

Low Voltage 3 Core Zerotox Cables

Not armoured

Cable Code F6CC 3nnn ZZ 003 0K0S

Description 3 Core Cu XLPE NHL SFR (Zerotox), 1000 V

Specification SANS 1507

Last updated: May 2025

PHYSICAL	... naaa ...	3915	3925	3004	3006	3010	3016*
Conductor size	mm ² nom	1.5	2.5	4	6	10	16*
Conductor diameter	mm app	1.6	2.1	2.6	3.1	3.9	3.9
Insulation diameter	mm app	3.0	3.5	4.0	4.6	5.3	5.3
Bedding diameter	mm app	-	-	-	-	-	-
Armour diameter	mm app	6.5	7.6	8.7	9.9	11.5	11.5
Cable diameter	mm app	10.0	11.0	12.1	13.4	15.4	15.4
Length of cable on a drum	m	500	500	500	500	500	500
Cable mass (approximate)	kg/m app	0.1	0.1	0.2	0.3	0.4	0.6
Gross mass on drum	kg app	69	94	120	153	222	305
Bending radius	mm min	80	88	97	107	123	123
ELECTRICAL							
DC Resistance @ 20 °C	Ω/km	12.100	7.410	4.610	3.080	1.830	1.150
AC Resistance @ 90 °C	Ω/km	15.429	9.449	5.878	3.927	2.334	1.467
Reactance X+	Ω/km	0.069	0.065	0.065	0.065	0.065	0.048
Impedance Z+	Ω/km	15.429	9.449	5.879	3.928	2.334	1.467
Capacitance C+	µF/km	0.167	0.188	0.209	0.229	0.253	0.265
Resistance Ro	Ω/km	61.71	37.79	23.513	15.709	9.334	5.866
Reactance Xo	Ω/km	N/A	N/A	N/A	N/A	N/A	N/A
CURRENT RATINGS							
Ground	Amps	30	39	51	63	84	110
Ducts in ground	Amps	24	31	40	50	67	87
Air in Shade	Amps	24	32	42	53	73	95
Air in sunlight	Amps	21	28	37	48	65	84
SHORT CIRCUIT RATING							
Symmetrical (250 °C)	kA (1 sec)	0.2	0.4	0.6	0.9	1.4	2.3
Earth fault (150 °C)	kA (1 sec)	0.0	0.0	0.0	0.0	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

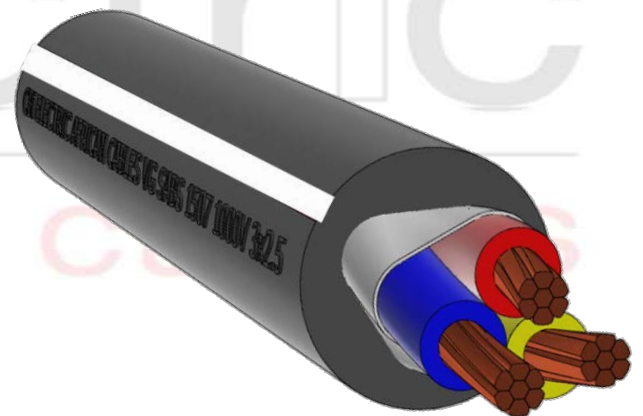
Soil temperature = 25 °C

Air temperature = 30 °C

Depth of burial = 500 mm

Single circuit in isolation

5% tolerance on dimensions



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