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Flexible Cables and Cords

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# Tri-Rated

105°C 600/1000 V

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## Application

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For the internal wiring appliances and also the wiring of switch, control, metering and instrument panels of power switchgear.

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## Specifications

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- In accordance with BS6231 Type CK
- Conforms to UL subject 758 Appliance Wiring Material (AWM) for styles 1015, 1028, 1283 and 1284 as applicable. RoHS Compliant
- Canadian Standards Association (CSA) approved.
- < HAR > Approved to H05V-K/H07V-K in accordance with H05V2-K/H07V2-K, depending on manufacturer
- **Conductors:** Plain Flexible Class 5 conductors to BS EN 60228
- **Insulation:** PVC insulation
- Normal colours available see page 2.3
- **Flammability:** IEC60332-1-2
- **Temperature Rating:** BS6231 specifies a maximum continuous conductor operating temperature of 90°C, and for limited use up to 105°C. UL and CSA rated 105°C
- **Voltage Rating:** 600/1000 V (BS), 600 V (UL & CSA) 450/750 V (HAR)
- **Minimum Bending Radius:** 5 x Cable O.D.

## Tri-Rated

105°C 600/1000 V

Anixter Number	Nominal Conductor Area	Nominal O/D	Approximate Weight	UL Style Number
	mm <sup>2</sup>	mm	kg/km	
TRI-0005-##	0.5	2.5	10	1015
TRI-0007-##	0.75	2.7	13	1015
TRI-0010-##	1.0	2.8	1.5	1015
TRI-0015-##	1.5	3.0	20	1015
TRI-0025-##	2.5	3.5	30	1015
TRI-0040-##	4.0	4.0	45	1015
TRI-0060-##	6.0	4.6	65	1015
TRI-0100-##	10	6.4	115	1028
TRI-0160-##	16	8.1	180	1283
TRI-0250-##	25	9.5	265	1283
TRI-0350-##	35	10.6	355	1283
TRI-0500-##	50	13.1	505	1284
TRI-0700-##	70	14.8	685	1284
TRI-0950-##	95	16.6	890	1284
TRI-1200-##	120	17.8	1115	1284

## = colour, -01 = white, -02 = black, -03 = red, -04 = green, -05 = yellow, -06 = blue, -07 = brown, -08 = orange, -09 = grey, -10 = violet, -12 = pink, -60 = green/yellow. etc.  
Other colours available upon request.

## Technical Specifications for Tri-Rated

Nominal Conductor Area	Max DC Conductor Resistance @ 20°C	Current Rating	Nominal Voltage Drop*
mm <sup>2</sup>	ohms/Km	A	mV/A/m
0.5	39.0	11	46.0
0.75	26.0	14	31.0
1.0	19.5	17	22.0
1.5	13.3	21	15.0
2.5	7.98	30	9.1
4.0	4.95	41	5.7
6.0	3.30	53	3.8
10	1.91	75	2.2
16	1.21	100	1.4
25	0.780	136	0.89
35	0.554	167	0.64
50	0.386	204	0.45
70	0.272	259	0.32
95	0.206	321	0.24
120	0.161	374	0.19
150	0.129	429	0.15
185	0.106	496	0.13
240	0.0801	595	0.092

Current ratings are based on a conductor operating temperature of 85°C and an ambient air temperature of 45°C and assumes single cable isolated in free air.

The ratings do not apply if the cable is protected by a semi-enclosed fuse to BS3036.

For further guidance refer to the BS7671 Requirements for Electrical Installations (IEE Wiring Regulations - latest edition).

For ambient air temperature other than 45°C the following rating factors should be applied:

Ambient air temp °C	45	50	55	60	65	70	75
Rating factor	1.0	0.97	0.90	0.82	0.73	0.63	0.52

Where cables are to be grouped, the following factors should be applied:

No of cables in group	2	3	4	5	6	7	8
Rating factor	0.80	0.70	0.65	0.60	0.56	0.53	0.50

\* The voltage drop figures quoted are for one cable only. For other circuit arrangements they should be adjusted as follows:

Single phase 50Hz a.c. or 2-wire d.c. x 2 Three phase a.c. x 1.732.