

Low Voltage XLPE Control Cables

1kV 37 core Unarmoured

Description: 37 Core Cu XLPE FRPVC, 1000 V
37 Core Cu XLPE LHFRPVC, 1000 V

F2CC Dnnn ZZ 001 0K0S
F2CC Dnnn ZZ 002 0K0S

Specification: SANS 1507

Last updated: January 2026

PHYSICAL	...Dnnn	D915	D925	D004
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	21,5	24,8	28,4
Cable diameter	mm app	25,8	29,1	32,7
Length of cable on a drum	m	500	500	500
Cable mass (approximate)	kg/m app	0,9	1,3	1,8
Gross mass on drum	kg app	531	729	1007
Bending radius	mm min	206	233	262
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	0,145	0,133	0,128
Impedance Z+	Ω/km	15,429	9,449	5,880
CURRENT RATINGS				
Ground	Amps	11	14	18
110 Ducts in ground	Amps	8	11	14
Air in Shade	Amps	11	14	19
Air in sunlight	Amps	9	12	16
SHORT CIRCUIT RATING				
Symmetrical (250 °C)	kA (1 sec)	0,15	0,25	0,40
(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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