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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.

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Tri-rated Cable

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

Type	Tri-rated
Tri-rated	Yes
Sheath Colour	Red
Application	Electrical cabinets, Industrial electrical installations, Small electronic devices, Relay and instrumentation panels, Control metering, Motor starters

Electrical Specifications

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

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Mechanical Specifications

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

Operation Environment Specifications

Maximum Operating Temperature	90°C (105°C for 15,000 hours)
Maximum Conductor Temperature	105°C in air; 60°C in oil
Temperature Range	-15 to +105°C

Approvals

Compliance/Certifications	UL & CSA
Standards Met	UL 1015 & CSA Type TEW & BS 6231 Type CK

Tri-rated Cable

AWM Size	Size (mm^2)	Max diam of wires in conductor mm	Maximum resistance at 20°C 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

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