

Low Voltage 4 Core PVC Bells Cables

1kV Armoured ECC

Description: 4 Core Cu PVC FRPVC SWA ECC FRPVC, 1000 V F4CC 4nnn ZZ 121 0K0S (Red Stripe)
4 Core Cu PVC LHFRPVC SWA ECC LHFRPVC, 1000 V F4CC 4nnn ZZ 222 0K0S (Blue Stripe)

Specification: SANS 1507

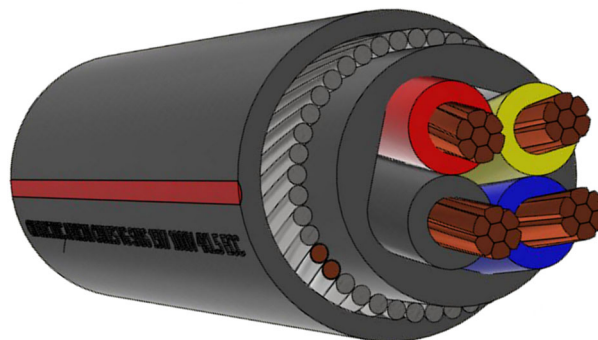
Last updated: January 2026

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
Bedding diameter	mm app	9,5	10,5	12,9	14,2	16,1	16,8
Armour diameter	mm app	11,3	12,3	14,7	16,0	17,9	18,6
Cable diameter	mm app	14,5	15,5	17,9	19,4	21,4	22,0
Length of cable on a drum	m	500	500	500	500	500	500
Cable mass (approximate)	kg/m app	0,4	0,5	0,7	0,8	1,0	1,3
Gross mass on drum	kg app	232	271	374	442	557	677
Bending radius	mm min	145	155	179	194	214	220
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	0,444	0,492	0,511	0,555	0,618	0,882
Resistance Ro	Ω/km	31,461	22,547	16,483	11,711	8,391	5,808
Reactance Xo	Ω/km	0,428	0,390	0,383	0,362	0,344	0,325
CURRENT RATINGS							
Ground	Amps	25	33	43	53	71	95
Ducts in ground	Amps	20	27	35	43	58	76
Air in Shade	Amps	21	27	36	46	63	84
Air in sunlight	Amps	17	22	29	36	49	66
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)	0,5	0,6	0,7	1,0	1,2	1,7
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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