



1. Flexible Plain annealed copper wire conductor to BS 6360 (class 5)
2. Plasticised PVC insulation specially formulated to combine excellent

electrical performance with robust mechanical properties, yet still complying with UL, CSA

Temperature Range

Recognised by UL and CSA as heat-resisting with a maximum conductor operating temperature of 105°C *

Maximum Working Voltage

UL, CSA 600V r.m.s. BS 6231 (U₀/U) 600/1000V r.m.s.

Oil Resistance

Is recognised by UL and CSA as resistant to oil at temperatures up to 60°C

Minimum Ambient Temperature

-20°C after installation and only when cable is in a fixed position

Spread of Flame

VW-1, FT-1, EN 50265

APPLICABLE STANDARDS

1. Underwriters Laboratory Listed.

Conforms to Subject 758 Appliance Wiring Material for Styles 1015, 1028, 1283 and 1284 as applicable. UL File No E28423

2. Canadian Standards Association approved. Complies with standard C22.2, No. 127, Type TEW. CSA File No. LL55192
3. British Standards. Manufactured to BS 6231 type CK

* BS 6231 specifies a maximum conductor operating temperature of 90°C for continuous use. Under certain conditions these cables can be operated at up to 105°C. See 'Annex A' of BS 6231 for full details.

Specification Information (Physical Data)

Nominal Cross-Sectional Area mm ²	Class of Conductor	Approx AWG	Nominal Conductor Diameter mm	Nominal Diameter of Cable mm	Approx. Net Weight kg / km	UL Style No
0.50	5	22	0.93	2.7	12	1015
0.75	5	20	1.14	2.9	15	1015
1.00	5	18	1.32	3.1	18	1015
1.50	5	16	1.60	3.4	23	1015
2.50	5	14	2.00	3.8	34	1015
4.00	5	12	2.60	4.4	50	1015
6.00	5	10	3.30	5.1	71	1015
10.00	5	8	4.20	6.8	123	1028
16.00	5	6	5.70	9.2*	209	1283
25.00	5	4	7.10	10.6	296	1286
35.00	5	2	8.50	12.0	400	1283
50.00	5	1	10.30	14.7*	582	1284
70.00	5	2/0	12.40	16.8*	796	1284
95.00	5	3/0	14.50	18.9	1025	1284
120.00	5	4/0	16.00	20.4	1282	1284

Specification Information (Electrical Data)

Conductor Cross-Sectional Area mm ²	Maximum Conductor Resistance Ω/	Maximum Current Rating A
0.50	39.000	11.5
0.75	26.000	16.0
1.00	19.500	19.0
1.50	13.300	24.0
2.50	7.980	32.0
4.00	4.950	43.0
6.00	3.300	56.0
10.00	1.910	79.0
16.00	1.210	105.0
25.00	0.780	141.0
35.00	0.554	178.0
50.00	0.386	217.0
70.00	0.272	276.0
95.00	0.206	337.0
120.00	0.161	400.0

The current ratings tabulated above are based on single cables in free air, a maximum conductor temperature of 90°C and an ambient temperature of 30°C. The volts drop tabulated above are for single cables only. For circuits of single phase 50Hz a.c. or two wire d.c. the figures shown should be multiplied by 2 and for three phase 50Hz a.c. multiplied by 1.732

Note: The temperature rise in a conductor due to current flow should be limited to 40°C

Rating Factors

Ambient Temp (°C)	30	35	40	45	50	55	60	65	70
Factor (close protection)	1.00	0.97	0.94	0.91	0.87	0.84	0.80	0.76	0.71
Factor (fuses to BS 3036)	1.00	0.97	0.94	0.91	0.87	0.84	0.80	0.76	0.72

Rating Factors for Grouped Cables

Where a number of cable are grouped together and touching, the current rating must be de-rated according to the number of loaded cables as follows:

Number of Loaded Cables	2	3	4	5	6	8	10
Factor	0.80	0.70	0.65	0.60	0.56	0.50	0.46