

Low Voltage XLPE Control Cables

1kV 12 core Armoured

Description: 12 Core Cu XLPE FRPVC SWA FRPVC, 1000 V
12 Core Cu XLPE LHFRPVC SWA LHFRPVC, 1000 V

F2CC 7nnn ZZ 111 0K0S
F2CC 7nnn ZZ 212 0K0S

Specification: SANS 1507

Last updated: January 2026

PHYSICAL	...7nnn	7915	7925	7004
Conductor size	mm ² nom	1,5	2,5	4
Conductor diameter	mm app	1,6	2,1	2,6
Insulation diameter	mm app	3,0	3,5	4,0
Bedding diameter	mm app	15,6	17,6	19,7
Armour diameter	mm app	18,1	20,1	22,2
Cable diameter	mm app	21,5	23,7	25,8
Length of cable on a drum	m	500	500	500
Cable mass (approximate)	kg/m app	0,9	1,1	1,3
Gross mass on drum	kg app	472	568	727
Bending radius	mm min	215	237	258
ELECTRICAL				
DC Resistance @ 20 °C	Ω/km	12,100	7,410	4,610
AC Resistance @ 90 °C	Ω/km	15,429	9,449	5,878
Reactance X+	Ω/km	0,115	0,102	0,097
Impedance Z+	Ω/km	15,429	9,449	5,879
CURRENT RATINGS				
Ground	Amps	17	22	29
110 Ducts in ground	Amps	14	18	23
Air in Shade	Amps	16	21	28
Air in sunlight	Amps	14	18	24
SHORT CIRCUIT RATING				
Symmetrical (250 °C)	kA (1 sec)	0,15	0,25	0,40
Earth fault (200 °C)	kA (1 sec)	2,48	2,71	3,01
(Three Phase) Volt Drop	mV/A/m	26,7	16,4	10,2

* 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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