



## TRI-RATED BS6231 FLEXIBLE PVC CABLE



### APPLICATION

Tri Rated cable is sometimes referred to as panel wiring cable due to its application and purpose. Heat resistant, flame retardant cable designed for use in instrumentation panels, motor starters or power switch gear. The cable features flexible plain annealed copper conductors and a circular high temperature PVC outer sheath. UL & CSA approved also to BS6231.

Bi-Rated cables to UL and CSA Approval

### CABLE STANDARDS

BS6231  
UL Style number 1015  
UL Subject number 758  
CSA 22.2  
BS EN 50525-2-31  
Flame propagation to BS EN 50265,  
IEC 60332-1-2

### CONSTRUCTION

**Conductor:**

Flexible plain annealed copper conductors

**Sheath:**

Circular high temperature PVC outer sheath in a large range of colours

### CHARACTERISTICS

**Voltage Rating:** 600/1000 volts

**Temperature Limits:**

UL,CSA: -15°C to +105°C  
BS6231: -15°C to +90°C

**Minimum Bending Radius:**

As per cable manufacturer datasheet

**Core Identification:**

<b>0.5-2.5mm<sup>2</sup>:</b>	Green / Yellow	Brown	Black	Grey
	Blue / Orange	Red	Yellow	
	Violet / Pink			
<b>4.0-16mm<sup>2</sup>:</b>	Green / Yellow	Brown	Black	Grey
	Blue / Yellow	<u>Red</u>		
<b>25.0-120mm<sup>2</sup>:</b>	Green / Yellow	Brown	Black	Grey
	Blue / Yellow			
<b>150mm<sup>2</sup></b>	Green / Yellow	Black		
<b>185-400mm<sup>2</sup>:</b>	Black			

## TRI-RATED BS6231 FLEXIBLE PVC CABLE - DIMENSIONS

# of Cores	CONDUCTOR SIZE (mm <sup>2</sup> )	STRANDIN G (mm)	WEIGHT (Kg/Km)	APPROX OVERALL DIAMETER (mm)	TREFOIL
1	0.5	16/0.20	12	2.70	-
1	0.75	24/0.20	15	2.85	-
1	1	32/0.20	18	3.00	-
1	1.5	30/0.25	23	3.30	20/16
1	2.5	50/0.25	34	3.75	20/16
1	4	56/0.30	50	4.35	20/16
1	6	84/0.30	71	4.85	20/16
1	10	80/0.40	123	6.30	20/16
1	16	126/0.40	207	8.10	20S
1	25	196/0.40	303	9.40	20S
1	35	276/0.40	412	10.90	20
1	50	396/0.40	607	13.10	25
1	70	360/0.50	837	15.10	25
1	95	475/0.50	1079	16.10	25
1	120	608/0.50	1280	17.90	32
1	150	756/0.50	1619	20.20	32
1	185	925/0.50	1948	22.85	32
1	240	1221/0.50	2518	24.40	40

The above is in accordance with 18th Edition of IET Wiring Regulations

## TRI-RATED BS6231 PVC - ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA (MM <sup>2</sup> )	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR	CURRENT RATING (PEAK) AMPS	VOLTAGE DROP mV/A/m
0.5	0.21	11	46
0.75	0.21	14	31
1	0.21	17	22
1.5	0.26	21	15
2.5	0.26	30	9.1
4	0.31	41	5.7
6	0.31	53	3.8
10	0.41	75	2.2
16	0.41	100	1.4
25	0.41	136	0.89
35	0.41	167	0.64
50	0.41	204	0.45
70	0.51	259	0.32
95	0.51	321	0.24
120	0.51	374	0.19
150	0.51	429	0.16
185	0.51	496	0.13
240	0.51	595	0.1

The above is in accordance with 18th Edition of IET Wiring Regulations