

# Low Voltage PVC Control Cables

## 1kV 7 core Unarmoured

**Description:** 7 Core Cu PVC FRPVC, 1000 V  
7 Core Cu PVC LHRPVC, 1000 V

**F4CC 7nnn ZZ 001 0K0S**  
**F4CC 7nnn ZZ 002 0K0S**

**Specification:** SANS 1507

*Last updated: January 2026*

PHYSICAL	...7nnn...	7915	7925	7004	7006	7010
Conductor size	mm <sup>2</sup> 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	10,1	11,5	14,3	16,0	18,3
Cable diameter	mm app	13,9	15,4	18,2	19,9	22,2
Length of cable on a drum	m	500	500	500	500	500
Cable mass (approximate)	kg/m app	0,3	0,4	0,5	0,7	1,0
Gross mass on drum	kg app	160	203	293	383	530
Bending radius	mm min	112	123	146	159	177
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	19	24	32	40	53
110 Ducts in ground	Amps	14	19	25	31	41
Air in Shade	Amps	15	20	27	34	47
Air in sunlight	Amps	12	16	21	27	37
SHORT CIRCUIT RATING						
Symmetrical (160 °C)	kA (1 sec)	0,17	0,29	0,46	0,69	1,15
(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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