Tri-rated Cable

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 6.0sqmm (Class 5 PCW), HRPVC Insulated, 600/1000V, Tri-Rated

RS Stock No.: 811-1467



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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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	53A
Conductor Material	78/0.295mm Plain Annealed Copper (Class 5 to IEC 60228)
Insulation Material	HRPVC (Type TI3 to BS EN 50363)
Conductor Resistance	3.30 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	10
Core Strands	84/0.3mm
Size of Strands	0.3mm
Insulation Wall Thickness	0.8mm
Minimum Bend Radius	6 x Overall Diameter
Weight	71kg/km
Diameter Over Insulation	Lower Limit: 4.40mm; Upper Limit: 5.30mm

Operation Environment Specifications

Maximum Operating Temperature	90°C
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

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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