

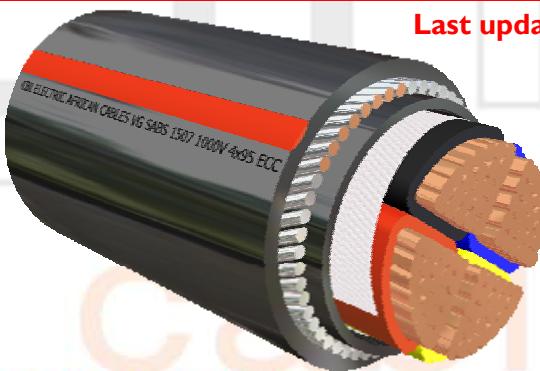
Low Voltage PVC Cables

FRPVC F4CC... Copper 4 Core
 FRPVC SWA / ECC FRPVC ...121 Primary group code 600/1000V
 LHPVC SWA / ECC LHPVC ...222 Finish code SANS 1507

Size code	...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
Number of wires		7	7	14	19	27	34	30	37	50	45	56
Diameter of wires	mm app.	2.22	2.6	2.22	2.2	2.22	2.22	2.6	2.6	2.6	3.08	3.08
Conductor diameter	mm app.	6	7	8	9.5	11	12.5	14	15.5	18	20	20
Insulation diameter	mm app.	8.5	9	11	12.5	14.5	16	17.5	19.5	22.5	25	25
Bedding diameter	mm app.	21.5	24	27	31.5	36	40	44	49	55	61	61
Armour wire diameter	mm app.	1.6	1.6	1.6	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.5
Armour diameter	mm app.	25	27	30.5	35.5	40	45	49	54	60	66	66
PVC Sheath thickness	mm app.	1.7	1.7	1.8	2.0	2.2	2.2	2.4	2.4	2.6	2.8	3.0
Cable diameter	mm app.	28.5	31	34.5	40	45	50	54	59.5	66	72.5	72.5
Cable mass	kg/m app.	2.11	2.59	3.29	4.6	5.97	7.58	8.96	10.8	13.6	16.43	21.07
Gross mass (300 m)	kg app.	690	834	1045	1437	1847	2330	2746	3298	4137	4987	6378
Bending radius	mm min.	285	310	345	400	450	500	540	595	660	725	725
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	0.73	0.52	0.39	0.27	0.19	0.15	0.12	0.1	0.08	0.06	0.06
ac @ 70°C	Ω/km max	0.87	0.63	0.46	0.32	0.23	0.18	0.15	0.12	0.09	0.08	0.08
Reactance	Ω/km	0.08	0.077	0.077	0.072	0.071	0.069	0.07	0.069	0.069	0.069	0.069
Capacitance	μF/km	1.231	1.414	1.411	1.662	1.709	1.892	1.872	1.892	1.962	2.018	2.097
Impedance	Ω/km	0.874	0.632	0.47	0.33	0.243	0.198	0.166	0.14	0.117	0.103	0.092
Zero Sequence												
Resistance	Ω/km	9.688	8.519	7.897	5.616	5.075	3.84	3.331	3.276	3.063	2.954	2.034
Reactance	Ω/km	0.064	0.063	0.065	0.061	0.062	0.059	0.06	0.061	0.062	0.063	0.061
Short circuit ratings												
Symmetrical	kA (1sec)	2.6	3.6	4.9	7.1	9.8	12.3	15.2	19.1	25	31.4	40.2
Earth fault	kA (1sec)	6.6	7.1	8.6	12.4	15	21.3	22.6	26.7	31.3	36.4	49.2
(Three Phase) Volt Drop	mV/A/M	1.514	1.095	0.814	0.572	0.421	0.343	0.288	0.242	0.203	0.178	0.159

Last updated May 2006

When ordering please quote: primary + size + finish code
 e.g. F4CC 4025 121



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