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-plastering wiring
- Roof access wiring
- Wiring in hollow walls

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

Properties

Specifications	: SANS 1507-2	Sheath Identification	: White or black
Temperature Range	: -10°C to 70°C	Core Identification	: **2 Core** - Red and black, **3 Core** - Red, yellow, blue
Voltage Rating	: 300/500V	Packaging	: 100mt shrink-wrapped coils

Technical Data

Cable Size*		Electrical Properties					Physical Properties	
		Conductor Resistance (DC @ 20°C)		Current Rating**	Voltage Drop***	1 Second Short Circuit Rating	Approximate Overall Diameter	Approximate Cable Mass
Phase	Earth	Phase	Earth					
(mm²)		(Ω/km)		(A)	(mV/A/mt)	(kA)	(mm)	(kg/100mt)
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

Product Code

Cable Size	Black		White	
(mm²)	2 Core	3 Core	2 Core	3 Core
1	F0000663	-	F0000665	F0000659
1,5	F0000667	-	F0000669	F0000660
2,5	F0000671	-	F0000672	F0000661
4	F0000674		F0000675	
6	-		F0000676	
10	F0000678		F0000679	
16	-		F0000681	

*Note - Conductors larger than 2,5mm² are usually stranded.
**Note - Maximum conductor temperature 70°C and installed as per installation method 3 of SANS 10142-1.
***Note - 2 core - voltage drop is phase to neutral (i.e. single-phase).
          - 3 and 4 core - voltage drop is phase-to-phase. (i.e. three phase AC).

Note - Items above with (-) in the Product Code column are available on special request.