

H05V2-K / H07V2-K / BS 6231 / UL758 / CSA 22.2



## AMC TRI-RATED

### Application

Heat-resistant, flame-retardant cable designed for use in switch control, relay, and instrumentation panels within power switchgear, as well as for internal connections in rectifier equipment, motor starters, and controllers. Certified to BS6231, UL758, and CSA22.2.

### Environmental statement

AMC take every action possible to ensure we are a sustainable, and environmentally aware manufacturer. End of life care; ensure that all cable product is disposed of inline with relevant WEEE Regulations.

### Specification

Voltage	0.6/1kV
Cores	Class 5 Conductor
Sheath	PVC
Operating Temperature	-15° to 90°C
Min Bend Radius	<6x OD
0.5mm <sup>2</sup> - 1mm <sup>2</sup>	BS EN 50525-2-31 - H05V2-K: 300/500V
1.5mm <sup>2</sup> and above	BS EN 50525-2-31 - H07V2-K: 450/750V
12 Colours	Black, Blue, Green, Brown, Grey, Light Green, Orange, Pink, Purple, Red, White, Yellow

### Standards (Compliance / Certification)

BS EN 60228:2005

BS EN 50525-2-31

IEC60332.1.2

BS6231, UL758, CSA22.2

Part No	Conductor Specification (mm)	Maximum Overall Diameter (mm)	Maximum Resistance Per Metre at 20°C (Ohms)	Colour	Reel & Packaging
3TR.5	0.5	2.5	0.0371	Tri-Rated cables are available in the following colours: (R) RED, (B) BLACK, (G) GREEN, (LG) LIGHT GREEN, (U) BLUE, (Y) YELLOW, (N) BROWN, (P) PURPLE, (K) PINK, (S) SLATE GREY, (W) WHITE, (O) ORANGE  Any combination of two of the above colours can be made available upon request	All cable are available as 10/30/50/100/250/500m reels.  Barrel pack up to 10,000m dependant upon cable.  Box pack up to 6,000m dependant upon cable.  <i>*If you have a special packaging request please contact our Sales Team.</i>
3TR.75	0.75	2.7	0.0247		
3TR1	1	2.8	0.0185		
3TR1.5	1.5	3.05	0.0127		
3TR2	2	3.4	0.00942		
3TR2.5	2.5	3.5	0.0076		
3TR3	3	4	0.00615		
3TR4	4	4.2	0.00471		
3TR4.5	4.5	4.65	0.00406		
3TR6	6	4.8	0.00314		
3TR7	7	5.2	0.00279		
3TR8.5	8.5	5.6	0.0022		
3TR10	10	6.3	0.00182		
3TR16	16	7.65	0.00116		
3TR25	25	9.4	0.000743		
3TR35	35	10.4	0.00056		

The conductor specifications shown are representative configurations; actual cable strand may differ slightly, but will meet the resistance values shown. Nominal current amperage ratings are provided as a guide only, and can vary depending on the application, condition and environmental factors. If in doubt, please consult a qualified electrician.

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### Product options

As the manufacturer, AMC are able to offer several product options, some of which are available upon request only, please contact our Sales Team should you have a special requirement, our options are as follows:-

#### Packaging:-

- Standard branded card reels
- Larger wooden, or plastic reels
- Card box-pack for improved storage at larger quantities
- Card barrel-pack; secure, and waterproof
- Returnable packaging can be agreed upon request

#### Colours:-

- AMC have 12 standard colours (see below), however any colour can be produced upon request
- Any combination of two colours can be manufactured to produced a bi-colour striped cable

#### Multicore:-

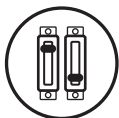
- AMC can produce the cable in any core quantity up to 13 core as standard
- AMC can produce higher quantity core cable types on request
- Various cable core types can be combined into a 'hybrid' multicore should you have a special design requirement

Characteristic	Declared Performance	Standards
Temperature range	UL / CSA: -15°C to +90°C BS 6231: -15°C to +90°C Suitable at -40°C for fixed installations	BS 6231: 2006, UL758, CSA 22.2
Operating voltage	BS6231: 0.6/1kV   AWM 11402: 0.6kV	
Application of insulation	PASS	
Durability	PASS	
Legibility	PASS	
Marking legend	PASS	
Voltage test	PASS	
Overall diameter	PASS	
Flame propagation	PASS	
Conductor construction	PASS	
Bending at low temperature	PASS	
Long term resistance of insulation to D.C.	PASS	
Pressure test at high temperature	PASS	
Resistance to cracking insulation (heat shock)	PASS	
Thickness of insulation	PASS	
Maximum diameter of wires	PASS	
Conductor resistance	PASS	
Insulation resistance insulation	PASS	
Tensile test on insulation	PASS	
Loss of mass insulation	PASS	

### Typical Applications



CONTROL PANELS



SWITCHGEAR & SWITCHBOARDS



CONTROL AND PLANT ROOMS



STARTER SYSTEMS



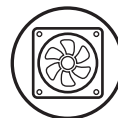
DATA CENTRES



APPLIANCES



DISTRIBUTION BOARDS & CABINETS



EXTRACTOR FAN