

## TECHNICAL DATA TRI-RATED PVC CABLE



### DESCRIPTION & APPLICATION



PVC insulated flame retardant cable for use in switch control, relay and instrument panels of switchgear and internal connectors in transformers, rectifiers, motor starters and controllers.

The cable is referred to as 'Tri-Rated', as it is approved to BS, UL and CSA standards.

### TECHNICAL DATA

Conductor	Class 5 plain copper to BS EN 60228:2005
Insulation	PVC (Polyvinyl chloride)
Temperature rating	BS 6231: 90°C (105°C for 15,000 hours) UL & CSA: 105°C
Voltage	600 - 1000V
Standards	BS 6231 Type CK UL Style 1015, subject 758 CSA C22.2 No.210
Minimum bending radius	6 x overall diameter
Colours	Black, Red, Blue, Light Blue, Dark Blue, Yellow, Green/Yellow, Grey, Brown, Orange, White, Violet, Green, Pink

Cross Sectional Area mm <sup>2</sup>	AWG	Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight Kg/Km	Maximum Diameter of Wires in Conductor mm	Maximum Resistance of Conductor at 20°C ohms/Km	Current Rating Peak Amps	Voltage Drop mV/A/m	PAR Part Number
0.50	22	0.80	2.50	12	0.21	39.0000	11	46.00	0417050
0.75	20	0.80	2.70	18	0.21	26.0000	14	31.00	0417075
1.00	18	0.80	2.95	18	0.21	19.5000	17	22.00	0417100
1.50	16	0.80	3.20	23	0.26	13.3000	21	15.00	0417150
2.50	14	0.80	3.65	34	0.26	7.9800	30	9.10	0417250
4.00	12	0.80	4.20	48	0.31	4.9500	41	5.70	0417400
6.00	10	0.80	4.70	67	0.31	3.3000	53	3.80	0417600
10.00	8	1.14	6.50	119	0.41	1.9100	75	2.20	04171000
16.00	6	1.52	8.00	187	0.41	1.2100	100	1.40	04171600
25.00	4	1.52	9.40	291	0.41	0.7800	136	0.89	04172500
35.00	2	1.52	10.60	406	0.41	0.5540	167	0.64	04173500
50.00	1	2.02	12.90	580	0.41	0.3860	204	0.45	04175000
70.00	2/0	2.02	14.60	780	0.51	0.2720	259	0.32	04177000
95.00	3/0	2.02	16.10	1055	0.51	0.2060	321	0.24	04179500
120.00	4/0	2.02	17.90	1175	0.51	0.1610	374	0.19	041712000
150.00	250 MCM	2.41	20.20	1425	0.51	0.1290	418	0.16	041715000
185.00	350 MCM	2.41	20.85	1735	0.51	0.1060	480	0.13	041718500
240.00	450 MCM	2.41	24.40	2310	0.51	0.0801	593	0.10	041724000

### DE-RATING FACTORS

Ambient temperature	45°C	50°C	55°C	60°C	65°C	70°C	75°C
De-rating factor	1.00	0.97	0.90	0.82	0.73	0.63	0.52

### CABLES BUNCHED/GROUPED

Number of cables	2	3	4	5	6	7	8
De-rating factor	0.80	0.70	0.65	0.60	0.56	0.53	0.50

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