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TRI-RATED SWITCHGEAR/CONTROL WIRES

Permanoid offers a range of 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)
Type TEW 105°C

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 use in equipment destined for the North American market as well as the European market. This gives the benefit of simpler design and manufacturing and less stockholding, 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 FT1
BS6231
mm² 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 4mm² 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.

AWM Size	Area mm ²	Wire Type	UL Style	Nominal R/T (mm)	Nominal Diam (mm)	Current Rating (A)	Weight Kg/Km
22	0.5	16/0.2	1015	0.80	2.6	11	1
20	0.75	24/0.2	1015	0.80	2.8	14	14
18	1.0	32/0.2	1015	0.80	3.0	17	17
16	1.5	30/0.25	1015	0.80	3.3	21	22
14	2.5	50/0.25	1015	0.80	3.7	30	33
12	4.0	56/0.3	1015	0.80	4.3	41	49
10	6.0	84/0.3	1015	0.80	5.1	53	71
8	10	80/0.4	1028	1.20	6.8	75	124
6	16	126/0.4	1283	1.58	9.2	100	199
4	25	196/0.4	1283	1.58	10.6	136	290
2	35	276/0.4	1283	1.58	11.6	167	387
1	50	396/0.4	1284	2.10	14.4	190	570
2/0	70	360/0.5	1284	2.10	16.5	240	781
3/0	95	475/0.5	1284	2.10	18.7	300	1025
4/0	120	608/0.5	1284	2.10	20.0	340	1280