

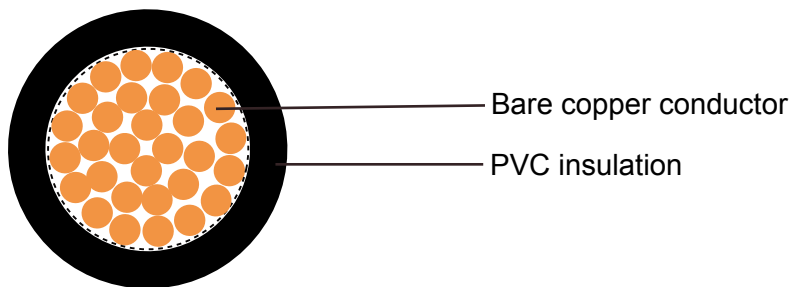


### Tri-rated Cable to BS6231

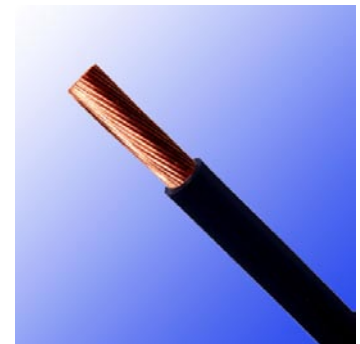
#### Application and Description

Tri-rated Cable panel wiring is a high temperature, flame retardant cable designed for use in the switch control, relay and instrumentation panels of power switchgear and for purposes such as internal connectors in rectifier equipment, motor starters and controllers. Tri-rated Cable is sometimes referred to as BS6231 Cable or Panel Wire.

#### Cable Construction



tri-rated cables



tri-rated cables

- Fine bare copper strands
- Stranding to BS 6360 Class 5 or IEC 60228 Class 5
- Special heat resistant PVC core insulation

#### Core Identification

Black, Blue, Brown, Red, White, Yellow, Grey, Violet, Pink, Green/Yellow, Other colours are available on request

#### Technical Characteristics

- Working voltage: 600/1000v
- Minimum bending radius: 6xOverall diameter
- Operating temperature: 0° C to +90° C (105° C for 15,000 hours)
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩxkm



### Cable Parameter

AWG (No of Strands/ Strand Diameter)	No. of Cores x Nominal Cross Sectional Area #xmm <sup>2</sup>	Nominal Thickness of Insulation mm	Nominal Overall Diameter mm	Nominal Weight kg/km
20(16/32)	1x0.5	0.80	2.50	12
18(24/32)	1x0.75	0.80	2.70	15
17(32/32)	1x1	0.80	2.95	18
16(30/30)	1x1.5	0.80	3.20	23
14(50/30)	1x2.5	0.80	3.65	34
12(56/28)	1x4	0.80	4.20	48
10(84/28)	1x6	0.80	4.70	67
8(80/26)	1x10	1.14	6.50	119
6(128/26)	1x16	1.52	8.00	187
4(200/26)	1x25	1.52	9.40	291
2(280/26)	1x35	1.52	10.60	406
1(400/26)	1x50	2.02	12.90	580
2/0(356/24)	1x70	2.02	14.60	780
3/0(485/24)	1x95	2.02	16.10	1055
4/0(614/24)	1x120	2.02	17.90	1175
300 MCM (765/24)	1x150	2.41	20.20	1425
350 MCM (944/24)	1x185	2.41	22.85	1735
500MCM(1225/24)	1x240	2.41	24.40	2310

\*Cables above 120mm<sup>2</sup> in size are referred to as Bi-rated since the CSA standard applies only to sizes up to and including 120mm<sup>2</sup>