

# Low Voltage PVC Cables

FRPVC F4CC... Primary group code  
 FRPVC SWA FRPVC (red stripe) ...111 Finish code  
 LHPVC SWA LHPVC (blue stripe) ...212

Copper 3 Core  
 600/1000V  
 SANS 1507

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300	3400
Conductor size	mm <sup>2</sup> 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.	1.53	1.90	2.74	3.53	4.60	5.40	6.46	8.25	10.31	12.45	15.34
Gross mass ( 300 m )	kg app.	516	626	879	1116	1436	1677	1995	2531	3149	3793	4659
Bending radius	mm min.	285	305	330	365	415	440	475	530	585	635	690
<b>Current rating</b>												
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
<b>Resistance</b>												
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
<b>Reactance</b>												
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
<b>Zero Sequence</b>												
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
<b>Short circuit ratings</b>												
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)	4.1	4.4	5.0	5.6	8.1	8.8	9.7	13.8	15.5	16.9	18.8
(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 111



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