

# FLAT TWIN AND EARTH CABLE

## 300/500V

### 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



### Properties

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

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

## Technical Data

Cable Size		Electrical Properties				Physical Properties		
		Conductor Resistance (dc at 20°C)		Current Rating	Volt Drop	1 Sec Short Circuit Rating	Approximate Overall Diameter	Approximate Cable Mass
Phase	Earth	Phase	Earth					
(mm²)		(Ω/km)		(A)	(mV/A/m)	(kA)	(mm)	(kg/100m)
<b>2 Core</b>								
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
<b>3 Core (Trip)</b>								
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 (i.e. Single-phase).
- 3 and 4 Core - Volt drop is phase-to-phase. (i.e. Three phase AC).

Code Table		Product Code			
Cable Size		Colours			
		Black		White	
(mm²)		2 Core	3 Core	2 Core	3 Core
1		F663	-	F665	F659
1,5		F667	-	F669	F660
2,5		F671	-	F672	F661
4		F674	-	F675	-
6		-	-	F676	-
10		F678	-	F679	-
16		-	-	F681	-

For items marked with a dash (-) please enquire at branch or reference website.