

# Low Voltage XLPE Control Cables

## 1kV 7 core Unarmoured

**Description:** 7 Core Cu XLPE FRPVC, 1000 V  
7 Core Cu XLPE LHFRPVC, 1000 V

**F2CC 7nnn ZZ 001 0K0S**  
**F2CC 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	3,0	3,5	4,0	4,6	5,3
Bedding diameter	mm app	9,4	10,9	12,4	14,1	16,4
Cable diameter	mm app	12,9	14,7	16,3	18,0	20,2
Length of cable on a drum	m	500	500	500	500	500
Cable mass (approximate)	kg/m app	0,2	0,3	0,4	0,6	0,8
Gross mass on drum	kg app	133	180	243	315	467
Bending radius	mm min	103	118	130	144	162
ELECTRICAL						
DC Resistance @ 20 °C	Ω/km	12,100	7,410	4,610	3,080	1,830
AC Resistance @ 90 °C	Ω/km	15,429	9,448	5,878	3,927	2,333
Reactance X+	Ω/km	0,092	0,080	0,074	0,070	0,066
Impedance Z+	Ω/km	15,492	9,449	5,879	3,928	2,334
CURRENT RATINGS						
Ground	Amps	22	28	37	40	61
110 Ducts in ground	Amps	17	22	29	36	48
Air in Shade	Amps	18	24	32	41	56
Air in sunlight	Amps	16	22	29	36	49
SHORT CIRCUIT RATING						
Symmetrical (250 °C)	kA (1 sec)	0,15	0,25	0,40	0,60	1,00
(Three Phase) Volt Drop	mV/A/m	26,7	16,4	10,2	6,8	4,0

\* 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 = 90 °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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