

# 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

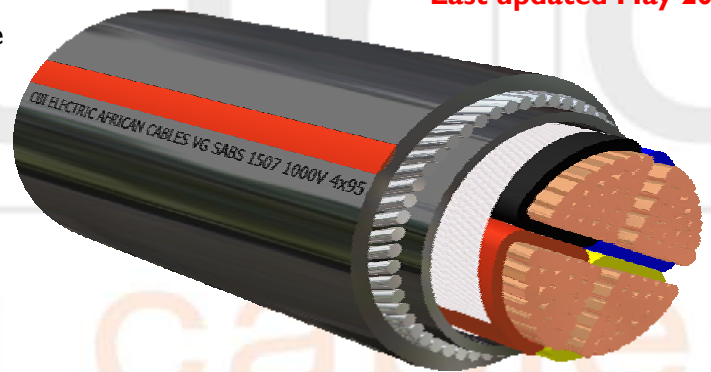
Copper 4 Core  
600/1000 V  
SANS 1507

Size code	...naaa...	4025	4035	4050	4070	4095	4120	4150	4185	4240	4300
Conductor size	mm <sup>2</sup> 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

Last updated May 2006

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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