

Low Voltage PVC Control Cables

1kV 12 core Unarmoured

Description: 12 Core Cu PVC FRPVC, 1000 V
12 Core Cu PVC LHFRPVC, 1000 V

F4CC Annn ZZ 001 0K0S
F4CC Annn ZZ 002 0K0S

Specification: SANS 1507

Last updated: January 2026

PHYSICAL	...Annn...	A915	A925	A004
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	13,8	15,8	19,7
Cable diameter	mm app	17,7	19,7	23,6
Length of cable on a drum	m	500	500	500
Cable mass (approximate)	kg/m app	0,4	0,6	0,8
Gross mass on drum	kg app	242	329	462
Bending radius	mm min	141	157	189
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	0,119	0,106	0,106
Impedance Z+	Ω/km	14,478	8,867	5,517
CURRENT RATINGS				
Ground	Amps	15	19	25
110 Ducts in ground	Amps	11	15	20
Air in Shade	Amps	12	17	23
Air in sunlight	Amps	10	13	18
SHORT CIRCUIT RATING				
Symmetrical (160 °C)	kA (1 sec)	0,17	0,29	0,46
(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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