



# TRI-RATED 600V

UL 758, CSA C22.2 127-18, BS 6321

- For switchgear and panel wiring cables.
- Single core non-sheathed cables with thermoplastic pvc insulation



**Applications:** TRI-RATED cables are designed for use in switchgear, control panels and UPS systems. TRI-RATED cables are made from PVC material which is heat resistant, oil resistant and flame retardant. TRI-RATED meeting the requirements of three National Standards and is therefore intended for different markets.

Standard length cable packing: 50 m of 100 m in rings or on spools, or 500 m on drums. Other forms of packing and delivery are available on request

## Construction

<b>Conductors</b>	Class 5 flexible copper conductor
<b>Insulation</b>	Heat resistant, flame retardant PVC
<b>Core identification</b>	Green/yellow, blue, black, brown, grey, pink, red, violet, white or other colours

## Characteristics

<b>Voltage rating</b>	UL, CSA	600V		
	BS 6231	0,6/1kV		
<b>Maximum conductor operating temperature</b>	UL, CSA	105°C		
	BS 6231	90°C		
<b>Lowest ambient temperature for fixed installation</b>	-15 °C			
<b>Maximum short-circuit conductor temperature:</b>	+160°C			
<b>Minimum bending radius</b>	For cable diameter D (mm)			
	D ≤ 8	8 < D ≤ 12	12 < D ≤ 20	D > 20
Normal use	4 D	5 D	6 D	6 D
Careful bending at termination	2 D	3 D	4 D	4 D
<b>Max. permissible tensile stress with cable grip for Cu-conductor</b>	50 N/mm <sup>2</sup>			

## Parameters

Number and cross-sectional area of conductor	Number and cross-sectional area of conductor	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C Copper
<b>n × mm<sup>2</sup></b>	<b>AWG</b>	<b>mm</b>	<b>kg/km</b>	<b>Ω/km</b>
0.5	22	2.5	11	39
0.75	20	2.7	13	26
1	18	2.8	15	19.5
1.5	16	3.1	20	13.3
2.5	14	3.6	30	7.98
4	12	4.1	43	4.95
6	10	4.6	62	3.3
10	8	6.4	110	1.91
16	6	8.3	178	1.21