

Low Voltage Mains 4 Core PVC Cables

1kV Cu Unarmoured

Description 4 Core Cu PVC FRPVC, 1000 V

F4CC 4nnn ZZ 001 0K0S

Description 4 Core Cu PVC LHFRPVC, 1000 V

F4CC 4nnn ZZ 002 0K0S

Specification SANS 1507

Last updated: December 2025

PHYSICAL	... naaa ...	4025	4035	4050	4070	4095	4120	4150	4185	4240	4300	4400
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300	400
Conductor diameter	mm app	5,7	6,7	7,8	9,4	11,1	12,5	13,7	15,5	17,7	20,0	22,5
Insulation diameter	mm app	8,2	9,2	10,7	12,3	14,4	15,8	17,5	19,7	22,4	25,0	28,0
Layup diameter	mm app	19,2	21,5	24,9	28,6	33,8	37,0	40,7	46,0	52,0	58,1	65,0
Armour diameter	mm app	-	-	-	-	-	-	-	-	-	-	-
Cable diameter	mm app	23,1	25,8	29,2	33,0	38,6	41,8	45,9	51,6	58,1	64,7	72,4
Length of cable on a drum	m	300	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m app	1,3	1,7	2,3	3,1	4,3	5,3	6,5	8,2	10,7	13,3	16,9
Gross mass on drum	kg app	437	569	761	1044	1397	1771	2206	2788	3535	4404	5575
Bending radius	mm min	184	206	233	264	308	334	367	413	465	517	579

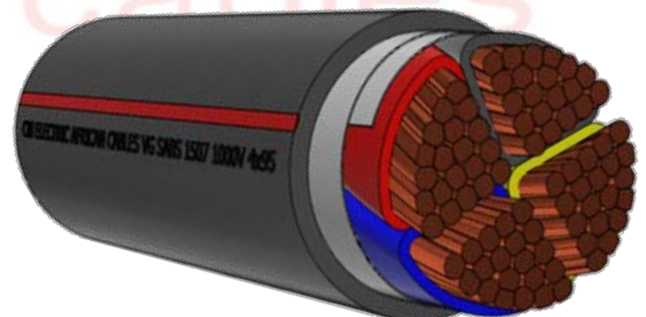
ELECTRICAL												
DC Resistance @ 20 °C	Ω/km	0,727	0,524	0,387	0,268	0,193	0,153	0,124	0,099	0,075	0,060	0,047
AC Resistance @ 70 °C	Ω/km	0,870	0,627	0,464	0,321	0,232	0,184	0,150	0,121	0,093	0,075	0,060
Reactance X+	Ω/km	0,058	0,059	0,056	0,055	0,055	0,055	0,055	0,055	0,056	0,056	0,054
Impedance Z+	Ω/km	0,872	0,630	0,467	0,326	0,238	0,192	0,160	0,133	0,108	0,093	0,081
Capacitance C+	µF/km	0,424	0,468	0,465	0,524	0,533	0,574	0,565	0,573	0,586	0,599	0,614
Resistance Ro	Ω/km	3,48	2,51	1,854	1,286	0,928	0,738	0,600	0,482	0,371	0,301	0,241
Reactance Xo	Ω/km	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

CURRENT RATINGS												
Ground	Amps	123	147	175	216	258	294	330	374	434	491	556
Ducts in ground	Amps	97	117	139	172	207	236	265	302	351	396	450
Air in Shade	Amps	110	135	164	209	257	299	342	397	472	545	630
Air in sunlight	Amps	86	105	127	160	195	226	257	296	350	401	462

SHORT CIRCUIT RATING												
Symmetrical (160 °C)	kA (1 sec)	2,9	4,0	5,8	8,1	10,9	13,8	17,3	21,3	27,6	34,5	46,0
Earth fault (160 °C)	kA (1 sec)	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Three Phase Volt Drop	mV/A/m	1,51	1,09	0,81	0,56	0,41	0,33	0,28	0,23	0,19	0,16	0,14

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 resistance = 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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