



Cable Description

Copper conductors to SANS 1411 Part 1, PVC insulated to SANS 1411 Part 2, laid up with a bare copper earth-continuity-conductor between them, UV stable PVC sheathed to SANS 1411 Part 2.

Installation Information

Complies with SANS 10142/2001 "Code of Practice for the wiring of Premises" Section 6, Clause 6.3.6:

- Surface wiring
- Under-plaster wiring
- Roof access wiring
- Wiring in hollow walls

Note: The cable shall not be buried direct in concrete or in screed. Joints in the wiring shall be in boxes only.

Properties

Specification	: SANS 1507-2
Temperature Range	: -10°C to 70°C
Voltage Rating	: 300/500V
Sheath Identification	: White & Black
Core Identification	: 2 Core - Red & Black, 3 Core - Red, Yellow, Blue
Packaging	: 100m shrink-wrapped coils

Technical Data

Cable Size *	Electrical Properties				Physical Properties			
	Conductor Resistance (dc @ 20°C)		Current Rating **	Volt Drop ***	1 Sec Short Circuit Rating	Approx. Overall Diameter	Approx. Cable Mass	
	Phase	Earth						Phase
(mm ²)	(mm ²)	(Ω/km)	(Ω/km)	(A)	(mV/A/m)	(kA)	(mm)	(kg/100m)
2 Core								
1,5	1	12,1	18,1	17	29	0,14	8,7 x 4,7	8,7
2,5	1,5	7,4	12,1	23	18	0,24	10,3 x 5,5	12,8
4	1,5	4,61	12,1	30	11	0,38	11,9 x 6,4	17,5
6	2,5	3,08	7,41	38	7,3	0,58	13,4 x 7,0	23,3
10	4	1,83	4,61	52	4,4	0,96	16,5 x 8,3	36,1
3 Core (Trip)								
1	1	18,2	18,2	12	38	0,11	4,4 x 10,4	8,9
1,5	1	12,1	18,2	15	25	0,14	4,8 x 10,5	9,9
2,5	1,5	7,4	12,2	20	15	0,24	5,5 x 12,3	14,1

- Note:**
- * Conductors larger than 2,5mm² are usually stranded.
 - ** Maximum conductor temperature 70° C, and installed as per installation Method 3 of SANS 10142-1.
 - *** 2 Core - Volt drop is phase to Neutral (ie. Single-phase).
3 and 4 Core - Volt drop is phase-to-phase. (ie. Three phase AC).