| Cable dimension                                    | 7G2.5                        |
| Nominal cross section conductor (mm <sup>2</sup> ) | 2.5 mm <sup>2</sup>          |
| Conductor material                                 | Bare Copper                  |
| Conductor design                                   | IEC 60228 class 5: fine-wire |
| Including protective ground                        | Yes                          |
| Number of cores                                    | 7                            |
| Shielded   | No                           |
| Min. outer diameter                                | 0.673 in                     |
| Max. outer diameter                                | 0.858 in                     |
| Cable form   | Round                        |
| Core insulation base material                      | Rubber                       |
| Basic material of outer jacket                     | Rubber                       |
| Outer jacket color                                 | black                        |
| Core identification                                | Numbers                      |

**Product features**

|  |                                |
|--|--------------------------------|
| Application area                                   | Flexible<br>Fixed Installation |
| For torsional load                                 | No                             |
| Minimum bending radius, stationary                 | 4 x outer diameter             |
| Minimum bending radius in inch, fixed installation | 3.433 in                       |
| Minimum bending radius, occasionally moved         | 6 x outer diameter             |
| Minimum bending radius in mm, occasionally moved   | 5.15 in                        |

|                                 |  |
|---------------------------------|--|
| Temperature, fixed installation | -40 °C to 60 °C max. conductor temperature                                     |
| Temperature, occasionally moved | -25 °C to 60 °C max. conductor temperature                                     |
| Installation temperature min.   | -25 °C   |
| Storage temperature max.        | -25 °C   |
| Storage temperature maximum     | 40 °C  |
| Flame-retardant                 | Yes  |
| Flame retardance according to   | IEC 60332-1-2  |
| UV-resistant                    | Yes  |
| UV-resistant according to       | EN 50525-1 (cables with a black jacket are suitable for permanent outdoor use) |
| Halogenfree                     | No   |
| Oil resistant                   | Yes  |
| Oil resistance according to     | EN 50363-2-1   |
| PWIS-free                       | Yes  |
| PWIS-free according to          | VDMA 24364-B2-L  |
| Permanently immersible in water | No   |

#### Certifications and standards

|   |  |
|---|--|
| CE marking  | Yes  |
| EAC certified   | Yes  |
| EAC certification number  | EA3C RU C-DE.A1064.B.00091/19, EA3C RU C-DE.A1064.B.00110/20 |
| UL recognized   | No   |
| UL listed   | No   |
| cUR recognized  | No   |
| cUL listed  | No   |
| CSA certified   | No   |
| VDE certified   | No   |
| HAR-certified   | Yes  |
| Product standard DIN / EN                                       | EN 50525-2-21  |
| CPR fire class  | Eca  |
| Resistance to flame propagation tested according to UN/ECE-R118 | No   |

**H07RN-F**

| Article No. | Name          | Number of cores | Including protective ground | Nominal cross section conductor (mm <sup>2</sup> ) | Min. outer diameter | Max. outer diameter | Copper index         |
|-------------|---------------|-----------------|-----------------------------|--|---------------------|---------------------|----------------------|
| 1600086     | H07RN-F 5G95  | 5               | Yes                         | 95 mm <sup>2</sup>                                 | 2.126 in            | 2.638 in            | 30674.03 lb/10000 ft |
| 16000883    | H07RN-F 4G150 | 4               | Yes                         | 150 mm <sup>2</sup>                                | 2.283 in            | 2.874 in            | 38705.4 lb/10000 ft  |
| 1600096     | H07RN-F 1X1,5 | 1               | No                          | 1.5 mm <sup>2</sup>                                | 0.224 in            | 0.28 in             | 96.75 lb/10000 ft    |
| 1600097     | H07RN-F 1X4   | 1               | No                          | 4 mm <sup>2</sup>                                  | 0.283 in            | 0.354 in            | 258 lb/10000 ft      |
| 1600098     | H07RN-F 1X6   | 1               | No                          | 6 mm <sup>2</sup>                                  | 0.311 in            | 0.386 in            | 387 lb/10000 ft      |
| 1600099     | H07RN-F 1X2,5 | 1               | No                          | 2.5 mm <sup>2</sup>                                | 0.248 in            | 0.311 in            | 161.26 lb/10000 ft   |
| 1600103     | H07RN-F 3G1,5 | 3               | Yes                         | 1.5 mm <sup>2</sup>                                | 0.362 in            | 0.469 in            | 290.26 lb/10000 ft   |
| 16001043    | H07RN-F 5G1,5 | 5               | Yes                         | 1.5 mm <sup>2</sup>                                | 0.441 in            | 0.567 in            | 483.76 lb/10000 ft   |
| 16001053    | H07RN-F 4G2,5 | 4               | Yes                         | 2.5 mm <sup>2</sup>                                | 0.476 in            | 0.61 in             | 645 lb/10000 ft      |
| 16001063    | H07RN-F 4G4   | 4               | Yes                         | 4 mm <sup>2</sup>                                  | 0.551 in            | 0.705 in            | 1032.03 lb/10000 ft  |
| 16001073    | H07RN-F 4G6   | 4               | Yes                         | 6 mm <sup>2</sup>                                  | 0.618 in            | 0.787 in            | 1548.05 lb/10000 ft  |
| 16001083    | H07RN-F 4G10  | 4               | Yes                         | 10 mm <sup>2</sup>                                 | 0.823 in            | 1.043 in            | 2580.1 lb/10000 ft   |
| 16001093    | H07RN-F 5G10  | 5               | Yes                         | 10 mm <sup>2</sup>                                 | 0.902 in            | 1.146 in            | 3225.1 lb/10000 ft   |
| 16001103    | H07RN-F 4G16  | 4               | Yes                         | 16 mm <sup>2</sup>                                 | 0.937 in            | 1.185 in            | 4128.15 lb/10000 ft  |
| 16001113    | H07RN-F 5G16  | 5               | Yes                         | 16 mm <sup>2</sup>                                 | 1.039 in            | 1.311 in            | 5160.2 lb/10000 ft   |
| 16001123    | H07RN-F 4G25  | 4               | Yes                         | 25 mm <sup>2</sup>                                 | 1.138 in            | 1.441 in            | 6450.24 lb/10000 ft  |
| 16001133    | H07RN-F 5G25  | 5               | Yes                         | 25 mm <sup>2</sup>                                 | 1.26 in             | 1.591 in            | 8062.8 lb/10000 ft   |
| 16001143    | H07RN-F 4G35  | 4               | Yes                         | 35 mm <sup>2</sup>                                 | 1.28 in             | 1.63 in             | 9030.33 lb/10000 ft  |
| 16001153    | H07RN-F 4G50  | 4               | Yes                         | 50 mm <sup>2</sup>                                 | 1.484 in            | 1.87 in             | 12900.5 lb/10000 ft  |
| 16001163    | H07RN-F 4G70  | 4               | Yes                         | 70 mm <sup>2</sup>                                 | 1.681 in            | 2.126 in            | 18060.7 lb/10000 ft  |
| 1600117     | H07RN-F 3G1   | 3               | Yes                         | 1 mm <sup>2</sup>                                  | 0.327 in            | 0.421 in            | 193.5 lb/10000 ft    |
| 1600118     | H07RN-F 3G2,5 | 3               | Yes                         | 2.5 mm <sup>2</sup>                                | 0.429 in            | 0.551 in            | 483.76 lb/10000 ft   |
| 1600119     | H07RN-F 3G4   | 3               | Yes                         | 4 mm <sup>2</sup>                                  | 0.5 in              | 0.638 in            | 774.02 lb/10000 ft   |
| 1600120     | H07RN-F 3G6   | 3               | Yes                         | 6 mm <sup>2</sup>                                  | 0.555 in            | 0.709 in            | 1161.04 lb/10000 ft  |
| 1600121     | H07RN-F 3G10  | 3               | Yes                         | 10 mm <sup>2</sup>                                 | 0.752 in            | 0.953 in            | 1935.1 lb/10000 ft   |
| 1600122     | H07RN-F 3G16  | 3               | Yes                         | 16 mm <sup>2</sup>                                 | 0.858 in            | 1.087 in            | 3096.1 lb/10000 ft   |
| 16001233    | H07RN-F 4G1,5 | 4               | Yes                         | 1.5 mm <sup>2</sup>                                | 0.402 in            | 0.516 in            | 387 lb/10000 ft      |
| 1600124     | H07RN-F 3G35  | 3               | Yes                         | 35 mm <sup>2</sup>                                 | 1.154 in            | 1.461 in            | 6772.75 lb/10000 ft  |
| 1600126     | H07RN-F 5G50  | 5               | Yes                         | 50 mm <sup>2</sup>                                 | 1.646 in            | 2.087 in            | 16127.25 lb/10000 ft |
| 16001283    | H07RN-F 4G95  | 4               | Yes                         | 95 mm <sup>2</sup>                                 | 1.906 in            | 2.402 in            | 24510.9 lb/10000 ft  |

| Article No. | Name           | Number of cores | Including protective ground | Nominal cross section conductor (mm <sup>2</sup> ) | Min. outer diameter | Max. outer diameter | Copper index         |
|-------------|----------------|-----------------|-----------------------------|--|---------------------|---------------------|----------------------|
| 16001293    | H07RN-F 5G2,5  | 5               | Yes                         | 2.5 mm <sup>2</sup>                                | 0.524 in            | 0.669 in            | 806.3 lb/10000 ft    |
| 16001303    | H07RN-F 5G4    | 5               | Yes                         | 4 mm <sup>2</sup>                                  | 0.614 in            | 0.783 in            | 1290 lb/10000 ft     |
| 16001313    | H07RN-F 5G6    | 5               | Yes                         | 6 mm <sup>2</sup>                                  | 0.689 in            | 0.874 in            | 1935.07 lb/10000 ft  |
| 16001323    | H07RN-F 4G120  | 4               | Yes                         | 120 mm <sup>2</sup>                                | 2.087 in            | 2.598 in            | 30964.32 lb/10000 ft |
| 16001363    | H07RN-F 5G35   | 5               | Yes                         | 35 mm <sup>2</sup>                                 | 1.406 in            | 1.776 in            | 11287.9 lb/10000 ft  |
| 1600148     | H07RN-F 12G1,5 | 12              | Yes                         | 1.5 mm <sup>2</sup>                                | 0.693 in            | 0.882 in            | 1161 lb/10000 ft     |
| 1600151     | H07RN-F 7G1,5  | 7               | Yes                         | 1.5 mm <sup>2</sup>                                | 0.579 in            | 0.736 in            | 677.3 lb/10000 ft    |
| 1600152     | H07RN-F 7G2,5  | 7               | Yes                         | 2.5 mm <sup>2</sup>                                | 0.673 in            | 0.858 in            | 1128.8 lb/10000 ft   |
| 1600154     | H07RN-F 12G2,5 | 12              | Yes                         | 2.5 mm <sup>2</sup>                                | 0.811 in            | 1.031 in            | 1935.1 lb/10000 ft   |
| 1600157     | H07RN-F 24G2,5 | 24              | Yes                         | 2.5 mm <sup>2</sup>                                | 1.134 in            | 1.433 in            | 3870.1 lb/10000 ft   |
| 1600161     | H07RN-F 7G4    | 7               | Yes                         | 4 mm <sup>2</sup>                                  | 0.791 in            | 1.004 in            | 1806.25 lb/10000 ft  |
| 1600166     | H07RN-F 24G1,5 | 24              | Yes                         | 1.5 mm <sup>2</sup>                                | 0.957 in            | 1.209 in            | 2322.32 lb/10000 ft  |
| 1600175     | H07RN-F 1X185  | 1               | No                          | 185 mm <sup>2</sup>                                | 1.087 in            | 1.354 in            | 11932.9 lb/10000 ft  |
| 1600177     | H07RN-F 1X240  | 1               | No                          | 240 mm <sup>2</sup>                                | 1.205 in            | 1.508 in            | 15480.6 lb/10000 ft  |
| 1600186     | H07RN-F 2X4    | 2               | No                          | 4 mm <sup>2</sup>                                  | 0.465 in            | 0.594 in            | 516 lb/10000 ft      |
| 1600187     | H07RN-F 2X2,5  | 2               | No                          | 2.5 mm <sup>2</sup>                                | 0.402 in            | 0.516 in            | 322.5 lb/10000 ft    |
| 1600189     | H07RN-F 1X70   | 1               | No                          | 70 mm <sup>2</sup>                                 | 0.732 in            | 0.917 in            | 4515.16 lb/10000 ft  |
| 1600190     | H07RN-F 1X95   | 1               | No                          | 95 mm <sup>2</sup>                                 | 0.819 in            | 1.024 in            | 6127.7 lb/10000 ft   |
| 1600191     | H07RN-F 1X150  | 1               | No                          | 150 mm <sup>2</sup>                                | 0.992 in            | 1.236 in            | 9675.4 lb/10000 ft   |
| 1600193     | H07RN-F 1X35   | 1               | No                          | 35 mm <sup>2</sup>                                 | 0.563 in            | 0.705 in            | 2257.6 lb/10000 ft   |
| 1600194     | H07RN-F 1X10   | 1               | No                          | 10 mm <sup>2</sup>                                 | 0.374 in            | 0.469 in            | 645 lb/10000 ft      |
| 1600195     | H07RN-F 1X16   | 1               | No                          | 16 mm <sup>2</sup>                                 | 0.425 in            | 0.528 in            | 1032 lb/10000 ft     |
| 1600196     | H07RN-F 1X25   | 1               | No                          | 25 mm <sup>2</sup>                                 | 0.5 in              | 0.622 in            | 1612.6 lb/10000 ft   |
| 1600197     | H07RN-F 1X50   | 1               | No                          | 50 mm <sup>2</sup>                                 | 0.65 in             | 0.811 in            | 3225.1 lb/10000 ft   |
| 1600198     | H07RN-F 1X120  | 1               | No                          | 120 mm <sup>2</sup>                                | 0.898 in            | 1.126 in            | 7740.3 lb/10000 ft   |
| 1600199     | H07RN-F 2X1,5  | 2               | No                          | 1.5 mm <sup>2</sup>                                | 0.335 in            | 0.433 in            | 193.5 lb/10000 ft    |
| 1600259     | H07RN-F 19G1,5 | 19              | Yes                         | 1.5 mm <sup>2</sup>                                | 0.815 in            | 1.209 in            | 1838.3 lb/10000 ft   |
| 1600263     | H07RN-F 25G1,5 | 25              | Yes                         | 1.5 mm <sup>2</sup>                                | 0.988 in            | 1.386 in            | 2419.09 lb/10000 ft  |
| 30015435    | H07RN-F 1X300  | 1               | No                          | 300 mm <sup>2</sup>                                | 1.319 in            | 1.65 in             | 19350.7 lb/10000 ft  |
| 38102227    | H07RN-F 5G70   | 5               | Yes                         | 70 mm <sup>2</sup>                                 | 1.87 in             | 2.362 in            | 22578.28 lb/10000 ft |

V1.1