

Low Voltage PVC Control Cables

Description: 7 Core Cu PVC FRPVC SWA ECC FRPVC, 1000 V
7 Core Cu PVC LHFRPVC SWA ECC LHFRPVC, 1000 V

F4CC 7nnn ZZ 121 0K0S
F4CC 7nnn ZZ 222 0K0S

Specification: SANS 1507

Last updated: January 2026

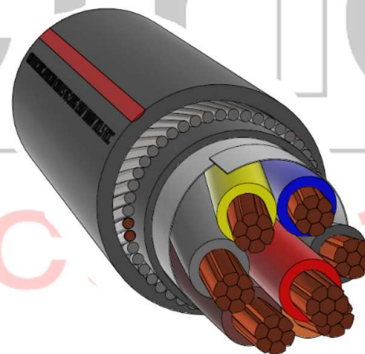
PHYSICAL	...7nnn...	7915	7925	7004	7006	7010
Conductor size	mm ² nom	1,5	2,5	4	6	10
Conductor diameter	mm app	1,6	2,1	2,6	3,1	3,9
Insulation diameter	mm app	3,2	3,7	4,6	5,2	6,0
Bedding diameter	mm app	12,7	14,2	17,0	18,7	21,0
Armour diameter	mm app	15,2	16,7	19,5	21,2	23,5
Cable diameter	mm app	18,7	20,1	22,9	24,9	27,1
Length of cable on a drum	m	500	500	500	500	500
Cable mass (approximate)	kg/m app	0,7	0,8	1,1	1,3	1,6
Gross mass on drum	kg app	393	456	576	695	898
Bending radius	mm min	187	201	229	249	271
ELECTRICAL						
DC Resistance @ 20 °C	Ω/km	12,100	7,410	4,610	3,080	1,830
AC Resistance @ 70 °C	Ω/km	14,478	8,866	5,516	3,685	2,190
Reactance X+	Ω/km	0,096	0,084	0,084	0,078	0,073
Impedance Z+	Ω/km	14,478	8,866	5,517	3,686	2,191
CURRENT RATINGS						
Ground	Amps	18	24	31	39	52
110 Ducts in ground	Amps	15	19	25	31	41
Air in Shade	Amps	16	21	28	35	48
Air in sunlight	Amps	12	17	22	28	37
SHORT CIRCUIT RATING						
Symmetrical (160 °C)	kA (1 sec)	0,17	0,29	0,46	0,69	1,15
Earth fault (160 °C)	kA (1 sec)	1,72	1,93	2,21	2,36	2,57
(Three Phase) Volt Drop	mV/A/m	25,1	15,4	9,6	6,4	3,8

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

Note ratings assume that all conductors carry equal currents simultaneously

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



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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CBI-electric: african cables | a division of ATC (Pty) Ltd | Registration No. 1955/003773/07
PO Box 172, Vereeniging 1930 | Steel Road, Peacehaven, Vereeniging, 1939, South Africa
Tel: +27 16 430 6000 | www.cbi-electric.com | Member of the REUNERT Group | B-BBEE Level 1
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