

# Low Voltage PVC Bell Cables

PVC  
 FRPVC SWA / ECC FRPVC  
 LHPVC SWA / ECC LHPVC

F4CC...  
 ...121  
 ...222

Primary group code  
 Finish code

Copper 4 Core  
 600/1000V  
 SANS 1507

Size code	...naaa...	4915	4925	4004	4006	4010	4016
Conductor size	mm <sup>2</sup> nom	1.5	2.5	4	6	10	16
Conductor diameter	mm app.	1.7	2.2	2.5	3.0	4.0	5.0
Insulation diameter	mm app.	3.5	4.0	5.0	5.5	6.0	7.0
Bedding diameter	mm app.	9.5	10.5	12.5	14.0	16.0	19.0
Armour diameter	mm app.	12.0	13.0	15.0	16.5	18.5	21.5
Cable diameter	mm app.	15.0	16.0	18.0	19.5	21.5	25.0
Cable mass	kg/m app.	0.5	0.6	0.7	0.9	1.1	1.5
Gross mass ( 500 m )	kg app.	365	390	455	565	715	915
Bending radius	mm min.	150	160	180	195	215	250
<b>Current rating</b>							
In ground	Amps	23	31	40	51	68	88
In ducts	Amps	20	26	34	43	58	75
In air	Amps	20	26	36	45	62	82
<b>Resistance</b>							
dc @ 20°C	Ω/km max	12.10	7.41	4.61	3.08	1.83	1.15
ac @ 70°C	Ω/km max	14.48	8.87	5.52	3.69	2.19	1.38
Zero Sequence Resistance	Ω/km	20.143	15.061	10.529	8.059	6.012	3.573
Zero Sequence Reactance	Ω/km	0.155	0.143	0.135	0.127	0.117	0.119
Reactance	Ω/km	0.107	0.103	0.103	0.097	0.091	0.087
Capacitance	Ω/km	0.315	0.375	0.376	0.440	0.532	0.639
Impedance	Ω/km	14.478	8.867	5.517	3.687	2.192	1.379
<b>Short circuit ratings</b>							
Symmetrical	kA (1sec)	0.19	0.32	0.51	0.76	1.27	2.03
Earth fault	kA (1sec)	1.57	1.74	2.13	2.41	2.74	3.62
(Three Phase) Volt Drop	mV/A/m	25.08	15.36	9.56	6.39	3.80	2.39

Last updated May 2006

When ordering please quote: primary + size + finish code  
 e.g. F4CC 4915 121



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