

H07RN-F Technical Data Sheet



| Rated Voltage | Max. Operating Temperature | Min. Temperature of Installation | Max. Temperature of Short Circuit | Min. Internal Bending Radius | Max. Mechanical Stress |
|---------------|----------------------------|----------------------------------|-----------------------------------|------------------------------|------------------------|
| 450/750V | 60°C | -25°C | 200°C | 6 x OD | 5 Kg/mm |

Conductor: Class 5 flexible bare copper to EN 60228, IEC 60228

Insulation: EPR (Ethylene-Propylene Rubber) type E14

Cores:
 2 Core: Brown, Blue
 3 Core: Brown, Blue, Green/Yellow
 4 Core: Grey, Brown, Black, Green/Yellow
 5 Core: Brown, Blue, Green/Yellow, Black, Grey

Sheath: (PCP) Elastomeric Reticulated Polychloroprene type EM2 or other equivalent synthetic elastomer

Standards: CEI 20-19/4, (HD 22.4-EN 50525-2-21), RoHS 2011/65/UE

Application: This cable is suitable for use in dry, humid or moist rooms and in open air. Suitable for use in industrial and agricultural workshop appliances, large boiling installations, heating plates, portable lamps, electrical tools and transportable motors or generators.

| Size (No x mm) | Mean Overall Diameter (mm) (± 0.2mm) | Indicative Weight of Cable (g/mm) | Conductor Max. Diameter of wires (mm) | Conductor Max. Resistance (Ohms/KM @ 20c) | Insulation Thickness (mm) | Sheath Thickness (mm) | Current (A) Ratings With Ambient Temp. Lower Than 30c | |
|-------------------|--|--------------------------------------|--|---|------------------------------|--------------------------|---|-----|
| | | | | | | | *FM | *FI |
| 2x1 | 8 | 88 | 0.210 | 19,500 | 0.62 - 0.8 | 1.00 - 1.3 | 15 | 17 |
| 3x1 | 8.7 | 108 | 0.210 | 19,500 | 0.62 - 0.8 | 1.09 - 1.4 | 15 | 17 |
| 4x1 | 9.7 | 136 | 0.210 | 19,500 | 0.62 - 0.8 | 1.18 - 1.5 | 13.5 | 17 |
| 5x1 | 11 | 174 | 0.210 | 19,500 | 0.62 - 0.8 | 1.26 - 1.6 | 13.5 | 17 |
| 1x1.5 | 6 | 52 | 0.260 | 13,300 | 0.62 - 0.8 | 1.09 - 1.4 | 17.5 | 22 |
| 2x1.5 | 9 | 114 | 0.260 | 13,300 | 0.62 - 0.8 | 1.18 - 1.5 | 19.5 | 22 |
| 3x1.5 | 9.7 | 139 | 0.260 | 13,300 | 0.62 - 0.8 | 1.26 - 1.6 | 19.5 | 22 |
| 4x1.5 | 10.9 | 178 | 0.260 | 13,300 | 0.62 - 0.8 | 1.35 - 1.7 | 17.5 | 22 |
| 5x1.5 | 12 | 217 | 0.260 | 13,300 | 0.62 - 0.8 | 1.43 - 1.8 | 17.5 | 22 |
| 1x2.5 | 6.7 | 69 | 0.260 | 7,980 | 0.71 - 0.9 | 1.09 - 1.4 | 24 | 30 |
| 2x2.5 | 10.4 | 158 | 0.260 | 7,980 | 0.71 - 0.9 | 1.35 - 1.7 | 26 | 30 |
| 3x2.5 | 11.4 | 200 | 0.260 | 7,980 | 0.71 - 0.9 | 1.43 - 1.8 | 26 | 30 |
| 4x2.5 | 12.7 | 253 | 0.260 | 7,980 | 0.71 - 0.9 | 1.51 - 1.9 | 24 | 30 |
| 5x2.5 | 14 | 309 | 0.260 | 7,980 | 0.71 - 0.9 | 1.60 - 2.0 | 24 | 30 |
| 1x4 | 7.5 | 91 | 0.310 | 4,950 | 0.80 - 1.0 | 1.18 - 1.5 | 32 | 40 |
| 2x4 | 12.2 | 223 | 0.310 | 4,950 | 0.80 - 1.0 | 1.43 - 1.8 | 35 | 40 |
| 3x4 | 13 | 273 | 0.310 | 4,950 | 0.80 - 1.0 | 1.51 - 1.9 | 32 | 40 |
| 4x4 | 14.3 | 340 | 0.310 | 4,950 | 0.80 - 1.0 | 1.60 - 2.0 | 32 | 40 |
| 5x4 | 16 | 426 | 0.310 | 4,950 | 0.80 - 1.0 | 1.77 - 2.2 | 32 | 40 |
| 1x6 | 8.3 | 119 | 0.310 | 3,300 | 0.80 - 1.0 | 1.26 - 1.6 | 41 | 52 |
| 2x6 | 13.6 | 291 | 0.310 | 3,300 | 0.80 - 1.0 | 1.60 - 2.0 | 46 | 52 |
| 3x6 | 14.7 | 366 | 0.310 | 3,300 | 0.80 - 1.0 | 1.68 - 2.1 | 46 | 52 |
| 4x6 | 16.5 | 470 | 0.310 | 3,300 | 0.80 - 1.0 | 1.85 - 2.3 | 41 | 52 |
| 5x6 | 18.4 | 586 | 0.310 | 3,300 | 0.80 - 1.0 | 2.03 - 2.5 | 41 | 52 |

*FM=Free Movement *FI=Fixed Installation

| Size (No x mm) | Mean Overall Diameter (mm) (± 0.2mm) | Indicative Weight of Cable (g/mm) | Conductor Max. Diameter of wires (mm) | Conductor Max. Resistance (Ohms/KM @ 20c) | Insulation Thickness (mm) | Sheath Thickness (mm) | Current (A) Ratings With Ambient Temp. Lower Than 30c | |
|-------------------|--|--------------------------------------|--|--|------------------------------|--------------------------|---|------|
| | | | | | | | *FM | * FI |
| 2x10 | 18.6 | 563 | 0.41 | 19,100 | 1.2 | - | - | - |
| 3x10 | 19.9 | 705 | 0.41 | 19,100 | 1.2 | - | - | - |
| 4x10 | 21.8 | 833 | 0.41 | 19,100 | 1.2 | - | - | - |
| 5x10 | 24 | 1010 | 0.41 | 19,100 | 1.2 | - | - | - |