

# Low Voltage 3 Core PVC Cables Not armoured

**Cable Code** F4DC 3nnn ZZ 001 0K0S

**Description** 3 Core Cu PVC PVC PVC, 3300 V

**Specification** SANS 1507

Last updated: May 2025

PHYSICAL	... naaa ...	3010	3016
Conductor size	mm <sup>2</sup> nom	10	16
Conductor diameter	mm app	3,9	3,9
Insulation diameter	mm app	8,6	8,6
Bedding diameter	mm app	18,5	18,5
Armour diameter	mm app	18,5	18,5
Cable diameter	mm app	22,4	22,4
Length of cable on a drum	m	500	500
Cable mass (approximate)	kg/m app	0,8	1,0
Gross mass on drum	kg app	447	546
Bending radius	mm min	179	179
ELECTRICAL			
DC Resistance @ 20 °C	Ω/km	1,830	1,150
AC Resistance @ 70 °C	Ω/km	2,190	1,376
Reactance X+	Ω/km	0,065	0,048
Impedance Z+	Ω/km	2,191	1,377
Capacitance C+	µF/km	0,481	0,344
Resistance Ro	Ω/km	8,76	5,50
Reactance Xo	Ω/km	N/A	N/A
CURRENT RATINGS			
Ground	Amps	68	90
Ducts in ground	Amps	56	73
Air in Shade	Amps	61	80
Air in sunlight	Amps	47	63
SHORT CIRCUIT RATING			
Symmetrical (160 °C)	kA (1 sec)	1,2	1,8
Earth fault (160 °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 = 70 °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

