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ENGLISH

Datasheet

RS PRO Single Core x 10.0sqmm (Class 5 PCW), HRPVC Insulated, 600/1000V, Tri-Rated



Product details:

Tri-Rated Switchgear Cable
A 72/0.40mm Plain Annealed Copper (Class 5 to IEC 60228) conductor covered with a HRPVC (Type TI3 to BS EN 50363) sheath for application such as internal connectors in equipment, motor starters and controllers. Also designed for use in switch control, relay and instrumentation panels for power and switchgear.

Features and Benefits
Temperature ranges from -15 to +105°C to BS6231. Reel length 100m ·The advantage of using this type of cable is that it allows many different approvals to be met from a single cable type, thereby simplifying purchasing, stockholding, and production

Note
The number of strands used in the construction of the conductors may vary. The conductor resistance is 1.91 Ω/km @ 20°C (Maximum). The figures quoted are nominal. Cables marginally exceed maximum diameter in BS6231 to meet UL/CSA.

Standards
These cables are manufactured to the following national standards, BS6231 (UK), CSA TEW (Canada) and UL style 1015, 1028 or 1283 according to cable size (USA) and are marked accordingly.

Tri-Rated

Specifications:

Tri-rated equipment wires are manufactured to meet UL 1028 & CSA Type TEW & BS 6231 Type CK and certified with UL & CSA

These cables are for use at alternating voltages between 600/1000V. The conductors are plain annealed copper. The insulation radial thickness is 1.20mm (Nominal).

Manufactured using High temperature HRPVC (Type TI3 to BS EN 50363).

RS Stock no.	Sheath Colour	Area (sq.mm)	Approx AWG	Conductor nom. (mm)	Nom r/t (mm)	Nom Diam (mm)	Max Temp °C	AWM Style No.	Max* Amps
516-8094	Red	25	4	196/0.4	1.6	10.6	105	1283	136
516-8117	Green/ Yellow	25	4	196/0.4	1.6	10.6	105	1283	136
628-5291	Mid-Blue	10	8	72/0.4	1.2	6.8	105	1028	75
628-5314	Red	10	8	72/0.4	1.2	6.8	105	1028	75
628-5320	Black	10	8	72/0.4	1.2	6.8	105	1028	75
628-5336	Yellow	10	8	72/0.4	1.2	6.8	105	1028	75
628-5342	Black	16	6	126/0.4	1.6	9.2	105	1283	100
628-5358	Green/ Yellow	10	8	72/0.4	1.2	6.8	105	1028	75
628-5364	Mid-Blue	16	6	126/0.4	1.6	9.2	105	1283	100
628-5370	Red	16	6	126/0.4	1.6	9.2	105	1283	100
628-5386	Yellow	16	6	126/0.4	1.6	9.2	105	1283	100
628-5409	Green/ Yellow	16	6	126/0.4	1.6	9.2	105	1283	100
628-5421	Red	25	4	196/0.4	1.6	10.6	105	1283	136
628-5465	Green/ Yellow	25	4	196/0.4	1.6	10.6	105	1283	136
628-5493	Brown	10	8	72/0.4	1.2	6.8	105	1028	75

RS Stock no.	Sheath Colour	Area (sq.mm)	Approx AWG	Conductor nom. (mm)	Nom r/t (mm)	Nom Diam (mm)	Max Temp °C	AWM Style No.	Max* Amps
628-5516	Grey	10	8	72/0.4	1.2	6.8	105	1028	75
906-2694	Dark Blue	0.5	22	16/0.2	0.8	2.6	105	1015	11
906-2701	Dark Blue	1.5	16	30/0.25	0.8	3.3	105	1015	21
906-2704	Dark Blue	0.75	20	24/0.2	0.8	2.8	105	1015	14
906-2707	Dark Blue	1	18	32/0.2	0.8	3.0	105	1015	17
906-2710	Dark Blue	2.5	14	50/0.25	0.8	3.7	105	1015	30
906-2713	Dark Blue	4	12	56/0.3	0.8	4.3	105	1015	41
9062717	Dark Blue	6	10	84/0.3	0.8	5.1	105	1015	53
906-2726	Dark Blue	10	8	72/0.4	1.2	6.8	105	1028	75
906-2729	Dark Blue	16	6	126/0.4	1.6	9.2	105	1283	100

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TRI-RATED SWITCHGEAR/CONTROL WIRES

PVC Insulated switchgear/control wires which are manufactured to BS6231 Type CK and certified to the following standards:

Underwriters Laboratories (UL)

Styles 1015, 1028, 1283 or 1284 depending on size.

Canadian Standards Association (CSA)

Applications include the wiring of switch, control, metering, relay and instrument panels of power switch gear as well as internal connections in rectifier equipment and in motor starters and controllers.

The UL and CSA certification of these wires enables their equipment destined for the North American market as well as the European market. This gives the benefit of simpler design and manufacturing and less stock holding, compared to the alternative of using wires manufactured to separate standards.

All wires are embossed or printed along their length with the following information:

Manufacturer identification

UL Logo
AWM Style No
105°C 600V VW-1
AWG size
CSA TEW 105°C FTI
BS6231
mm^2 size

All wires are available in the following colours:
Black, Blue, Brown, Green, Grey, Orange, Pink, Red, Violet, White, Yellow and Green/Yellow
The standard reel length is 100m though other lengths are available on request.
Sizes up to and including $4mm^2$ can be supplied in non-returnable cardboard barrels.

Technical information

Wires:	Plain annealed copper
Insulation:	Heat resisting PVC
Voltage Rating:	600V between conductor and earth, 1000V between conductors
Maximum conductor Temperature:	105°C in air, 60°C in oil