

Low Voltage XLPE Control Cables

1kV 27 core Armoured With ECC

Description: 27 Core Cu XLPE FRPVC SWA ECC FRPVC, 1000 V
27 Core Cu XLPE LHFRPVC SWA ECC LHFRPVC, 1000 V

F2CC Cnnn ZZ 121 0K0S
F2CC Cnnn ZZ 222 0K0S

Specification: SANS 1507

Last updated: January 2026

PHYSICAL	...Cnnn	C915	C925	C004
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	21,6	24,5	28,1
Armour diameter	mm app	24,1	28,5	32,1
Cable diameter	mm app	27,7	32,4	36,5
Length of cable on a drum	m	500	500	500
Cable mass (approximate)	kg/m app	1,4	2,1	2,8
Gross mass on drum	kg app	761	1154	1565
Bending radius	mm min	277	324	365
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	0,140	0,128	0,122
Impedance Z+	Ω/km	15,429	9,449	5,880
CURRENT RATINGS				
Ground	Amps	12	16	20
110 Ducts in ground	Amps	10	13	16
Air in Shade	Amps	12	16	21
Air in sunlight	Amps	10	14	18
SHORT CIRCUIT RATING				
Symmetrical (250 °C)	kA (1 sec)	0,15	0,25	0,40
Earth fault (200 °C)	kA (1 sec)	3,37	5,99	6,77
(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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