

Low Voltage PVC Control Cables

Description: 19 Core Cu PVC FRPVC SWA ECC FRPVC, 1000 V
19 Core Cu PVC LHFRPVC SWA ECC LHFRPVC, 1000 V

F4CC Bnnn ZZ 121 0K0S
F4CC Bnnn ZZ 222 0K0S

Specification: SANS 1507

Last updated: January 2026

PHYSICAL	...Bnnn	B915	B925	B004
Conductor size	mm ² nom	1,5	2,5	4
Conductor diameter	mm app	1,6	2,1	2,6
Insulation diameter	mm app	3,2	3,7	4,6
Bedding diameter	mm app	19,2	21,6	26,3
Armour diameter	mm app	21,7	24,1	30,3
Cable diameter	mm app	25,3	27,7	34,6
Length of cable on a drum	m	500	500	500
Cable mass (approximate)	kg/m app	1,2	1,5	2,5
Gross mass on drum	kg app	664	833	1367
Bending radius	mm min	253	277	346
ELECTRICAL				
DC Resistance @ 20 °C	Ω/km	12,100	7,410	4,610
AC Resistance @ 70 °C	Ω/km	14,478	8,866	5,516
Reactance X+	Ω/km	0,128	0,116	0,116
Impedance Z+	Ω/km	14,478	8,867	5,517
CURRENT RATINGS				
Ground	Amps	12	16	21
110 Ducts in ground	Amps	10	13	17
Air in Shade	Amps	11	15	20
Air in sunlight	Amps	9	11	16
SHORT CIRCUIT RATING				
Symmetrical (160 °C)	kA (1 sec)	0,17	0,29	0,46
Earth fault (160 °C)	kA (1 sec)	4,89	5,47	10,32
(Three Phase) Volt Drop	mV/A/m	25,1	15,4	9,6

* 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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