

Low Voltage 2 Core XLPE Bells Cables

1kV Unarmoured

Description: 2 Core Cu XLPE FRPVC, 1000 V
2 Core Cu XLPE LHFRPVC, 1000 V

F2CC 2nnn ZZ 001 0K0S (Red stripe)
F2CC 2nnn ZZ 002 0K0S (Blue stripe)

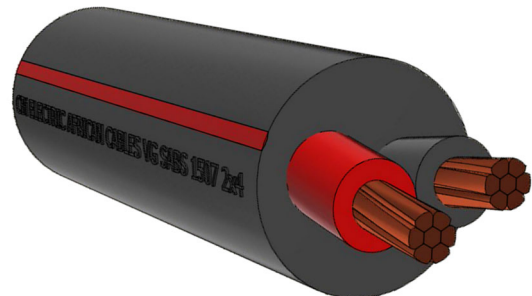
Specification: SANS 1507

Last updated: December 2025

PHYSICAL	... naaa ...	2915	2925	2004	2006	2010	2016
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	4,8
Insulation diameter	mm app	3,0	3,4	4,0	4,5	5,3	6,2
Layup diameter	mm app	6,1	6,9	8,0	9,1	10,7	12,5
Armour diameter	mm app	-	-	-	-	-	-
Cable diameter	mm app	9,5	10,3	11,4	12,5	14,6	16,4
Length of cable on a drum	m	500	500	500	500	500	500
Cable mass (approximate)	kg/m app	0,1	0,2	0,2	0,3	0,4	0,5
Gross mass on drum	kg app	78	94	124	152	214	295
Bending radius	mm min	76	83	91	100	117	131
ELECTRICAL							
DC Resistance @ 20 °C	Ω/km	12,100	7,410	4,610	3,080	1,830	1,150
AC Resistance @ 90 °C	Ω/km	15,429	9,449	5,878	3,927	2,334	1,467
Reactance X+	Ω/km	0,069	0,065	0,065	0,065	0,065	0,065
Impedance Z+	Ω/km	15,429	9,449	5,879	3,928	2,334	1,468
Capacitance C+	µF/km	0,056	0,062	0,069	0,076	0,084	0,093
Resistance Ro	Ω/km	61,715	37,794	23,513	15,709	9,334	5,866
Reactance Xo	Ω/km	N/A	N/A	N/A	N/A	N/A	N/A
CURRENT RATINGS							
Ground	Amps	34	45	59	74	98	128
Ducts in ground	Amps	28	37	48	60	79	103
Air in Shade	Amps	28	37	49	62	85	112
Air in sunlight	Amps	25	33	44	55	75	100
SHORT CIRCUIT RATING							
Symmetrical (250 °C)	kA (1 sec)	0,2	0,4	0,6	0,9	1,4	2,3
Earth fault (200 °C)	kA (1 sec)	0,0	0,0	0,0	0,0	0,0	0,0
Single Phase Volt drop	mV/A/m	30,9	18,9	11,8	7,9	4,7	2,9

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

Conductor temperature = 90 °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



DISCLAIMER: CBI reserves the right to change product specifications from time to time to effect improvements and /or enhancements and accepts no liability arising from any difference between the published parameters of this data sheet and the finished product, unless by prior written agreement.

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