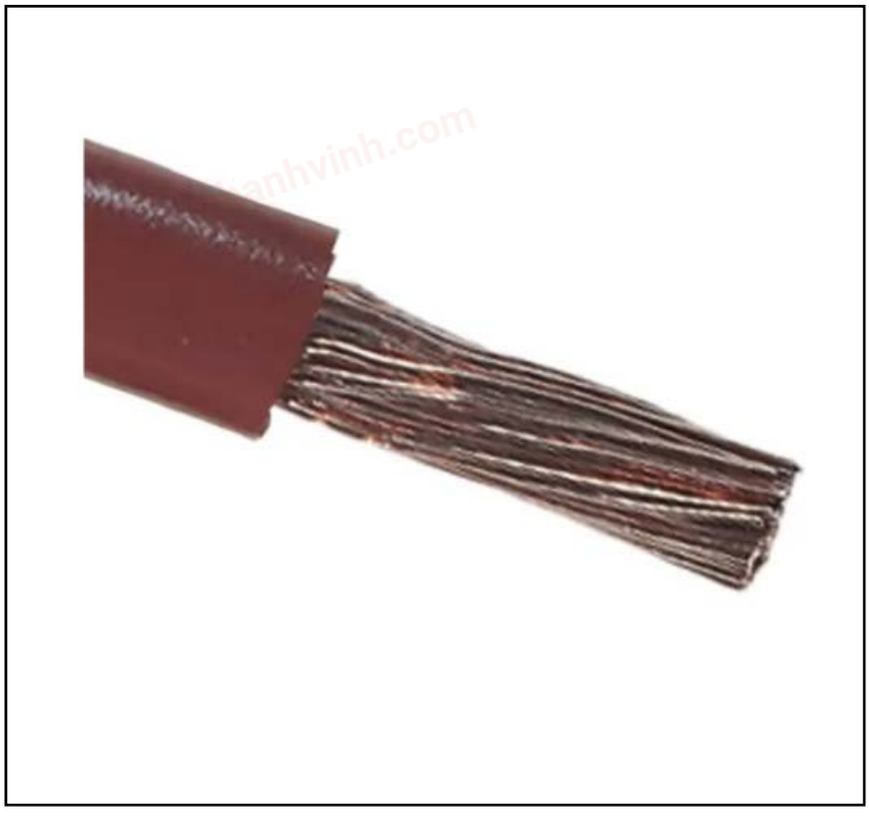
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FEATURES

- Plain Annealed Copper
- A voltage rating of 600 / 1000 V
- Class 5 flexibility
- A HR PVC (Heat Resistant PVC) insulation

RS PRO Brown Single Core x 16.0sqmm (Class 5 PCW), HRPVC Insulated, 600/1000V, Tri-Rated

RS Stock No.: 628-5538



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

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

Type	Tri-rated
Tri-rated	Yes
Sheath Colour	Red
Harmonised Code	H05V2-K and H07V2-K
Application	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

Voltage Rating	600/1000V
Current Rating	100A
Conductor Material	115/0.40mm Plain Annealed Copper (Class 5 to IEC 60228)
Insulation Material	HRPVC (Type TI3 to BS EN 50363)
Conductor Resistance	1.21 Ω/km @ 20°C (Maximum)

Mechanical Specifications

Length	100m
Cross Sectional Area	16mm^2
Outer Diameter	6.8mm
American Wire Gauge	6
Core Strands	126/0.4mm
Size of Strands	0.4mm
Insulation Wall Thickness	1.60mm (Nominal)
Diameter Over Insulation	Lower Limit: 6.70mm ; Upper Limit: 9.00mm

Tri-rated Cable

Operation Environment Specifications

Maximum Operating Temperature	105°C
Maximum Conductor Temperature	105°C in air; 60°C in oil

Approvals

Compliance/Certifications	**UL & CSA**
Standards Met	UL 1283 & CSA Type TEW & BS 6231 Type CK

Area (sq.mm)	Approx AWG	Conductor nom. (mm)	Nom r/t (mm)	Nom Diam (mm)	Max Temp °C	AWM Style No.	Max* Amps
0.5	22	16/0.2	0.8	2.6	105	1015	11
0.75	20	24/0.2	0.8	2.8	105	1015	14
1	18	32/0.2	0.8	3.0	105	1015	17
1.5	16	30/0.25	0.8	3.3	105	1015	21
2.5	14	50/0.25	0.8	3.7	105	1015	30
4	12	56/0.3	0.8	4.3	105	1015	41
6	10	84/0.3	0.8	5.1	105	1015	53
10	8	80/0.4	1.2	6.8	105	1028	75
16	6	126/0.4	1.6	9.2	105	1283	100
25	4	196/0.4	1.6	10.6	105	1283	136
35	2	276/0.4	1.6	11.6	105	1283	167
50	1	396/0.4	2.1	14.4	105	1284	204
70	2/0	360/0.5	2.1	16.5	105	1284	259
95	3/0	475/0.5	2.1	18.7	105	1284	321
120	4/0	608/0.5	2.1	20.0	105	1284	362

AWM Size	Area mm^2	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