

Low Voltage PVC Cables

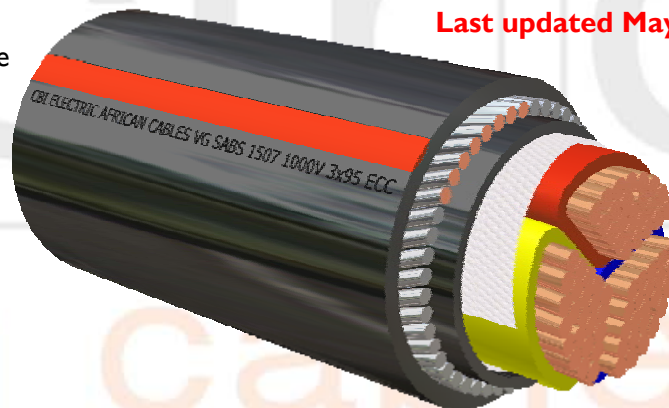
FRPVC F4CC... Primary group code
 FRPVC SWA / ECC FRPVC ...121 Finish code
 LHPVC SWA / ECC LHPVC ...222

Copper 3 Core
 600/1000V
 SANS 1507

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300	3400
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300	400
Conductor diameter	mm app.	5.0	6.0	7.0	8.5	10.0	11.0	12.5	14.0	16.0	18.0	20.0
Insulation diameter	mm app.	7.5	8.5	10.0	11.5	13.0	14.5	16.0	18.0	20.5	22.5	25.5
Bedding diameter	mm app.	18.5	20.5	23.5	26.5	31.0	33.5	37.0	41.5	46.5	51.5	57.5
Armour diameter	mm app.	22.0	24.0	27.0	30.0	35.0	37.5	41.0	46.5	52.0	57.0	62.5
Cable diameter	mm app.	28.5	30.5	33	36.5	41.5	44	47.5	53	58.5	63.5	69
Cable mass	kg/m app.	1.72	2.08	2.61	3.34	4.65	5.54	6.61	8.48	10.58	12.77	15.72
Gross mass (500 m)	kg app.	919	1129	1395	1783	2538	2936	3526	4549	5689	7005	8478
Bending radius	mm min.	285	305	330	365	415	440	475	530	585	635	690
Current rating												
In ground	Amps	115	140	165	200	245	280	310	350	410	460	545
In ducts	Amps	98	119	140	170	208	238	264	298	349	391	458
In air	Amps	110	135	160	205	250	290	335	385	450	510	683
Resistance												
dc @ 20°C	Ω/km max	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.061	0.047
ac @ 70°C	Ω/km max	0.870	0.627	0.464	0.321	0.232	0.185	0.151	0.122	0.095	0.078	0.063
Reactance												
Capacitance	μF/km	1.111	1.273	1.267	1.492	1.527	1.691	1.672	1.689	1.751	1.800	1.870
Impedance	Ω/km	0.873	0.632	0.469	0.329	0.241	0.196	0.164	0.137	0.114	0.099	0.089
Zero Sequence												
Resistance	Ω/km	8.702	7.709	7.254	7.056	4.796	5.192	4.400	3.090	2.942	2.982	3.035
Reactance	Ω/km	0.066	0.065	0.065	0.065	0.064	0.063	0.065	0.063	0.064	0.065	0.065
Short circuit ratings												
Symmetrical	kA (1sec)	2.6	3.6	4.9	7.1	9.8	12.4	15.2	19.1	25.1	31.5	40.2
Earth fault	kA (1sec)	6.0	6.4	7.8	9.5	13.6	16.7	17.5	24.5	28.8	33.3	39.5
(Three Phase) Volt Drop	mV/A/M	1.512	1.095	0.812	0.570	0.417	0.339	0.284	0.237	0.197	0.171	0.154

Last updated May 2006

When ordering please quote: primary + size + finish code
 e.g. F4CC 3025 121



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

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CBI Electric African Cables
 PO Box 172, Vereeniging 1930 • Tel: +27 16 430 6000 • Fax: +27 16 423 6103
 www.cbi-electric.com • afcab@cbi-electric.com

