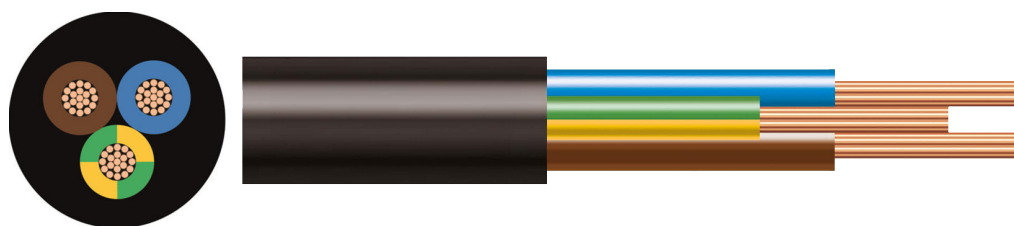


318-TRS / H05RR-F RUBBER FLEXIBLE CABLE



Introducing our versatile cable solution, the H05RR-F Flexible Rubber Cable, crafted to endure diverse conditions. It excels in both domestic and office settings, offering dependable power for an array of appliances in kitchens and workspaces alike. With flexible stranded copper or tinned annealed copper conductors and ethylene propylene rubber insulation, it ensures durability and safety even in damp environments. Trust in its flexibility and toughness for seamless performance indoors.

| | |
|-------------------------------|--|
| CONDUCTOR | Plain Copper |
| STRANDING | Class 5 |
| INSULATION | EPR |
| OUTERSHEATH | TRS |
| OUTERSHEATH COLOUR | Black |
| RATED VOLTAGE | 300/500V |
| CORE IDENTIFICATION | 2 core: Blue & brown 3 core: Blue, brown & green/yellow 4 core: Black, brown, grey & green/yellow 5 core: Black, blue, brown, grey & green/yellow |
| MINIMUM BENDING RADIUS | 6 x overall diameter |
| OPERATING TEMPERATURE | Maximum 60°C, minimum bending -25°C |
| STANDARDS | BS EN 50525-2-21 |

SPECIFICATION DATA

| BATT Part No (Black) | Number of cores | Nominal Cross Sectional Area (mm2) | Nominal Thickness of Insulation (mm) | Nominal overall diameter (mm) |
|----------------------|-----------------|------------------------------------|--------------------------------------|-------------------------------|
| 22133 | 2 | 0.75 | 0.6 | 6.1 |
| 22138 | 2 | 1.0 | 0.6 | 6.6 |
| 22143 | 2 | 1.5 | 0.8 | 7.8 |
| 22146 | 2 | 2.5 | 0.9 | 9.2 |
| 22174 | 3 | 0.75 | 0.6 | 6.6 |
| 22181 | 3 | 1.0 | 0.6 | 7 |
| 22189 | 3 | 1.5 | 0.8 | 8.4 |
| 22195 | 3 | 2.5 | 0.9 | 9.9 |
| 22244 | 4 | 0.75 | 0.6 | 7.3 |
| 22245 | 4 | 1.0 | 0.6 | 7.6 |
| 22246 | 4 | 1.5 | 0.8 | 9.4 |
| 22259 | 4 | 2.5 | 0.9 | 11.1 |
| 22125 | 5 | 0.75 | 0.6 | 8.1 |
| 22126 | 5 | 1.0 | 0.6 | 8.4 |
| 22431 | 5 | 1.5 | 0.8 | 10.3 |
| 22405 | 5 | 2.5 | 0. | 12.4 |

RATING TABLES

COPPER
CONDUCTORS

TABLE 4F1A – 60 °C thermosetting insulated flexible cables with sheath,
non-armoured
(COPPER CONDUCTORS)

CURRENT-CARRYING CAPACITY (amperes): Ambient temperature: 30 °C
Conductor operating temperature: 60 °C

| Conductor cross-sectional area | Single-phase AC or DC | Three-phase AC | Single-phase AC or DC |
|--------------------------------|--|--|--------------------------------|
| | 1 two-core cable, with or without protective conductor | 1 three-core, four-core or five-core cable | 2 single-core cables, touching |
| 1 | 2 | 3 | 4 |
| (mm²) | (A) | (A) | (A) |
| 4 | 30 | 26 | - |
| 6 | 39 | 34 | - |
| 10 | 51 | 47 | - |
| 16 | 73 | 63 | - |
| 25 | 97 | 83 | - |
| 35 | - | 102 | 140 |
| 50 | - | 124 | 175 |
| 70 | - | 158 | 216 |
| 95 | - | 192 | 258 |
| 120 | - | 222 | 302 |
| 150 | - | 255 | 347 |
| 185 | - | 291 | 394 |
| 240 | - | 343 | 471 |
| 300 | - | 394 | 541 |
| 400 | - | - | 644 |
| 500 | - | - | 738 |
| 630 | - | - | 861 |

NOTES:

1. The current ratings tabulated are for cables in free air but may also be used for cables resting on a surface. If the cable is to be wound on a drum on load the ratings should be reduced in accordance with NOTE 2 below and for cables which may be covered, NOTE 3 below.
2. Flexible cables wound on reeling drums

The current ratings of cables used on reeling drums are to be reduced by the following factors:

a) Radial type drum

ventilated: 85 %
unventilated: 75 %

b) Ventilated cylindrical type drum

1 layer of cable: 85 %
2 layers of cable: 65 %
3 layers of cable: 45 %
4 layers of cable: 35 %

A radial type drum is one where spiral layers of cable are accommodated between closely spaced flanges; if fitted with solid flanges the ratings given above should be reduced and the drum is described as non-ventilated. If the flanges have suitable apertures the drum is described as ventilated.

A ventilated cylindrical cable drum is one where layers of cable are accommodated between widely spaced flanges and the drum and end flanges have suitable ventilating apertures.

3. Where cable may be covered over or coiled up whilst on load, or the air movement over the cable restricted, the current rating should be reduced.

It is not possible to specify the amount of reduction but the table of rating factors for reeling drums can be used as a guide.

TABLE 4F1B

VOLTAGE DROP (per ampere per metre):

Conductor operating temperature: 60 °C

| Conductor cross-sectional area 1 | Two-core cable, DC 2 | Two-core cable, single-phase AC 3 | | | 1 three-core, four-core or five-core cable, three-phase AC 4 | | | 2 single-core cables, touching | | | |
|-------------------------------------|-------------------------|--------------------------------------|-------|------|---|-------|-------|--------------------------------|-----------------------|-------|-------|
| | | | | | | | | DC 5 | Single-phase AC* 6 | | |
| (mm ²) | (mV/A/m) | (mV/A/m) | | | (mV/A/m) | | | (mV/A/m) | (mV/A/m) | | |
| 4 | 12 | 12 | | | 10 | | | - | - | | |
| 6 | 7.8 | 7.8 | | | 6.7 | | | - | - | | |
| 10 | 4.6 | 4.6 | | | 4.0 | | | - | - | | |
| 16 | 2.9 | 2.9 | | | 2.5 | | | - | - | | |
| | | r | x | z | r | x | z | | r | x | z |
| 25 | 1.80 | 1.80 | 0.175 | 1.85 | 1.55 | 0.150 | 1.55 | - | - | - | - |
| 35 | - | - | - | - | 1.10 | 0.150 | 1.15 | 1.31 | 1.31 | 0.21 | 1.32 |
| 50 | - | - | - | - | 0.83 | 0.145 | 0.84 | 0.91 | 0.91 | 0.21 | 0.93 |
| 70 | - | - | - | - | 0.57 | 0.140 | 0.58 | 0.64 | 0.64 | 0.20 | 0.67 |
| 95 | - | - | - | - | 0.42 | 0.135 | 0.44 | 0.49 | 0.49 | 0.195 | 0.53 |
| 120 | - | - | - | - | 0.33 | 0.135 | 0.36 | 0.38 | 0.38 | 0.190 | 0.43 |
| 150 | - | - | - | - | 0.27 | 0.130 | 0.30 | 0.31 | 0.31 | 0.190 | 0.36 |
| 185 | - | - | - | - | 0.22 | 0.130 | 0.26 | 0.25 | 0.25 | 0.190 | 0.32 |
| 240 | - | - | - | - | 0.170 | 0.130 | 0.21 | 0.190 | 0.195 | 0.185 | 0.27 |
| 300 | - | - | - | - | 0.135 | 0.125 | 0.185 | 0.150 | 0.155 | 0.180 | 0.24 |
| 400 | - | - | - | - | - | - | - | 0.115 | 0.120 | 0.175 | 0.21 |
| 500 | - | - | - | - | - | - | - | 0.090 | 0.099 | 0.170 | 0.20 |
| 630 | - | - | - | - | - | - | - | 0.068 | 0.079 | 0.170 | 0.185 |

NOTE: * A larger voltage drop will result if the cables are spaced.

The information in this datasheet is for guidance only and subject to change without liability. Images provided are representations; actual cable dimensions may vary due to manufacturing tolerances.

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