

Low Voltage PVC Control Cables

1kV 27 core Armoured

Description: 27Core Cu PVC FRPVC SWA FRPVC, 1000 V
27 Core Cu PVC LHFRPVC SWA LHFRPVC, 1000 V

F4CC Cnnn ZZ 111 0K0S
F4CC Cnnn ZZ 212 0K0S

Specification: SANS 1507

Last updated: January 2026

PHYSICAL	...Cnnn....	C915	C925	C004
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	22,9	25,9	32,1
Armour diameter	mm app	26,9	29,9	36,1
Cable diameter	mm app	30,8	33,7	40,9
Length of cable on a drum	m	500	500	500
Cable mass (approximate)	kg/m app	1,9	2,4	3,4
Gross mass on drum	kg app	1055	1290	1886
Bending radius	mm min	308	337	409
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	0,144	0,132	0,132
Impedance Z+	Ω/km	14,478	8,867	5,517
CURRENT RATINGS				
Ground	Amps	11	14	18
110 Ducts in ground	Amps	8	11	14
Air in Shade	Amps	10	13	18
Air in sunlight	Amps	8	10	14
SHORT CIRCUIT RATING				
Symmetrical (160 °C)	kA (1 sec)	0,17	0,29	0,46
Earth fault (160 °C)	kA (1 sec)	5,36*	5,93*	7,31*
(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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