

Low Voltage 3 Core LV XLPE Cable Armoured

Cable Code F2DC 3nnn ZZ 111 0K0S

Description 3 Core Cu XLPE PVC SWA 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	19,4	19,4
Armour diameter	mm app	21,2	21,2
Cable diameter	mm app	24,8	24,8
Length of cable on a drum	m	500	500
Cable mass (approximate)	kg/m app	1,0	1,2
Gross mass on drum	kg app	567	657
Bending radius	mm min	248	248
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	0,174	0,216
Resistance Ro	Ω/km	15,81	15,31
Reactance Xo	Ω/km	0,377	0,369
CURRENT RATINGS			
Ground	Amps	84	111
Ducts in ground	Amps	69	90
Air in Shade	Amps	79	105
Air in sunlight	Amps	69	92
SHORT CIRCUIT RATING			
Symmetrical (250 °C)	kA (1 sec)	1,4	2,3
Earth fault (200 °C)	kA (1 sec)	2,1*	2,1

* In practice the earth fault rating must be limited to symmetrical fault rating.

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

