

## FEATURES

- Maximum operating temperature of 70°C
- A voltage rating of 600/1000V
- 25m length
- Single core cable design

## RS PRO Black Single Core x 6.0sqmm (Class 5 PCW), PVC Insulated, 600/1000V, Type BK, 25m

RS Stock No.: 516-7906



RS PRO 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, comes a range of high quality and great value Tri-rated cables. Manufactured with a premium annealed copper conductor and insulated with PVC (Polyvinyl Chloride), these Tri-rated cables are a fantastic solution for use in control panels and other types of electrical equipment

### General Specifications

|                       |  |
|-----------------------|--|
| <b>Type</b>           | BK   |
| <b>Tri-rated</b>      | Yes  |
| <b>Sheath Colour</b>  | Black  |
| <b>Fire Behaviour</b> | Flame Retardant;   |
| <b>Application</b>    | Electrical cabinets, Industrial electrical installations, Small electronic devices, Relay and instrumentation panels, Control metering, Motor starters |

### Electrical Specifications

|                             |   |
|-----------------------------|---|
| <b>Voltage Rating</b>       | 600/1000V   |
| <b>Current Rating</b>       | 48A   |
| <b>Conductor Material</b>   | 78/0.295mm Plain Annealed Copper (Class 5 to IEC 60228) |
| <b>Insulation Material</b>  | PVC (Type TI1 to BS EN 50363)                           |
| <b>Conductor Resistance</b> | 3.30 $\Omega$ /km @ 20°C (Maximum)                      |

**Mechanical Specifications**

|                                  |   |
|----------------------------------|---|
| <b>Length</b>                    | 25m                                       |
| <b>Cross Sectional Area</b>      | 6mm <sup>2</sup>                          |
| <b>Outer Diameter</b>            | 4.9mm (+/-0.4mm)                          |
| <b>American Wire Gauge</b>       | 9   |
| <b>Core Strands</b>              | 80/0.3mm                                  |
| <b>Size of Strands</b>           | 0.3mm                                     |
| <b>Insulation Wall Thickness</b> | 0.80mm (Nominal)                          |
| <b>Minimum Bend Radius</b>       | 6 x Overall Diameter                      |
| <b>Weight</b>                    | 70.80kg/km                                |
| <b>Diameter Over Insulation</b>  | Lower Limit: 4.40mm ; Upper Limit: 5.30mm |

**Operation Environment Specifications**

|                          |              |
|--------------------------|--------------|
| <b>Temperature Range</b> | -15 to +70°C |
|--------------------------|--------------|

**Approvals**

|                      |              |
|----------------------|--------------|
| <b>Standards Met</b> | BS 6231:2006 |
|----------------------|--------------|





| AWM Size | Size (mm <sup>2</sup> ) | Max diam of wires in conductor mm | Maximum resistance at 20°C<br>Ω/Km | UL Style | Nominal R/T(mm) | Nominal Diam (mm) | Current Rating (A) | Weight (Kg/km) |
|----------|-------------------------|-----------------------------------|------------------------------------|----------|-----------------|-------------------|--------------------|----------------|
| 22       | 0.5                     | 0.21                              | 39.0                               | 1015     | 0.8             | 2.6               | 11                 | 11             |
| 20       | 0.75                    | 0.21                              | 26.0                               | 1015     | 0.8             | 2.8               | 14                 | 14             |
| 18       | 1                       | 0.21                              | 19.5                               | 1015     | 0.8             | 3                 | 17                 | 17             |
| 16       | 1.5                     | 0.26                              | 13.3                               | 1015     | 0.8             | 3.3               | 21                 | 22             |
| 14       | 2.5                     | 0.26                              | 7.98                               | 1015     | 0.8             | 3.7               | 30                 | 33             |
| 12       | 4                       | 0.31                              | 4.95                               | 1015     | 0.8             | 4.3               | 41                 | 49             |
| 10       | 6                       | 0.31                              | 3.30                               | 1015     | 0.8             | 5.1               | 53                 | 71             |
| 8        | 10                      | 0.41                              | 1.91                               | 1028     | 1.2             | 6.8               | 75                 | 124            |
| 6        | 16                      | 0.41                              | 1.21                               | 1283     | 1.58            | 9.2               | 100                | 199            |
| 4        | 25                      | 0.41                              | 0.78                               | 1283     | 1.58            | 10.6              | 136                | 290            |
| 2        | 35                      | 0.41                              | 0.554                              | 1283     | 1.58            | 11.6              | 167                | 387            |
| 1        | 50                      | 0.41                              | 0.386                              | 1284     | 2.1             | 14.4              | 190                | 570            |
| 2/0      | 70                      | 0.51                              | 0.272                              | 1284     | 2.1             | 16.5              | 240                | 781            |
| 3/0      | 95                      | 0.51                              | 0.206                              | 1284     | 2.1             | 18.7              | 300                | 1025           |
| 4/0      | 120                     | 0.51                              | 0.121                              | 1284     | 2.1             | 20                | 340                | 1280           |