

# Low Voltage PVC Cables

PVC  
FRPVC SWA / ECC FRPVC  
LHPVC SWA / ECC LHPVC

F4CA... Primary group code  
...121 Finish code  
...222

Aluminium 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	23.0	26.5	31.0	33.5	37.0	42.0	47.0	52.0	57.5
Armour diameter	mm app.	21.5	23.5	26.5	30.0	35.0	37.5	41.0	47.0	52.0	57.0	63.0
Cable diameter	mm app.	25	27	30	33	40	42	46	52	57	63.5	70
Cable mass	kg/m app.	1.23	1.40	1.71	2.07	2.89	3.29	3.87	5.08	6.09	7.14	8.53
Gross mass ( 300 m )	kg app.	425	477	569	677	923	1043	1218	1581	1885	2199	2617
Bending radius	mm min.	250	270	300	330	400	420	460	520	570	635	700
Current rating												
In ground	Amps	87	105	125	155	185	210	240	270	315	355	420
In ducts	Amps	74	89	106	132	157	179	204	230	268	302	357
In air	Amps	78	93	110	145	175	205	235	270	320	365	432
Resistance												
dc @ 20°C	Ω/km max	1.200	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.078
ac @ 70°C	Ω/km max	1.442	1.043	0.771	0.533	0.386	0.305	0.249	0.199	0.153	0.124	0.098
Reactance												
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	1.444	1.046	0.774	0.537	0.391	0.312	0.257	0.209	0.165	0.138	0.116
Zero Sequence												
Resistance	Ω/km	8.050	7.127	6.955	6.397	4.435	4.046	4.607	2.776	2.365	2.309	2.172
Reactance	Ω/km	0.066	0.065	0.067	0.065	0.064	0.063	0.065	0.063	0.064	0.065	0.065
Short circuit ratings												
Symmetrical	kA (1sec)	1.7	2.3	3.1	4.5	6.2	7.9	9.7	12.2	16.0	20.0	25.7
Earth fault	kA (1sec)	4.08*	4.38*	6.02*	7.38*	10.77*	11.24*	15.29*	19.2*	20.67*	24.2	28.25*
(Three Phase)Volt Drop	mV/A/M	2.501	1.812	1.341	0.930	0.677	0.540	0.445	0.362	0.286	0.239	0.201

Last updated May 2006

When ordering please quote: primary + size + finish code  
e.g. F4CA 3025 121

\* Earth fault rating limited by symmetrical fault rating



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

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