

Low Voltage 2 Core PVC Bells Cables

1kV Armoured ECC

Description: 2 Core Cu PVC FRPVC SWA ECC FRPVC, 1000 V F4CC 2nnn ZZ 111 0K0S (Red Stripe)
2 Core Cu PVC LHFRPVC SWA ECC LHFRPVC, 1000 V F4CC 2nnn ZZ 212 0K0S (Blue Stripe)

Specification: SANS 1507

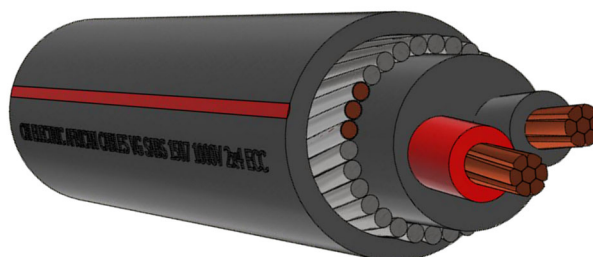
Last updated: January 2026

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	3,2	3,6	4,6	5,2	6,0	6,9
Bedding diameter	mm app	8,2	9,0	11,0	12,1	13,7	15,5
Armour diameter	mm app	10,0	10,8	12,8	13,9	15,5	17,3
Cable diameter	mm app	13,0	14,0	16,0	17,1	18,9	20,7
Length of cable on a drum	m	500	500	500	500	500	500
Cable mass (approximate)	kg/m app	0,3	0,4	0,5	0,5	0,7	0,8
Gross mass on drum	kg app	176	203	259	297	383	467
Bending radius	mm min	130	140	160	171	189	207
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	0,065
Impedance Z+	Ω/km	14,478	8,866	5,516	3,686	2,191	1,378
Capacitance C+	µF/km	0,470	0,523	0,542	0,592	0,663	0,734
Resistance Ro	Ω/km	32,965	23,768	17,426	12,202	8,783	5,814
Reactance Xo	Ω/km	0,403	0,364	0,355	0,333	0,315	0,295
CURRENT RATINGS							
Ground	Amps	29	38	49	61	82	106
Ducts in ground	Amps	24	31	40	50	67	87
Air in Shade	Amps	23	31	41	52	70	93
Air in sunlight	Amps	19	25	33	41	56	73
SHORT CIRCUIT RATING							
Symmetrical (160 °C)	kA (1 sec)	0,2	0,3	0,5	0,7	1,2	1,8
Earth fault (160 °C)	kA (1 sec)	0,4*	0,5*	0,6*	0,9*	1,2*	1,7
Single Phase Volt drop	mV/A/m	29,0	17,7	11,0	7,4	4,4	2,8

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

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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