

## FEATURES

- A plain copper conductor
- A voltage rating of 600 / 1000 V
- Class 5 flexibility
- A HR PVC (Heat Resistant PVC) insulation

## RS PRO Single Core x 4.0sqmm (Class 5 PCW), HRPVC Insulated, 600/1000V, Tri-Rated

RS Stock No.: 811-1451



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## Product Description

From RS PRO a high quality Tri Rated cable with a 1 m length and colour coding recognised under the European Harmonised designation (HAR) codes H05V2-K and H07V2-K

## General Specifications

|                        |  |
|------------------------|--|
| <b>Type</b>            | Tri-rated  |
| <b>Tri-rated</b>       | Yes  |
| <b>Sheath Colour</b>   | Brown  |
| <b>Harmonised Code</b> | H05V2-K and H07V2-K  |
| <b>Application</b>     | Electrical cabinets, Switch control in power switchgear, Relay and instrumentation panels of power switchgear, Internal connectors in rectifier equipment, Motor starters and controllers, Small electrical devices, Industrial electrical installations, Panel building |

## Electrical Specifications

|                             |   |
|-----------------------------|---|
| <b>Voltage Rating</b>       | 600/1000V   |
| <b>Current Rating</b>       | 41A   |
| <b>Conductor Material</b>   | 52/0.295mm Plain Annealed Copper (Class 5 to IEC 60228) |
| <b>Insulation Material</b>  | HRPVC (Type TI3 to BS EN 50363)                         |
| <b>Conductor Resistance</b> | 4.95 $\Omega$ /km @ 20°C (Maximum)                      |

## Mechanical Specifications

|                                  |  |
|----------------------------------|--|
| <b>Length</b>                    | 100m                                     |
| <b>Cross Sectional Area</b>      | 4mm <sup>2</sup>                         |
| <b>Outer Diameter</b>            | 4.3mm                                    |
| <b>American Wire Gauge</b>       | 12                                       |
| <b>Core Strands</b>              | 52/0.3mm                                 |
| <b>Size of Strands</b>           | 0.3mm                                    |
| <b>Insulation Wall Thickness</b> | 0.8mm                                    |
| <b>Minimum Bend Radius</b>       | 6 x Overall Diameter                     |
| <b>Weight</b>                    | 49kg/km                                  |
| <b>Diameter Over Insulation</b>  | Lower Limit: 3.90mm; Upper Limit: 4.80mm |

## Operation Environment Specifications

|                                      |                           |
|--------------------------------------|---------------------------|
| <b>Maximum Operating Temperature</b> | 90°C                      |
| <b>Maximum Conductor Temperature</b> | 105°C in air; 60°C in oil |
| <b>Temperature Range</b>             | -15 to +105°C             |

## Approvals

|                                  |  |
|----------------------------------|--|
| <b>Compliance/Certifications</b> | UL & CSA                                 |
| <b>Standards Met</b>             | UL 1015 & CSA Type TEW & BS 6231 Type CK |



| AWM Size | Area mm <sup>2</sup> | Wire Type | UL Style | Nominal R/T (mm) | Nominal Diam (mm) | Current Rating (A) | Weight Kg/Km |
|----------|----------------------|-----------|----------|------------------|-------------------|--------------------|--------------|
| 22       | 0.5                  | 16/0.2    | 1015     | 0.80             | 2.6               | 11                 | 1            |
| 20       | 0.75                 | 24/0.2    | 1015     | 0.80             | 2.8               | 14                 | 14           |
| 18       | 1.0                  | 32/0.2    | 1015     | 0.80             | 3.0               | 17                 | 17           |
| 16       | 1.5                  | 30/0.25   | 1015     | 0.80             | 3.3               | 21                 | 22           |
| 14       | 2.5                  | 50/0.25   | 1015     | 0.80             | 3.7               | 30                 | 33           |
| 12       | 4.0                  | 56/0.3    | 1015     | 0.80             | 4.3               | 41                 | 49           |
| 10       | 6.0                  | 84/0.3    | 1015     | 0.80             | 5.1               | 53                 | 71           |
| 8        | 10                   | 80/0.4    | 1028     | 1.20             | 6.8               | 75                 | 124          |
| 6        | 16                   | 126/0.4   | 1283     | 1.58             | 9.2               | 100                | 199          |
| 4        | 25                   | 196/0.4   | 1283     | 1.58             | 10.6              | 136                | 290          |
| 2        | 35                   | 276/0.4   | 1283     | 1.58             | 11.6              | 167                | 387          |
| 1        | 50                   | 396/0.4   | 1284     | 2.10             | 14.4              | 190                | 570          |
| 2/0      | 70                   | 360/0.5   | 1284     | 2.10             | 16.5              | 240                | 781          |
| 3/0      | 95                   | 475/0.5   | 1284     | 2.10             | 18.7              | 300                | 1025         |
| 4/0      | 120                  | 608/0.5   | 1284     | 2.10             | 20.0              | 340                | 1280         |