

(1) PVC Insulated, Copper Conductor, Non-Jacket, Single Core (IEC60227).

(A) Application

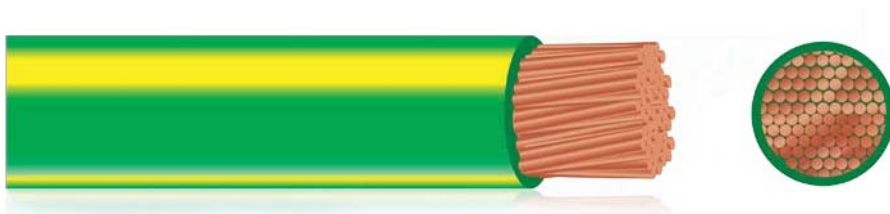
These cores are used for the purpose of lighting, internal, and industrial wiring. These cables are intended for drawing into trunk and conduit. They may also be used inside fixed, protected installations such as light fittings, appliances, switch gear, and control gear.

(B) Technical Data

Relevant Standard:	IEC 60227.
Conductor:	Plain annealed copper, class 1, 2, and 5 according to IEC 60228
Insulation:	PVC rated @ 70 °C or 90 °C.
Maximum conductor temperature:	70 °C during operation.
Color code:	Any colors are available to order.
Packing condition:	100 Yard on either: <ul style="list-style-type: none">▪ Shrink wrapped coil.▪ Plastic spool.

(C) Electrical Data

Conductor resistance (max.)	According to IEC 60228 / BS 6360.
Rated voltage:	U ₀ /U 450/750 V.
Test voltage Urms:	1500 V for radial insulation thickness ≤ 0.6 mm. 2000 V for radial insulation thickness > 0.6 mm.
Current rating:	As listed in the following tables.



(D) Product Data (Standard Products)

	Conductor		Radial thickness of insulation (Nom.) (mm)	Overall diameter (Approx.) (mm)	Cable weight (Approx.) (kg/km)	Current rating in free air @ 30 °C (A)
	Cross Srea	Max. DC Resistance @ 20 °C (Ω / km)				
Solid	1 x 1.0	18.10	0.6	2.33	13.6	22
	1 x 1.5	12.10	0.7	2.78	19.9	28
	1 x 2.5	7.41	0.8	3.38	31.5	38
	1 x 4.0	4.61	0.8	3.86	46.6	50
Stranded	1 x 1.0	18.10	0.6	2.48	14.4	22
	1 x 1.5	12.10	0.7	2.96	21.0	28
	1 x 2.5	7.41	0.8	3.58	32.3	38
	1 x 4.0	4.61	0.8	4.12	48	50
	1 x 6.0	3.08	0.8	4.69	69	66
	1 x 10	1.83	1.0	6.0	114	89
	1 x 16	1.15	1.0	7.0	172	115
	1 x 25	0.727	1.2	8.8	272	152
	1 x 35	0.524	1.2	9.8	362	189
Flexible	1 x 1.0	19.50	0.6	2.40	13.1	22
	1 x 1.5	13.3	0.7	3.00	20.6	28
	1 x 2.5	7.98	0.8	3.65	32.6	38
	1 x 4.0	4.95	0.8	4.20	48	50
	1 x 6.0	3.30	0.8	4.78	69	66
	1 x 10	1.91	1.0	6.10	113	89
	1 x 16	1.21	1.0	7.10	117	115
	1 x 25	0.780	1.2	8.80	250	152
	1 x 35	0.554	1.2	10.0	345	189

Remark: Dimensions and weights are representative figures and may vary by ± 5 %.

Current rating correction factor for ambient temperature							
Ambient Temperature	35 °C	40 °C	45 °C	50 °C	55 °C	60 °C	65 °C
Correction factor	0.94	0.87	0.79	0.71	0.61	0.50	0.35