

Low Voltage XLPE Control Cables

Description: 19 Core Cu XLPE FRPVC SWA ECC FRPVC, 1000 V

F2CC Bnnn ZZ 121 0K0S

19 Core Cu XLPE LHFRPVC SWA ECC LHFRPVC, 1000 V

F2CC Bnnn ZZ 222 0K0S

Specification: SANS 1507

Last updated: January 2026

PHYSICAL	...Bnnn	B915	B925	B004
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	18,1	20,5	23,1
Armour diameter	mm app	20,6	23,0	27,1
Cable diameter	mm app	24,3	26,7	30,9
Length of cable on a drum	m	500	500	500
Cable mass (approximate)	kg/m app	1,1	1,4	2,1
Gross mass on drum	kg app	599	755	1142
Bending radius	mm min	243	267	309
ELECTRICAL				
DC Resistance @ 20 °C	Ω/km	12,100	7,410	4,610
AC Resistance @ 90 °C	Ω/km	15,429	9,448	5,878
Reactance X+	Ω/km	0,124	0,112	0,107
Impedance Z+	Ω/km	15,429	9,449	5,879
CURRENT RATINGS				
Ground	Amps	14	18	21
110 Ducts in ground	Amps	11	15	19
Air in Shade	Amps	13	18	24
Air in sunlight	Amps	12	16	21
SHORT CIRCUIT RATING				
Symmetrical (250 °C)	kA (1 sec)	0,15	0,25	0,40
Earth fault (200 °C)	kA (1 sec)	4,96	5,45	9,70
(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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