

Low Voltage 2 Core PVC Bells Cables

1kV Armoured

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

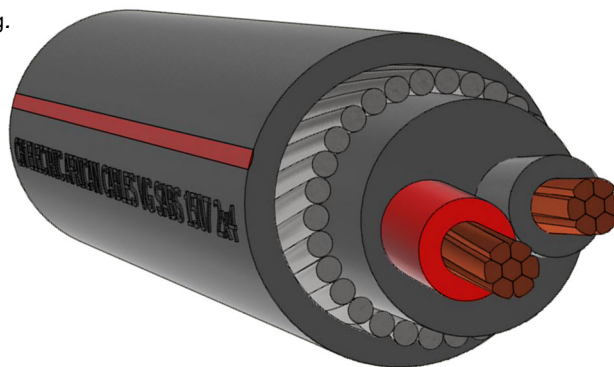
Specification: SANS 1507 Last updated: January 2026

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	175	202	257	295	380	461
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	43,344	35,146	27,636	23,768	20,219	17,426
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)	0,9*	1,0*	1,2*	1,3*	1,4*	1,6*
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



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS