

Low Voltage 3 Core LV XLPE Cable Not armoured

Cable Code F2DC 3nnn ZZ 001 0K0S

Description 3 Core Cu XLPE PVC PVC, 3300 V

Specification SANS 1507

Last updated: May 2025

PHYSICAL	... naaa ...	3010	3016
Conductor size	mm ² nom	10	16
Conductor diameter	mm app	3,9	3,9
Insulation diameter	mm app	8,1	8,1
Bedding diameter	mm app	17,6	17,6
Armour diameter	mm app	17,6	17,6
Cable diameter	mm app	21,5	21,5
Length of cable on a drum	m	500	500
Cable mass (approximate)	kg/m app	0,6	0,7
Gross mass on drum	kg app	321	411
Bending radius	mm min	172	172
ELECTRICAL			
DC Resistance @ 20 °C	Ω/km	1,830	1,150
AC Resistance @ 90 °C	Ω/km	2,334	1,466
Reactance X+	Ω/km	0,065	0,048
Impedance Z+	Ω/km	2,334	1,467
Capacitance C+	μF/km	0,157	0,116
Resistance Ro	Ω/km	9,33	5,87
Reactance Xo	Ω/km	N/A	N/A
CURRENT RATINGS			
Ground	Amps	82	108
Ducts in ground	Amps	67	87
Air in Shade	Amps	76	100
Air in sunlight	Amps	67	88
SHORT CIRCUIT RATING			
Symmetrical (250 °C)	kA (1 sec)	1,4	2,3
Earth fault (200 °C)	kA (1 sec)	0,0	0,0

The ratings above are based on standard laying conditions for a single circuit in isolation, with the following parameters:

Conductor temperature = 90 °C
 Soil thermal resistivity = 1.2 Km/W
 Soil temperature = 25 °C
 Air temperature = 30 °C
 Depth of burial = 500 mm
 Single circuit in isolation
 5% tolerance on dimensions

