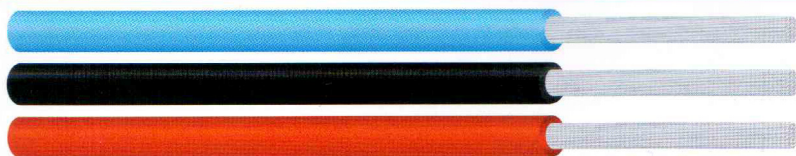




SILICONE

SINGLE CORE FLEXIBLE WIRING CABLE

ABERDARE
POWER CABLES



CABLE DESCRIPTION

High conductivity tinned stranded, flexible copper conductors to SANS 1411 Part 1. Insulated with Silicone Rubber Type RD7 to SABS 1411 Part 3 in various colours.

INSTALLATION INFORMATION

For the wiring of all types of:

- Control Panels
- Appliances
- Light Fittings
- All High Temperature Applications

PROPERTIES

- Specification : SANS 1574 & VDE 0282
- Temperature Range : -50°C to 180°C
- : -50°C to 250°C (High Temperature) and mostly manufactured in White
- Voltage Rating : 300 / 500 V (0,5 mm² - 16 mm²) and 600 / 1000V (0,5 mm² - 95 mm²)
- Core Identification : Red, Black, Blue, Brown, Green/Yellow and White (Other colours available on request)
- Insulation is halogen free and has a low smoke emission. Limiting Oxygen Index is 24%.
- Packaging : Shrink-wrapped - coils 100m 0,5 - 35 mm²
- reels 50m 50 - 95 mm²

TECHNICAL DATA

Cable Size (mm ²)	Nominal Stranding No. x diameter	Approx. Cable Diameter		Conductor AC Resistance		Current Rating *				Approx. Cable Mass	
						Single Cable		Cables in Trefoil			
		300/500V	600/1000V	180°C	250°C	180°C	180°C	250°C	250°C	300/500V	600/1000V
(mm ²)		(mm)		(Ω/km)		(A)				(kg/km)	
0,5	16/0,2	2,2	2,3	65,3	76,3	18	12	24	15	9,4	10,7
0,75	24/0,2	2,4	2,6	43,5	50,8	24	15	30	19	12,6	13,4
1	32/0,2	2,5	3,1	32,6	38,1	27	18	36	23	15,6	18,1
1,5	30/0,25	3,2	3,6	22,3	26,1	35	24	46	31	22,4	23,9
2,5	50/0,25	3,9	4,3	13,4	15,6	48	33	62	43	34,7	37,4
4	56/0,3	4,7	5,0	8,29	9,70	65	45	84	59	54,4	54,4
6	81/0,3	5,2	5,5	5,52	6,45	83	58	110	76	75,2	75,2
10	77/0,4	6,6	6,8	3,18	3,71	117	84	151	109	118,5	118,5
16	125/0,4	7,6	7,9	2,02	2,36	155	113	201	147	180,7	180,7
25	184/0,4	N/A	10,5	1,29	N/A	212	158	N/A	N/A	N/A	280
35	267/0,4		12,1	0,92		265	199				391
50	378/0,4		14,5	0,64		338	257				551
70	341/0,5		16,2	0,45		418	319				750
95	456/0,5		19,0	0,34		512	395				1010

Current Rating based on - Ambient temperature, °C : 80
Maximum Conductor temperature °C : 180 & 250 (See table)

* Capable of continuous current rating at 180°C and 250°C (See table) if there are no limits imposed by environmental conditions.

Derating of Current Rating for other Ambient Temperatures

Ambient temperature, °C : 40 60 80 100 120 140 160
Rating factor, X : 1,22 1,12 1 0,87 0,73 0,57 0,37