

FEATURES

- Maximum operating temperature of 70°C
- A voltage rating of 600 / 1000 V
- Available in either 25m or 100m length
- Single core cable design

RS PRO Blue FLEXIBLE BK Tri-rated Cable, 1mm² CSA, 1kV, 100m

RS Stock No.: 811-4481



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

From RS PRO, comes a range of high quality and great value Tri-rated cables. Manufactured with a premium 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	FLEXIBLE BK
Tri-rated	Yes
Sheath Colour	Blue
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	1kV
Conductor Material	Copper
Insulation Material	PVC
Conductor Resistance	19.5Ohm/km at 20°C

Mechanical Specifications

Length	100m
Cross Sectional Area	1mm ²
Outer Diameter	3.4mm
American Wire Gauge	17
Core Strands	32/0.2mm
Size of Strands	0.2mm
Insulation Wall Thickness	0.8mm
Minimum Bend Radius	6 x Overall Diameter
Weight	17.3kg/km

Operation Environment Specifications

Maximum Operating Temperature	70°C
Maximum Conductor Temperature	105°C in air; 60°C in oil

Approvals

Compliance/Certifications	CSA / UL / BS6231
Standards Met	BS6231

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

