

Single Core PVC 1kV Cable

General Purpose Wire (Housewire)



Cable Description

High conductivity annealed stranded or solid copper conductors to SANS 1411 Part 1. Insulated with general purpose grade PVC in plain colours to SANS 1411 Part 2.

Installation Information

For the wiring of :

- Industrial Buildings
- Control Panels

Properties

Specification	: SANS 1507-3
Temperature Range	: -10°C to 70°C
Voltage Rating	: 600 / 1000V
Core Identification	: Blue, Black, Yellow/Green, White, Red
Packaging	: 100m shrink-wrapped coils up to 70mm ² : Over 70mm ² on 300m drums

Technical Data

Cable Size	Nominal Stranding No. x diameter	Approx. Overall Diameter	Current Rating *	Conductor Resistance @ 20°C Maximum	1 ϕ Volt Drop	Approx. Cable Mass per 100m Coil
(mm ²)		(mm)	(A)	(Ω /km)	(mV/A/m)	(kg)
25	19/1,38**	8,4	104	0,73	1,7	25,6
35	19/1,62**	9,5	125	0,52	1,3	34,7
50	19/1,88**	11,3	149	0,39	0,93	47,2
70	19/2,28**	12,6	190	0,27	0,65	66,1
95	19/2,50	15,8	238	0,19	0,48	97,6
120	37/2,03	17,5	272	0,15	0,38	120,0
150	37/2,28	19,7	308	0,12	0,32	147,0
185	37/2,50	22,0	350	0,10	0,26	182,2
240	61/2,28	25,0	408	0,08	0,21	235,0
300	61/2,50	27,5	463	0,06	0,18	298,0
400	61/2,80	31,0	531	0,05	0,16	379,0
500	61/3,15	34,5	610	0,04	0,14	483,1
630	91/2,93	38,0	696	0,03	0,13	622,5

- * **Note:**
- Rating calculated for 1kV cable.
 - Rating based on two touching cables installed in a duct.
 - Assumed ambient air temperature is 30°C.
 - Assumed maximum conductor temperature is 70°C.

- ** **Note:**
- Compacted Conductors