

1kV PVC Copper 2 Core Технические характеристики



Архангельск (8182)63-90-72
Астана +7(7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
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Low Voltage PVC Bell Cables

PVC	F4CC... Primary group code	Copper 2 Core
FRPVC SWA FRPVC (red stripe)	...111 Finish code	600/1000V
LHPVC SWA LHPVC (blue stripe)	...212	SANS 1507

Size code	...naaa...	2915	2925	2004	2006	2010	2016	*2025	*2035	*2050
Conductor size	mm ² nom	1.5	2.5	4	6	10	16	25	35	50
Conductor diameter	mm app.	1.7	2.2	2.5	3.0	4.0	5.0	4.0	5.0	5.5
Insulation diameter	mm app.	3.5	4.0	5.0	5.5	6.0	7.0	6.5	7.5	8.5
Bedding diameter	mm app.	8.5	9.0	11.0	12.0	13.5	15.5	15	16.5	20
Armour diameter	mm app.	11.0	12.0	13.5	14.5	16.0	18.0	18.5	19.5	23
Cable diameter	mm app.	14.0	15.0	16.5	17.5	19.5	21.5	21.5	23	26.5
Cable mass	kg/km app.	0.40	0.45	0.57	0.70	0.83	1.03	1.22	1.46	1.89
Gross mass (500 m)	kg app.	256	293	375	433	557	698	671	788	1007
Bending radius	mm min.	140	150	160	180	190	210	215	230	265
Current rating										
In ground	Amps	23	31	40	51	68	88	140	170	200
In ducts	Amps	20	26	34	43	58	75	115	140	165
In air	Amps	20	26	36	45	62	82	130	155	190
Resistance										
dc @ 20°C	Ω/km max	12.10	7.41	4.61	3.08	1.83	1.15	0.73	0.52	0.39
ac @ 70°C	Ω/km max	14.48	8.87	5.52	3.69	2.19	1.38	0.87	0.63	0.46
Reactance	Ω/km	0.107	0.100	0.101	0.096	0.091	0.087	0.065	0.061	0.061
Capacitance	Ω/km	0.334	0.319	0.386	0.450	0.542	0.649	0.918	1.048	1.046
Impedance	Ω/km	14.478	8.867	5.517	3.687	2.192	1.379	0.873	0.631	0.468
Zero Sequence										
Resistance	Ω/km	26.362	20.483	15.816	13.539	11.058	9.195	7.430	6.795	5.641
Reactance	Ω/km	0.175	0.160	0.152	0.141	0.129	0.119	0.069	0.068	0.071
Short circuit ratings										
Symmetrical	kA (1sec)	0.193	0.315	0.507	0.757	1.274	2.027	3.21	4.45	6.02
Earth fault	kA (1sec)	1.365	1.489	1.738	1.862	2.110	2.420	3.3	3.5	4.2
(Single Phase) Volt Drop	mV/A/m	28.96	17.73	11.03	7.37	4.38	2.76	1.75	1.26	0.94

*D Shaped Conductors.

When ordering please quote: primary + size + finish code

e.g. F4CC 2925 111



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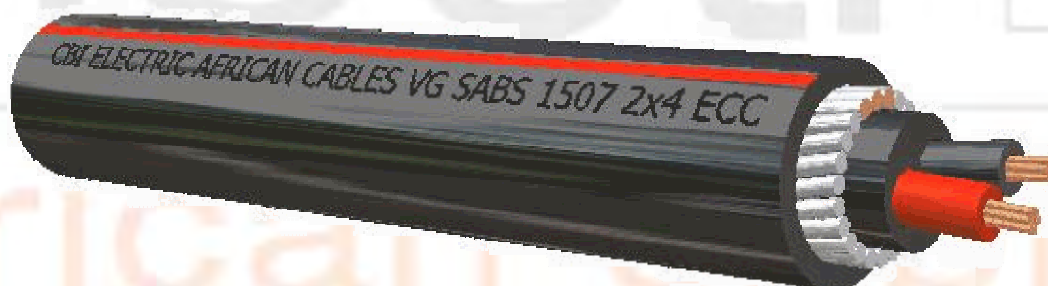
PVC
FRPVC SWA/ECC FRPVC (red stripe)
LHPVC SWA/ECC LHPVC (blue stripe)

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

Copper 2 Core
600/1000V
SANS 1507

Size code	...naaa...	2915	2925	2004	2006	2010	2016
Conductor size	mm ² 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.	8.5	9.0	11.0	12.0	13.5	15.5
Armour diameter	mm app.	11.0	12.0	13.5	14.5	16.0	18.0
Cable diameter	mm app.	14.0	15.0	16.5	17.5	19.5	21.5
Cable mass	kg/km app.	0.40	0.45	0.57	0.70	0.83	1.03
Gross mass (500 m)	kg app.	256	293	375	433	557	698
Bending radius	mm min.	140	150	160	180	190	210
Current rating							
In ground	Amps	23	31	40	51	68	88
In air	Amps	20	26	36	45	62	82
Resistance							
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
Reactance	Ω/km	0.107	0.100	0.101	0.096	0.091	0.087
Capacitance	μF/km	0.334	0.319	0.386	0.450	0.542	0.649
Impedance	Ω/km	14.478	8.867	5.517	3.687	2.192	1.379
Zero Sequence							
Resistance	Ω/km	20.814	15.665	11.012	8.488	6.376	4.225
Reactance	Ω/km	0.175	0.160	0.152	0.141	0.129	0.119
Short circuit ratings							
Symmetrical	kA (1sec)	0.193	0.310	0.507	0.757	1.274	2.027
Earth fault	kA (1sec)	1.722	1.855	2.249	2.509	2.903	3.745
(Single Phase) Volt Drop	mV/A/m	28.96	17.73	11.03	7.37	4.38	2.76

When ordering please quote: primary + size + finish code
e.g. F4CC 2925 121



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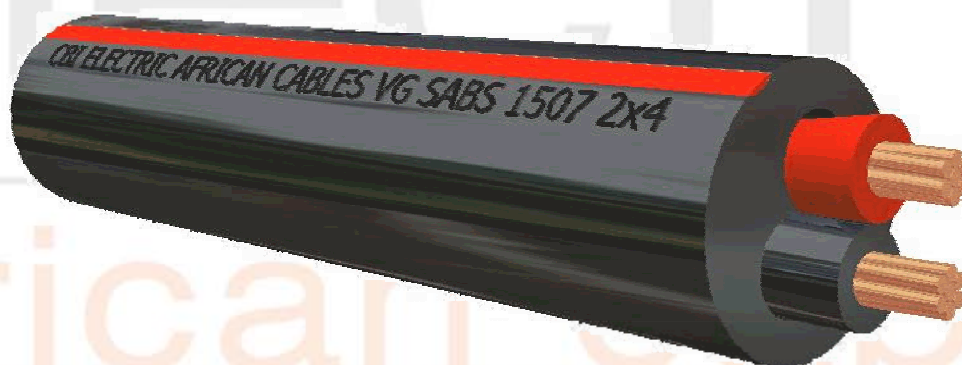


PVC	F4CC...	Primary group code	Copper 2 Core
FRPVC (red stripe)	...001	Finish code	600/1000V
LHPVC (blue stripe)	...002		SANS 1507

Size code	...naaa...	2915	2925	2004	2006	2010	2016
Conductor size	mm ² nom	1.5	2.5	4	6	10	16
Conductor diameter	mm app.	1.6	2.0	2.5	3.0	4.0	5.0
Insulation diameter	mm app.	3.2	3.7	4.5	5.0	6.0	7.0
Cable diameter	mm app.	9.5	10.5	12.5	14	15.5	17.5
Cable mass	kg/m app.	0.13	0.16	0.23	0.30	0.42	0.58
Gross mass (500 m)	kg app.	92	109	155	192	267	349
Bending radius	mm min.	95	105	125	140	155	175
Current rating							
In air	Amps	23	31	41	53	72	96
In ducts	Amps	20	26	34	43	58	75
Resistance							
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
Reactance							
Capacitance	μF/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
Short circuit ratings							
Symmetrical	kA (1sec)	0.2	0.3	0.5	0.8	1.3	2.0
(Single Phase) Volt Drop	mV/A/m	28.96	17.73	11.03	7.37	4.38	2.76

Last updated May 2006

When ordering please quote: primary + size + finish code
e.g. F4CC 2925 001



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Единый адрес для всех регионов: ccr@nt-rt.ru || www.cbi-electric.nt-rt.ru