chanhvinh.com

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, 100m

RS Stock No.: 811-4542



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.

Tri-rated Cable

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

Type	BK
Tri-rated	Yes
Sheath Colour	Black
Fire Behaviour	Flame Retardant
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	48A
Conductor Material	78/0.295mm Plain Annealed Copper (Class 5 to IEC 60228)
Insulation Material	PVC (Type TI1 to BS EN 50363)
Conductor Resistance	3.30 Ω/km @ 20°C (Maximum)

Tri-rated Cable

Mechanical Specifications

Length	100m
Cross Sectional Area	6mm^2
Outer Diameter	6.3mm
American Wire Gauge	9
Core Strands	84/0.3 mm
Size of Strands	0.3mm
Insulation Wall Thickness	0.8mm
Minimum Bend Radius	6 x Overall Diameter
Weight	70.80kg/km
Diameter Over Insulation	Lower Limit: 4.40mm ; Upper Limit: 5.30mm

Operation Environment Specifications

Temperature Range	-15 to +70°C

Approvals

Standards Met	BS 6231:2006

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