

Low Voltage 4 Core PVC Bells Cables

1kV Unarmoured

Description: 4 Core Cu PVC FRPVC, 1000 V
4 Core Cu PVC LHFRPVC, 1000 V

F4CC 4nnn ZZ 001 0K0S (Red Stripe)
F4CC 4nnn ZZ 002 0K0S (Blue Stripe)

Specification: SANS 1507

Last updated: January 2026

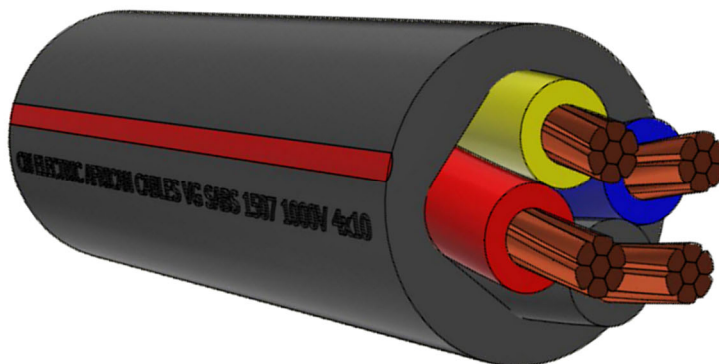
PHYSICAL	... naaa ...	4915	4925	4004	4006	4010	4016
Conductor size	mm ² nom	1,5	2,5	4	6	10	16
Conductor diameter	mm app	1,6	2,0	2,6	3,1	3,9	4,5
Insulation diameter	mm app	3,2	3,6	4,6	5,2	6,0	6,6
Layup diameter	mm app	7,8	8,8	11,1	12,4	14,4	15,1
Armour diameter	mm app	-	-	-	-	-	-
Cable diameter	mm app	11,2	12,2	15,0	16,3	18,3	18,9
Length of cable on a drum	m	500	500	500	500	500	500
Cable mass (approximate)	kg/m app	0,2	0,2	0,3	0,4	0,6	0,9
Gross mass on drum	kg app	108	132	190	242	330	482
Bending radius	mm min	90	98	120	130	146	152
ELECTRICAL							
DC Resistance @ 20 °C	Ω/km	12,100	7,410	4,610	3,080	1,830	1,150
AC Resistance @ 70 °C	Ω/km	14,478	8,866	5,516	3,685	2,190	1,376
Reactance X+	Ω/km	0,069	0,065	0,065	0,065	0,065	0,057
Impedance Z+	Ω/km	14,478	8,866	5,516	3,686	2,191	1,377
Capacitance C+	µF/km	0,298	0,327	0,329	0,354	0,388	0,413
Resistance Ro	Ω/km	57,911	35,464	22,064	14,741	8,759	5,504
Reactance Xo	Ω/km	N/A	N/A	N/A	N/A	N/A	N/A
CURRENT RATINGS							
Ground	Amps	25	33	43	53	71	93
Ducts in ground	Amps	20	26	34	43	57	74
Air in Shade	Amps	20	26	35	45	61	79
Air in sunlight	Amps	16	21	28	36	48	63
SHORT CIRCUIT RATING							
Symmetrical (160 °C)	kA (1 sec)	0,2	0,3	0,5	0,7	1,2	1,84
Earth fault (160 °C)	kA (1 sec)	0,0	0,0	0,0	0,0	0,0	0,0
Three Phase Volt drop	mV/A/m	25,1	15,4	9,6	6,4	3,8	2,4

* In practice the earth fault rating must be limited to symmetrical fault rating.

Shaped

The current ratings above are based on standard laying conditions for a single circuit in isolation as follows:

- Conductor temperature = 70 °C
- Soil thermal resistivity = 1,2 K·m/W
- Soil temperature = 25 °C
- Air temperature = 30 °C
- Depth of burial = 500 mm
- 5% tolerance on dimensions



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