

1kV PVC 4 Core Технические характеристики



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Low Voltage PVC Cables

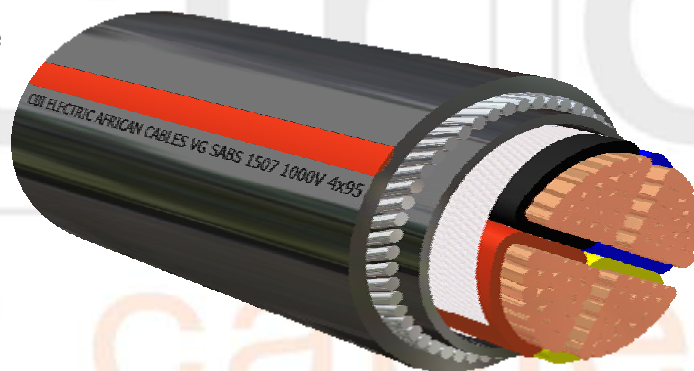
PVC
FR PVC SWA FR PVC (red stripe) F4CC... Primary group code
LH PVC SWA LH PVC (blue stripe) ...111 Finish code
...212

Copper 4 Core
600/1000 V
SANS 1507

Size code	...naaa...	4025	4035	4050	4070	4095	4120	4150	4185	4240	4300
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300
Conductor depth	mm app.	6.0	7.0	8.0	9.5	11.0	12.5	14.0	15.5	18.0	20.0
Insulation depth	mm app.	8.5	9.5	11.0	12.5	14.5	16.0	17.5	20.0	22.5	25.0
Bedding diameter	mm app.	21.5	24.0	27.5	31.5	36.0	40.0	44.0	49.0	55.0	61.0
Armour diameter	mm app.	25.0	27.0	30.5	35.5	40.0	45.0	49.0	54.0	60.0	66.0
Cable diameter	mm app.	28.5	31.0	35	40.0	45.0	50.0	54.0	59.5	66.5	72.5
Cable mass	kg/m app.	2.1	2.6	3.3	4.6	5.9	7.5	8.8	10.1	13.4	16.2
Gross mass (300 m)	kg app.	850	1000	1200	1675	2090	2675	3050	3850	4750	6000
Bending radius	mm min.	285	310	350	400	450	500	540	595	665	725
Current rating											
In ground	Amps	115	140	165	200	245	280	310	350	410	460
In ducts	Amps	95	115	140	170	205	235	265	300	345	385
In air	Amps	110	135	160	205	250	290	335	385	450	510
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	0.060
ac @ 70°C	Ω/km max	0.870	0.627	0.464	0.322	0.232	0.185	0.151	0.121	0.094	0.077
Reactance											
	Ω/km	0.080	0.077	0.077	0.072	0.071	0.069	0.070	0.069	0.069	0.069
Impedance											
	Ω/km	0.874	0.632	0.470	0.330	0.243	0.198	0.166	0.140	0.117	0.103
Capacitance											
	μF/km	1.231	1.414	1.411	1.662	1.709	1.892	1.872	1.892	1.962	2.018
Zero Sequence											
Resistance	Ω/km	7.049	6.284	5.469	3.798	3.265	2.365	2.127	1.930	1.709	1.535
Reactance	Ω/km	0.064	0.063	0.063	0.061	0.062	0.059	0.060	0.061	0.062	0.063
Short circuit ratings											
Symmetrical	kA (1sec)	3.2	4.5	6.0	8.7	12.1	15.2	18.8	23.5	30.9	38.8
Earth fault	kA (1sec)	4.2	4.6	5.2	7.4	8.6	11.8	13.1	14.4	16.1	17.8
(Three Phase) Volt Drop	mV/A/m	1.51	1.09	0.81	0.57	0.42	0.34	0.29	0.24	0.20	0.18

When ordering please quote: primary + size + finish code
e.g. F4CC 4025 111

* Earth fault rating limited by symmetrical fault rating



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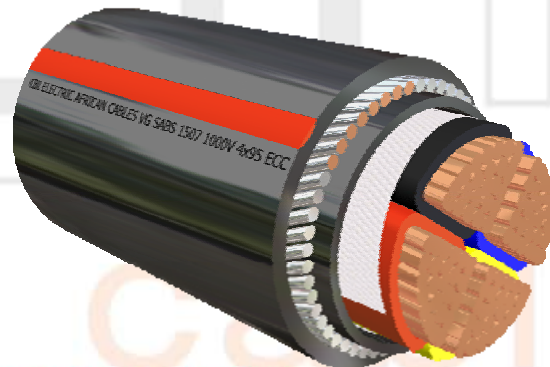
FRPVC
FRPVC SWA / ECC FRPVC
LHPVC SWA / ECC LHPVC

F4CC...
...121 Primary group code
...222 Finish code

Copper 4 Core
600/1000V
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

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



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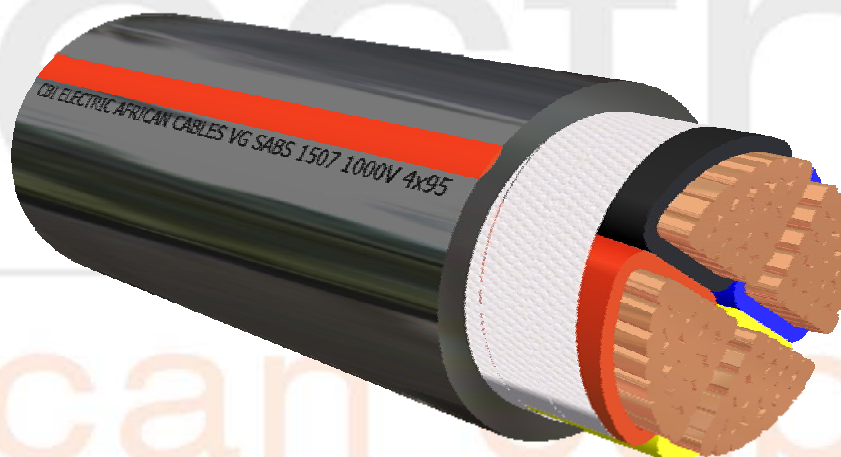
PVC
FR PVC (red stripe)
LH PVC (blue stripe)

F4CC... Primary group code
...001 Finish code
...002

Copper 4 Core
600/1000 V
SANS 1507

Size code	...naaa...	4025	4035	4050	4070	4095	4120	4150	4185	4240	4300
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300
Conductor depth	mm app.	6.0	7.0	8.0	9.5	11.5	12.5	14.0	15.5	18.0	20.0
Insulation depth	mm app.	8.5	9.0	11.0	12.5	14.5	16.0	17.5	20.0	22.5	25.0
Cable diameter	mm app.	23.0	25.5	29.0	32.5	38.0	41.5	46.0	51.0	57.5	64.0
Cable mass	kg/m app.	1.2	1.6	2.2	3.0	4.1	5.1	6.4	7.9	10.3	12.8
Gross mass (300 m)	kg app.	410	555	745	1015	1395	1820	2150	4409	3530	4280
Bending radius	mm min.	184	204	232	260	304	332	368	408	460	512
Current rating											
In ground	Amps	115	140	165	200	245	280	310	350	410	460
In ducts	Amps	95	115	140	170	205	235	265	300	345	385
In air	Amps	110	135	160	205	250	290	335	385	450	510
Resistance											
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(Three Phase) Volt Drop	mV/A/m	1.51	1.09	0.81	0.57	0.42	0.34	0.29	0.24	0.20	0.18

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e.g. F4CC 4025 001



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