



Cable Description

High conductivity tinned stranded, flexible copper conductors to SANS 1411 Part 1. Insulated with Silicone Rubber Type RD7 to SABS 1574 Part 4, H05S-F & HIS-F 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 Pt4
- Temperature Range : -50°C to 150°C (Capable of current rating at 180°C if there are no limits imposed by environmental conditions)
- Voltage Rating : 300 / 500V (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 : 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 100m 50 mm²
 - 50m 70 - 95 mm²
 - Barrels 4000m 0,5 - 1,0 mm²
 - Barrels 3000m 1,5 mm²
 - Barrels 2500m 2,5 mm²

Technical Data

Cable Size (mm ²)	Nominal Stranding No. x diameter	Approx. Cable Diameter		Conductor AC Resistance (Ω/km)	Current Rating *		Approx. Cable Mass	
		300/500V	600/1000V		Single Cable	Cables in Trefoil	300/500V	600/1000V
		(mm)			180°C	180°C	(kg/km)	
0,5	16/0,2	2,2	2,6	65,3	21	13	8,8	10,7
0,75	24/0,2	2,4	2,8	43,5	26	17	11,7	13,4
1	32/0,2	2,5	3,0	32,6	30	19	14,3	18,1
1,5	30/0,25	3,2	3,3	22,3	37	24	22,4	23,9
2,5	50/0,25	3,9	3,7	13,4	49	31	34,7	37,4
4	56/0,3	4,7	4,8	8,29	65	42	52,4	54,4
6	81/0,3	5,2	5,3	5,52	81	52	71,2	75,2
10	77/0,4	6,6	6,3	3,18	112	72	117,8	118,5
16	125/0,4	7,6	7,2	2,02	143	92	180,7	180,7
25	184/0,4	N/A	9,5	1,29	190	124	N/A	280
35	267/0,4		10,9	0,92	230	151		391
50	378/0,4		13,2	0,64	282	186		551
70	341/0,5		14,4	0,45	352	234		750
95	456/0,5		17,3	0,34	423	285		1010

- * Note:
- Capable of continuous current rating at 180°C and 250°C (See table) if there are no limits imposed by environmental conditions.
 - Ambient temperature, 80°C
 - Maximum Conductor temperature 150°C (See table)
 - 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