

## 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.: 811-1448



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

A plain copper stranded conductor covered with a PVC sheath. The advantage of using this type of cable is that it allows many different approvals to be met from a single cable type, thereby simplifying purchasing, stockholding, and production. Maximum Operating Temperature 90°C (105°C for 15,000 hours) to BS6231.

## General Specifications

<b>Type</b>	Tri-rated
<b>Tri-rated</b>	Yes
<b>Sheath Colour</b>	Red
<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>	41A
<b>Conductor Material</b>	52/0.295mm Plain Annealed Copper (Class 5 to IEC 60228)
<b>Insulation Material</b>	HRPVC (Type T13 to BS EN 50363)
<b>Conductor Resistance</b>	4.95 Ω/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 (105°C for 15,000 hours)
<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	Size (mm <sup>2</sup> )	Max diam of wires in conductor mm	Maximum resistance at 20°C $\Omega$ /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