

1kV FR PVC Copper 1 Core Технические характеристики



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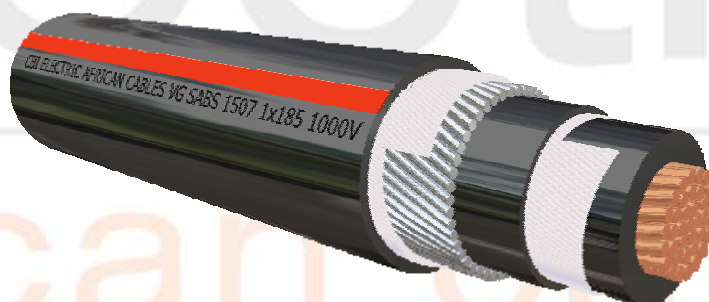
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PVC F4CC... Primary group code
 FRPVC AWA FRPVC (red stripe) ...141 Finish code
 LHPVC AWA LHPVC (blue stripe) ...242

Copper I Core
 600/1000V
 SANS 1507

Size code	...naaa...	1400	1500	1630	1800	1999
Conductor size	mm ² nom	400	500	630	800	1000
Conductor diameter	mm app.	24.0	27.5	30.5	34.5	39.0
Insulation diameter	mm app.	29.5	33.5	36.5	40.5	45.5
Bedding diameter	mm app.	32.5	36.0	40.0	44.0	48.5
Armour diameter	mm app.	36.5	40.0	45.0	49.0	53.5
Cable diameter	mm app.	41.5	46.0	50.0	54.5	60.0
Cable mass	kg/m app.	5.4	6.6	8.5	10.1	12.6
Gross mass (500 m)	kg app.	2560	3215	4140	4990	6090
Bending radius	mm min.	415	460	500	540	600
Current rating	(trefoil)					
In ground	Amps	540	595	650	680	720
In duct	Amps	440	470	510	530	560
In air	Amps	657	730	809	880	950
Resistance						
dc @ 20°C	Ω/km max	0.0470	0.0370	0.0280	0.0220	0.0180
ac @ 70°C	Ω/km max	0.0620	0.0510	0.0420	0.0280	0.0230
Reactance	Ω/km	0.073	0.073	0.072	0.071	0.069
Capacitance	μF/km	2.233	2.350	2.585	2.880	3.032
Impedance	Ω/km	0.096	0.089	0.083	0.076	0.073
Zero Sequence						
Resistance	Ω/km	0.407	0.326	0.258	0.203	0.163
Reactance	Ω/km	0.288	0.281	0.270	0.259	0.254
Short circuit ratings						
Symmetrical	kA (1sec)	49.6	63.7	82.4	105.5	132.5
Earth fault	kA (1sec)	15.52	17.1	23.8	25.74	28.7
(Three Phase) Volt Drop	mV/A/m	0.17	0.15	0.14	0.13	0.13
(Single Phase) Volt Drop	mV/A/m	0.19	0.18	0.17	0.15	0.15

When ordering please quote: primary + size + finish code
 e.g. F4CC 1400 141



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PVC F4CC... Primary group code
 FR PVC (red stripe) ...001 Finish code
 LH PVC (blue stripe) ...002

Copper I Core
 600/1000 V
 SANS 1507

Size code	...naaa...	1400	1500	1630	1800	1999
Conductor size	mm ² nom	400	500	630	800	1000
Conductor diameter	mm app.	24.0	27.5	30.5	34.5	39.0
Insulation diameter	mm app.	29.5	33.5	36.0	40.0	45.0
Cable diameter	mm app.	33.5	38.0	41.0	44.5	50.5
Cable mass	kg/m app.	4.0	5.0	6.4	8.1	10.1
Gross mass (500 m)	kg app.	2160	2665	3490	4340	5340
Bending radius	mm min.	268	304	328	356	404
Current rating	(trefoil)					
In ground	Amps	540	610	687	745	822
In ducts	Amps	440	482	539	581	639
In air	Amps	657	749	855	971	1079
Resistance						
dc @ 20°C	Ω/km max	0.047	0.037	0.028	0.022	0.018
ac @ 70°C	Ω/km max	0.062	0.051	0.042	0.028	0.023
Reactance	Ω/km	0.073	0.073	0.072	0.071	0.069
Capacitance	μF/km	2.233	2.350	2.585	2.880	3.032
Impedance	Ω/km	0.096	0.089	0.083	0.076	0.074
Short circuit ratings						
Symmetrical	kA (1sec)	35.2	45.3	58.5	75.0	94.2
(Three Phase) Volt Drop	mV/A/m	0.17	0.15	0.14	0.13	0.13
(Single Phase) Volt Drop	mV/A/m	0.19	0.18	0.17	0.15	0.15

When ordering please quote: primary + size + finish code
 e.g. F4CC 1400 001



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PVC
FRPVC AWA FRPVC (red stripe)
LHPVC AWA LHPVC (blue stripe)

F4CC... Primary group code
...141 Finish code
...242

Copper I Core
600/1000V
SANS 1507

Size code	...naaa...	1050	1070	1095	1120	1150	1185	1240	1300
Conductor size	mm ² nom	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	8.5	10.0	12.0	13.5	15.0	16.5	19.0	21.5
Insulation diameter	mm app.	11.5	13.0	15.0	16.5	18.5	21.0	23.5	26.5
Bedding diameter	mm app.	13.0	14.5	18.0	19.0	21.0	23.0	26.0	29.0
Armour diameter	mm app.	16.0	18.0	21.0	22.5	24.0	26.5	29.0	33.0
Cable diameter	mm app.	20.5	22.0	25.0	26.5	28.5	31.0	33.5	38.0
Cable mass	kg/m app.	1.0	1.3	1.7	2.0	2.3	2.8	3.4	4.4
Gross mass (500 m)	kg app.	514	642	851	987	1163	1393	1712	2210
Bending radius	mm min.	205	220	250	265	285	310	335	380
Current rating	(trefoil)								
In ground	Amps	203	248	297	337	376	423	485	542
In duct	Amps	171	208	249	283	316	355	407	455
In air	Amps	181	231	280	324	373	425	501	567
Resistance									
dc @ 20°C	Ω/km max	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060
ac @ 70°C	Ω/km max	0.464	0.322	0.232	0.185	0.151	0.121	0.094	0.076
Reactance	Ω/km	0.084	0.078	0.077	0.075	0.075	0.075	0.075	0.074
Capacitance	μF/km	1.528	1.793	1.846	2.030	2.003	1.990	2.040	2.102
Impedance	Ω/km	0.471	0.331	0.245	0.200	0.168	0.143	0.120	0.107
Zero Sequence									
Resistance	Ω/km	3.255	2.325	1.713	1.356	1.085	0.880	0.678	0.543
Reactance	Ω/km	0.388	0.333	0.320	0.305	0.307	0.305	0.301	0.297
Short circuit ratings									
Symmetrical	kA (1sec)	6.0	8.7	12.1	15.2	18.8	23.5	30.9	38.8
Earth fault	kA (1sec)	4.5	5.1	6.1	6.5	7.2	8.0	8.7	12.4
(Three Phase) Volt Drop	mV/A/m	0.82	0.57	0.42	0.35	0.29	0.25	0.21	0.19
(Single Phase) Volt Drop	mV/A/m	0.94	0.66	0.49	0.40	0.34	0.29	0.24	0.21

When ordering please quote: primary + size + finish code
e.g. F4CC 1050 141



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PVC
FR PVC (red stripe)
LH PVC (blue stripe)

F4CC...
...001
...002

Primary group code
Finish code

Copper I Core
600/1000 V
SANS 1507

Size code	...naaa...	1025	1035	1050	1070	1095	1120	1150	1185	1240	1300
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	6.0	7.0	8.5	10.0	12.0	13.5	15.0	16.5	19.0	21.5
Insulation diameter	mm app.	8.5	10.0	11.0	13.0	15.0	16.5	18.5	20.5	23.5	26.0
Cable diameter	mm app.	12.0	13.0	15.0	17.0	19.0	20.0	22.0	25.0	27.5	30.5
Cable mass	kg/m app.	0.4	0.5	0.6	0.8	1.1	1.4	1.6	2.0	2.6	3.2
Gross mass (500 m)	kg app.	200	260	355	475	625	755	915	1125	1440	1795
Bending radius	mm min.	96	104	120	136	152	160	176	200	220	244
Current rating	(trefoil)										
In ground	Amps	119	143	169	210	251	285	320	361	416	465
In ducts	Amps	96	116	138	171	205	234	263	298	344	385
In air	Amps	109	133	162	205	252	291	334	383	451	514
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	0.076
Reactance	Ω/km	0.086	0.840	0.084	0.078	0.077	0.075	0.075	0.075	0.075	0.074
Capacitance	μF/km	1.348	1.530	1.528	1.793	1.846	2.030	2.003	1.990	2.040	2.102
Impedance	Ω/km	0.874	0.633	0.471	0.331	0.245	0.2	0.168	0.143	0.12	0.107
Short circuit ratings											
Symmetrical	kA (1sec)	3.21	4.45	6.02	8.70	12.08	15.24	18.80	23.52	30.92	38.79
(Three Phase) Volt Drop	mV/A/m	1.51	1.10	0.82	0.57	0.42	0.35	0.29	0.25	0.21	0.19

When ordering please quote: primary + size + finish code
e.g. F4CC 1120 001



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