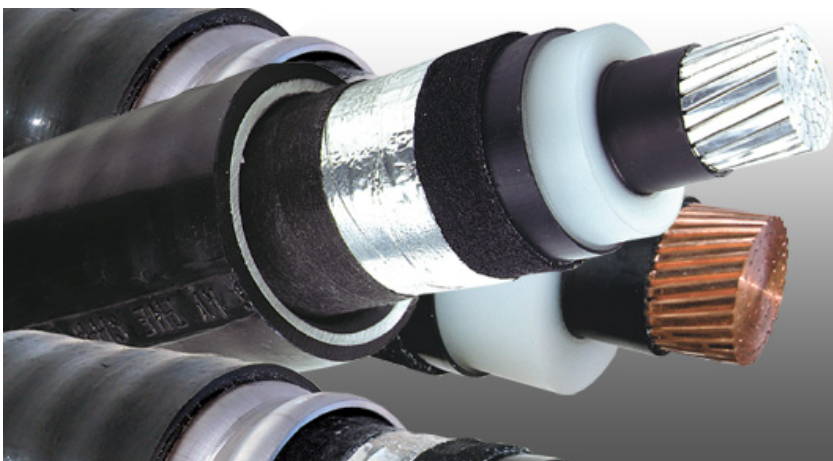


КАТАЛОГ Продукция СВІ-ELECTRIC African Cables



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PVC	F4CA...	Primary group code	Aluminium I Core
FRPVC (red stripe)	...001	Finish code	600/1000V
LHPVC (blue stripe)	...002		SANS 1507

Size code	...naaa...	1050	1070	4095	4120	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	14.0	14.5	16.0	18.5	20.5
Insulation diameter	mm app.	11.5	13.0	15.0	17.0	18.0	20.0	23.0	26.0
Cable diameter	mm app.	15	16.5	19	21	22	24	27	30
Cable mass	kg/m app.	0.3	0.4	0.5	0.6	0.7	0.8	1.1	1.3
Gross mass (500 m)	kg app.	180	219	307	355	409	485	640	760
Bending radius	mm min.	230	260	300	340	360	400	460	520
Current rating	(in trefoil)								
In ground	Amps	139	169	204	232	259	294	340	382
In air	Amps	125	165	200	230	265	310	380	435
Resistance									
dc @ 20°C	Ω/km max	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100
ac @ 70°C	Ω/km max	0.771	0.533	0.385	0.305	0.249	0.199	0.152	0.123
Reactance	Ω/km	0.084	0.076	0.076	0.077	0.075	0.073	0.074	0.073
Impedance	mH/km	0.775	0.538	0.393	0.314	0.260	0.212	0.169	0.143
Short circuit ratings									
Symmetrical	kA (1sec)	3.9	5.6	7.7	9.7	12.0	15.0	19.7	24.7
(Three Phase) Volt Drop	mV/A/m	1.34	0.93	0.68	0.54	0.45	0.37	0.29	0.25
(Single Phase) Volt Drop	mV/A/m	1.55	1.08	0.79	0.63	0.52	0.42	0.34	0.29

When ordering please quote: primary + size + finish code
 e.g. F4CA 1150 001



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

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PVC	F4CA...	Primary group code	Aluminium 1 Core
FRPVC (red stripe)	...001	Finish code	600/1000V
LHPVC (blue stripe)	...002		SANS 1507

Size code	...naaa...	1400	1500	1630	1800	1999
Conductor size	mm ² nom	400	500	630	800	1000
Conductor diameter	mm app.	23.5	26.5	30.0	34.5	39.0
Insulation diameter	mm app.	28.5	32.5	35.5	40.0	45.0
Cable diameter	mm app.	32.5	37.0	40.0	44.5	50.5
Cable mass	kg/m app.	1.6	2.0	2.5	3.2	4.0
Gross mass (500 m)	kg app.	960	1165	1540	2040	2290
Bending radius	mm min.	260	296	320	356	404
Current rating	(trefoil)					
In ground	Amps	437	498	559	634	709
In ducts	Amps	377	421	461	511	556
In air	Amps	507	590	680	776	907
Resistance						
dc @ 20°C	Ω/km max	0.078	0.061	0.047	0.037	0.029
ac @ 70°C	Ω/km max	0.097	0.077	0.062	0.045	0.036
Reactance	Ω/km	0.072	0.071	0.071	0.071	0.070
Impedance	Ω/km	0.121	0.105	0.094	0.084	0.079
Short circuit ratings						
Symmetrical	kA (1sec)	22.5	29.0	37.4	47.8	60.2
(Three Phase) Volt Drop	mV/A/m	0.21	0.18	0.16	0.15	0.14
(Single Phase) Volt Drop	mV/A/m	0.24	0.21	0.19	0.17	0.16

When ordering please quote: primary + size + finish code
 e.g. F4CA 1120 001



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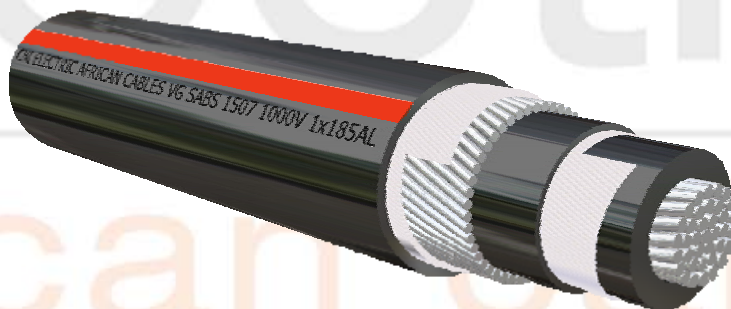
PVC
FRPVC AWA FRPVC (red stripe)
LHPVC AWA LHPVC (blue stripe)

F4CA... Primary group code
...141 Finish code
...242

Aluminium 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	14.0	14.5	16.0	18.5	20.5
Insulation diameter	mm app.	11.5	13.0	15.0	17.0	18.0	20.0	23.0	25.5
Bedding diameter	mm app.	13.0	14.5	17.0	19.5	20.5	22.5	25.5	28.5
Armour diameter	mm app.	16.0	17.0	19.0	22.5	24.0	26.0	28.5	32.5
Cable diameter	mm app.	20.0	21.5	24.0	27.0	28	30	33.0	37.5
Cable mass	kg/m app.	0.8	0.9	1.1	1.3	1.5	1.7	2.0	2.6
Gross mass (500 m)	kg app.	450	500	600	675	775	875	1100	1475
Bending radius	mm min.	400	430	480	540	560	600	660	750
Current rating	(trefoil)								
In ground	Amps	129	158	192	219	245	278	324	366
In ducts	Amps	104	130	157	179	201	229	268	304
In air	Amps	120	151	188	218	248	288	344	396
Resistance									
dc @ 20°C	Ω/km max	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100
ac @ 70°C	Ω/km max	0.771	0.533	0.385	0.305	0.249	0.199	0.152	0.123
Reactance	Ω/km	0.084	0.076	0.076	0.077	0.075	0.073	0.074	0.073
Impedance	Ω/km	0.775	0.538	0.393	0.314	0.260	0.212	0.169	0.143
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	0.318	0.312	0.318	0.298	0.285	0.290	0.279
Short circuit ratings									
Symmetrical	kA (1sec)	3.85	5.56	7.70	9.74	11.96	15.03	19.72	24.65
Earth fault	kA (1sec)	3.53	3.97	4.52	6.87	7.23	7.77	8.86	12.42
(Three Phase)Volt Drop	mV/A/m	1.342	0.932	0.681	0.544	0.450	0.367	0.293	0.248

When ordering please quote: primary + size + finish code
e.g. F4CA 1120 141



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PVC	F4CA...	Primary group code	Aluminium I Core
FR PVC AWA FR PVC (red stripe)	...141	Finish code	600/1000 V
LH PVC AWA LH PVC (blue stripe)	...242		SANS 1507

Size code	...naaa...	1400	1500	1630	1800	1999
Conductor size	mm ² nom	400	500	630	800	1000
Conductor diameter	mm app.	23.5	26.5	30.0	34.5	39.0
Insulation diameter	mm app.	28.5	32.5	35.5	40.0	45.0
Bedding diameter	mm app.	31.5	35.0	39.0	43.5	48.5
Armour diameter	mm app.	35.5	39.0	44.0	48.5	53.5
Cable diameter	mm app.	41.0	44.5	49.5	54.0	59.5
Cable mass	kg/m app.	2.5	3.0	3.8	4.5	5.4
Gross mass (500 m)	kg app.	1410	1670	2200	2550	3000
Bending radius	mm min.	410	445	495	540	595
Current rating	(trefoil)					
In ground	Amps	428	479	528	584	632
In ducts	Amps	370	405	435	471	495
In air	Amps	497	568	642	715	808
Resistance						
dc @ 20°C	Ω/km max	0.078	0.061	0.047	0.037	0.029
ac @ 70°C	Ω/km max	0.097	0.077	0.062	0.045	0.036
Reactance	Ω/km	0.072	0.071	0.071	0.071	0.070
Impedance	Ω/km	0.121	0.105	0.094	0.084	0.079
Zero Sequence						
Resistance	Ω/km	0.407	0.326	0.258	0.203	0.163
Reactance	Ω/km	0.269	0.262	0.261	0.259	0.254
Short circuit ratings						
Symmetrical	kA (1sec)	22.5	29.0	37.4	47.8	60.2
Earth fault	kA (1sec)	13.5	15.2	21.1	23.3	26.0
(Three Phase) Volt Drop	mV/A/M	0.21	0.18	0.16	0.15	0.14
(Single Phase) Volt Drop	mV/A/M	0.24	0.21	0.19	0.17	0.16

When ordering please quote: primary + size + finish code
 e.g. F4CA 1400 141



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

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PVC
FRPVC SWA FRPVC
LHPVC SWA LHPVC

F4CA... Primary group code
...111 Finish code
...212

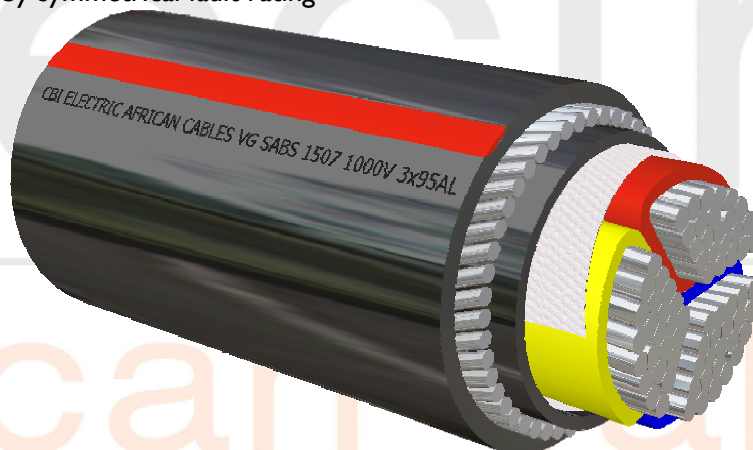
Aluminium 3 Core
600/1000V
SANS 1507

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300	3400
Conductor size	mm ² 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	Ω/km	0.075	0.072	0.072	0.066	0.065	0.063	0.063	0.063	0.063	0.062	0.062
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)	3.1	3.4	6.4	7.3	8.4	8.9	9.8	13.9	15.5	16.9	18.9
(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

When ordering please quote: primary + size + finish code

e.g. F4CA 3025 111

* Earth fault rating limited by symmetrical fault rating



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Low Voltage PVC Cables

PVC
FRPVC SWA / ECC FRPVC
LHPVC SWA / ECC LHPVC

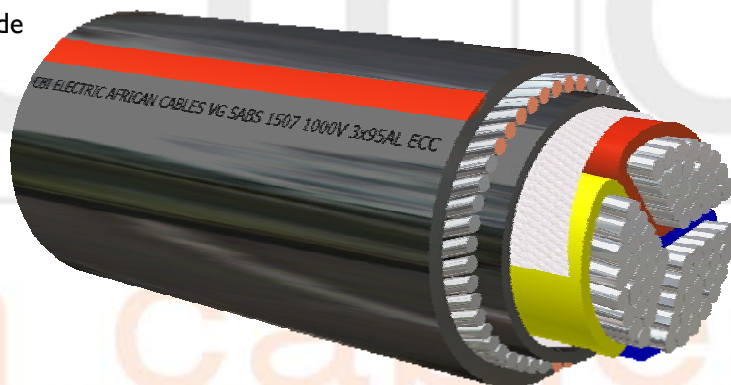
F4CA... Primary group code
...121 Finish code
...222

Aluminium 3 Core
600/1000V
SANS 1507

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300	3400
Conductor size	mm ² 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

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

* Earth fault rating limited by symmetrical fault rating



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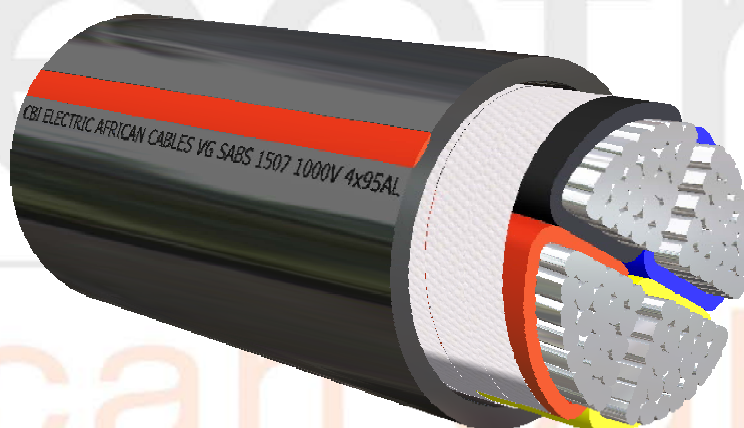
PVC
 FR PVC (red stripe)
 LH PVC (blue stripe)

F4CA... Primary group code
 ...001 Finish code
 ...002

Aluminium 4 Core
 600/1000 V
 SANS 1507

Size code	...naaa...	4025	4035	4050	4070	4095	4120	4150	4185	4240	4300
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300
Conductor depth	mm app.	6.0	7.0	8.0	9.5	11.0	12.5	14.0	15.5	18.0	20.0
Insulation depth	mm app.	8.5	9.5	11.0	12.5	14.5	16.0	17.5	20.0	22.5	25.0
Cable diameter	mm app.	23.0	25.5	29.0	32.5	38.0	41.5	46.0	51.0	57.5	64.0
Cable mass	kg/m app.	0.7	0.8	1.1	1.4	1.9	2.3	2.8	3.4	4.4	5.4
Gross mass (300 m)	kg app.	265	315	381	485	755	905	1090	1280	1800	2215
Bending radius	mm min.	184	204	232	260	304	332	368	408	460	512
Current rating											
In ground	Amps	87	105	125	155	185	210	240	270	315	355
In ducts	Amps	73	87	105	130	155	180	200	230	270	305
In air	Amps	80	98	120	150	190	220	250	290	345	395
Resistance											
dc @ 20°C	Ω/km max	1.200	0.868	0.641	0.443	0.320	0.253	0.206	1.640	0.125	0.100
ac @ 70°C	Ω/km max	1.442	1.043	0.771	0.533	0.385	0.305	0.249	0.199	0.152	0.123
Reactance											
Impedance	Ω/km	0.080	0.077	0.077	0.072	0.071	0.069	0.069	0.069	0.069	0.069
Short circuit ratings											
Symmetrical	kA (1sec)	2.0	2.8	3.8	5.6	7.7	9.7	12.0	15.0	19.7	24.6
(Three Phase) Volt Drop	mV/A/m	2.50	1.81	1.34	0.93	0.68	0.54	0.45	0.37	0.29	0.24

When ordering please quote: primary + size + finish code
 e.g. F4CA 4025 001



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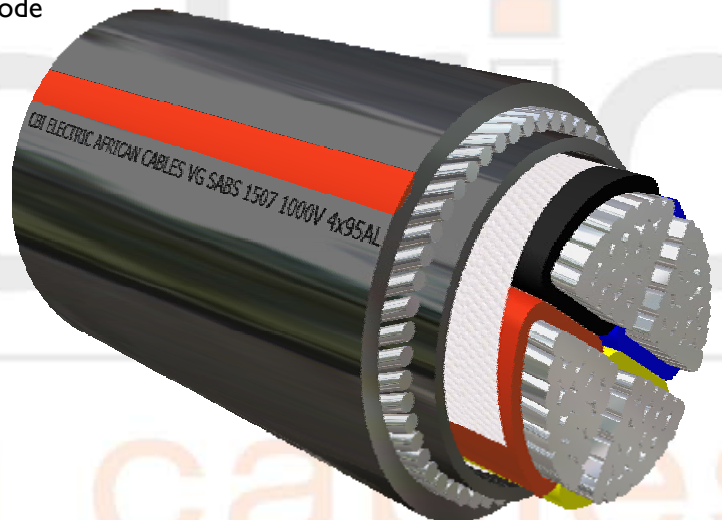
PVC
FR PVC SWA FR PVC (red stripe) F4CA... Primary group code
LH PVC SWA LH PVC (blue stripe) ...111 Finish code
...212

Aluminium 4 Core
600/1000 V
SANS 1507

Size code	...naaa...	4025	4035	4050	4070	4095	4120	4150	4185	4240	4300
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	6.0	7.0	8.0	9.5	11.0	12.5	14.0	15.5	18.0	20.0
Insulation diameter	mm app.	8.0	9.5	11.0	12.5	14.5	16.0	17.5	19.5	22.5	25.0
Bedding diameter	mm app.	21.5	24.0	27.0	31.5	36.0	40.0	44.0	49.0	55.0	61.0
Armour diameter	mm app.	25.0	27.0	30.5	35.5	40.0	45.0	49.0	54.0	60.0	66.0
Cable diameter	mm app.	28.5	31.0	34.5	40.0	45.0	50.0	54.0	59.5	66.5	72.5
Cable mass	kg/m app.	1.5	1.8	2.2	3.0	3.6	4.7	5.4	6.3	7.6	8.9
Gross mass (300 m)	kg app.	535	635	780	1055	1235	1500	1930	2210	2820	3325
Bending radius	mm min.	285	310	345	400	450	500	540	595	665	725
Current rating											
In ground	Amps	87	105	125	155	185	210	240	270	315	355
In ducts	Amps	73	87	105	130	155	180	200	230	270	305
In air	Amps	80	98	120	150	190	220	250	290	345	395
Resistance											
dc @ 20°C	Ω/km max	1.200	0.868	0.641	0.443	0.320	0.253	0.206	1.640	0.125	0.100
ac @ 70°C	Ω/km max	1.442	1.043	0.771	0.533	0.385	0.305	0.249	0.199	0.152	0.123
Reactance											
Impedance	Ω/km	0.080	0.077	0.077	0.072	0.071	0.069	0.070	0.069	0.069	0.069
Short circuit ratings											
Symmetrical	kA (1sec)	2.0	2.8	3.8	5.6	7.7	9.7	12.0	15.0	19.7	24.6
Earth fault	kA (1sec)	3.6*	3.9*	4.5*	6.5*	7.5*	10.4*	11.5*	12.5*	14.2	15.7
(Three Phase) Volt Drop	mV/A/m	2.50	1.81	1.34	0.93	0.68	0.54	0.45	0.37	0.29	0.24

When ordering please quote: primary + size + finish code
e.g. F4CA 4025 111

* Earth fault rating limited by symmetrical fault rating



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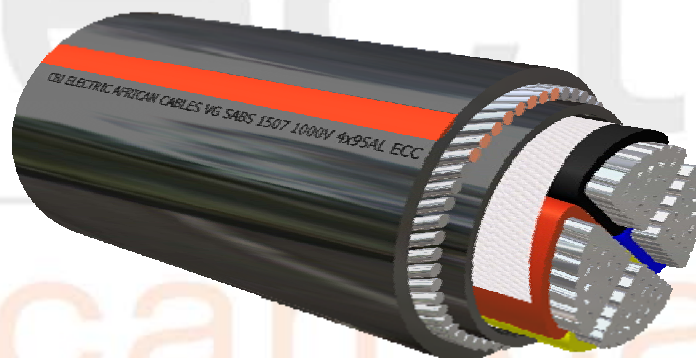
PVC F4CA... Primary group code
 FR PVC SWA/ECC FR PVC (red stripe) ...121 Finish code
 LH PVC SWA/ECC LH PVC (blue stripe) ...222

Aluminium 4 Core
 600/1000 V
 SANS 1507

Size code	...naaa...	4025	4035	4050	4070	4095	4120	4150	4185	4240	4300
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	6.0	7.0	8.0	9.5	11.0	12.5	14.0	15.5	18.0	20.0
Insulation diameter	mm app.	8.0	9.5	11.0	12.5	14.5	16.0	17.5	19.5	22.5	25.0
Bedding diameter	mm app.	21.5	24.0	27.0	31.5	36.0	40.0	44.0	49.0	55.0	61.0
Armour diameter	mm app.	25.0	27.0	30.5	35.5	40.0	45.0	49.0	54.0	60.0	66.0
Cable diameter	mm app.	28.5	31.0	34.5	40.0	45.0	50.0	54.0	59.5	66.5	72.5
Cable mass	kg/m app.	1.5	1.8	2.2	3.0	3.6	4.7	5.4	6.3	7.6	8.9
Gross mass (300 m)	kg app.	535	635	780	1055	1235	1500	1930	2210	2820	3325
Bending radius	mm min.	285	310	345	400	450	500	540	595	665	725
Current rating											
In ground	Amps	87	105	125	155	185	210	240	270	315	355
In ducts	Amps	73	87	105	130	155	180	200	230	270	305
In air	Amps	80	98	120	150	190	220	250	290	345	395
Resistance											
dc @ 20°C	Ω/km max	1.200	0.868	0.641	0.443	0.320	0.253	0.206	1.640	0.125	0.100
ac @ 70°C	Ω/km max	1.442	1.043	0.771	0.533	0.385	0.305	0.249	0.199	0.152	0.123
Reactance											
Impedance	Ω/km	0.080	0.077	0.077	0.072	0.071	0.069	0.070	0.069	0.069	0.069
Short circuit ratings											
Symmetrical	kA (1sec)	2.0	2.8	3.8	5.6	7.7	9.7	12.0	15.0	19.7	24.6
Earth fault	kA (1sec)	4.3*	4.7*	6.5*	9.7*	11.6*	12.2*	19.2*	20.7*	22.2*	26.2*
(Three Phase) Volt Drop	mV/A/m	2.50	1.81	1.34	0.93	0.68	0.54	0.45	0.37	0.29	0.24

When ordering please quote: primary + size + finish code
 e.g. F4CA 4025 121

* Earth fault rating limited by symmetrical fault rating



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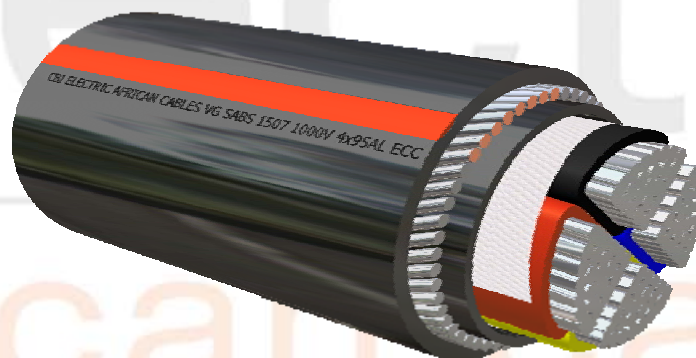
PVC F4CA... Primary group code
 FR PVC SWA/ECC FR PVC (red stripe) ...121 Finish code
 LH PVC SWA/ECC LH PVC (blue stripe) ...222

Aluminium 4 Core
 600/1000 V
 SANS 1507

Size code	...naaa...	4025	4035	4050	4070	4095	4120	4150	4185	4240	4300
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	6.0	7.0	8.0	9.5	11.0	12.5	14.0	15.5	18.0	20.0
Insulation diameter	mm app.	8.0	9.5	11.0	12.5	14.5	16.0	17.5	19.5	22.5	25.0
Bedding diameter	mm app.	21.5	24.0	27.0	31.5	36.0	40.0	44.0	49.0	55.0	61.0
Armour diameter	mm app.	25.0	27.0	30.5	35.5	40.0	45.0	49.0	54.0	60.0	66.0
Cable diameter	mm app.	28.5	31.0	34.5	40.0	45.0	50.0	54.0	59.5	66.5	72.5
Cable mass	kg/m app.	1.5	1.8	2.2	3.0	3.6	4.7	5.4	6.3	7.6	8.9
Gross mass (300 m)	kg app.	535	635	780	1055	1235	1500	1930	2210	2820	3325
Bending radius	mm min.	285	310	345	400	450	500	540	595	665	725
Current rating											
In ground	Amps	87	105	125	155	185	210	240	270	315	355
In ducts	Amps	73	87	105	130	155	180	200	230	270	305
In air	Amps	80	98	120	150	190	220	250	290	345	395
Resistance											
dc @ 20°C	Ω/km max	1.200	0.868	0.641	0.443	0.320	0.253	0.206	1.640	0.125	0.100
ac @ 70°C	Ω/km max	1.442	1.043	0.771	0.533	0.385	0.305	0.249	0.199	0.152	0.123
Reactance											
Impedance	Ω/km	0.080	0.077	0.077	0.072	0.071	0.069	0.070	0.069	0.069	0.069
Short circuit ratings											
Symmetrical	kA (1sec)	2.0	2.8	3.8	5.6	7.7	9.7	12.0	15.0	19.7	24.6
Earth fault	kA (1sec)	4.3*	4.7*	6.5*	9.7*	11.6*	12.2*	19.2*	20.7*	22.2*	26.2*
(Three Phase) Volt Drop	mV/A/m	2.50	1.81	1.34	0.93	0.68	0.54	0.45	0.37	0.29	0.24

When ordering please quote: primary + size + finish code
 e.g. F4CA 4025 121

* Earth fault rating limited by symmetrical fault rating



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

F4CS... Primary group code
...111 Finish code
...212

Solid Aluminium 4 Core
600/1000 V
SANS 1507

Size code	...naaa...	4025	4035	4050	4070	4095	4120	4150	4185	4240	4300
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300
Conductor depth	mm app.	5.5	6.5	7.5	9.0	10.6	12.0	13.0	14.5	17.0	19.0
Insulation depth	mm app.	8.0	9.0	10.5	12.0	14.0	15.0	17.0	19.0	21.5	23.5
Bedding diameter	mm app.	21.0	23.0	26.5	30.5	35.0	38.0	42.0	47.0	52.5	58.0
Armour diameter	mm app.	24.0	26.0	30.0	34.5	39.0	42.0	47.0	52.0	57.5	63.0
Cable diameter	mm app.	27.5	30.0	33.5	38.5	43.5	47.0	52.0	57	63.5	69
Cable mass	kg/m app.	1.4	1.6	2.0	2.7	3.4	3.9	5.0	5.9	7.1	8.4
Gross mass (300 m)	kg app.	503	576	680	983	1099	1252	1573	1848	2215	2608
Bending radius	mm min.	275	300	335	385	435	470	520	570	635	690
Current rating											
In ground	Amps	87	105	125	155	185	210	240	270	315	355
In ducts	Amps	74	89	106	132	157	179	204	230	268	302
In air	Amps	78	93	110	145	175	205	235	270	320	365
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
ac @ 70°C	Ω/km max	1.442	1.043	0.771	0.533	0.385	0.305	0.249	0.199	0.153	0.123
Reactance											
Reactance	Ω/km	0.077	0.077	0.077	0.071	0.070	0.068	0.069	0.069	0.068	0.068
Impedance											
Impedance	Ω/km	1.444	1.046	0.774	0.538	0.392	0.313	0.258	0.211	0.167	0.141
Zero Sequence											
Resistance	Ω/km	6.185	5.389	4.529	3.148	2.713	2.475	1.799	1.586	1.409	1.254
Reactance	Ω/km	0.065	0.063	0.066	0.061	0.063	0.062	0.061	0.062	0.068	0.063
Short circuit ratings											
Symmetrical	kA (1sec)	2.0	2.8	3.8	5.5	7.7	9.7	11.9	15.0	19.7	24.6
Earth fault	kA (1sec)	4.4	4.8	5.6	8.1	9.2	9.9	13.8	15.5	17.2	19.1
(Three Phase) Volt Drop	mV/A/m	2.50	1.81	1.34	0.93	0.68	0.54	0.45	0.37	0.29	0.24

When ordering please quote: primary + size + finish code

e.g. F4CS 4025 111

* Earth fault rating limited by symmetrical fault rating



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

Copper 2 Core
 600/1000V
 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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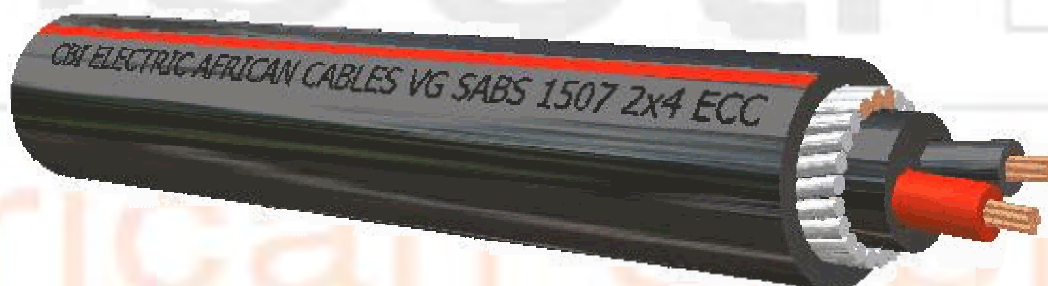
PVC
FRPVC SWA/ECC FRPVC (red stripe)
LHPVC SWA/ECC LHPVC (blue stripe)

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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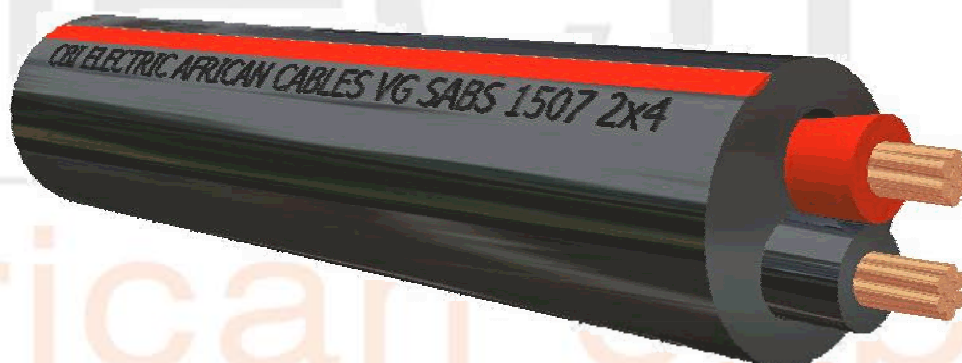


PVC	F4CC...	Primary group code	Copper 2 Core
FRPVC (red stripe)	...001	Finish code	600/1000V
LHPVC (blue stripe)	...002		SANS 1507

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

F4CC... Primary group code
...111 Finish code
...212

Copper 3 Core
600/1000 V
SANS 1507

Size code	...naaa...	3915	3925	3004	3006	3010	3016
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.	9.0	10.0	11.5	13.0	14.5	16.5
Armour diameter	mm app.	11.0	12.5	14.0	15.0	17.0	19.0
Cable diameter	mm app.	14.0	15.5	17.0	18.5	20.5	22.5
Cable mass	kg/m app.	0.45	0.50	0.61	0.72	0.90	1.15
Gross mass (500 m)	kg app.	255	280	345	400	510	635
Bending radius	mm min.	140	150	170	180	200	225
Current rating							
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
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	0.103	0.103	0.097	0.091	0.087
Capacitance	µF/km	0.334	0.398	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	25.74	19.96	15.43	12.89	10.55	8.81
Reactance	Ω/km	0.166	0.153	0.145	0.135	0.124	0.114
Short circuit ratings							
Symmetrical	kA (1sec)	0.193	0.315	0.507	0.757	1.274	2.027
Earth fault	kA (1sec)	1.427*	1.551*	1.800	1.986*	2.234*	2.544*
(Three Phase) Volt Drop	mV/A/m	25.08	15.36	9.56	6.38	3.79	2.39

When ordering please quote: primary + size + finish code
e.g. F4CC 3915 111

* Earth fault rating limited by symmetrical fault rating



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PVC F4CC... Primary group code
 FRPVC SWA / ECC FRPVC ...121 Finish code
 LHPVC SWA / ECC LHPVC ...222

Copper 3 Core
 600/1000V
 SANS 1507

Size code	...naaa...	3915	3925	3004	3006	3010	3016
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.	9.0	10.0	11.5	13.0	14.5	16.5
Armour diameter	mm app.	11.0	12.5	14.0	15.0	17.0	19.0
Cable diameter	mm app.	14.0	15.5	17.0	18.5	20.5	22.5
Cable mass	kg/m app.	0.42	0.48	0.59	0.71	0.88	1.15
Gross mass (500 m)	kg app.	230	259	337	389	499	625
Bending radius	mm min.	140	150	170	180	200	225
Current rating							
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
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	0.315	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
Zero Sequence							
Resistance	Ω/km	20.578	15.453	10.884	8.308	6.248	4.166
Reactance	Ω/km	0.166	0.153	0.145	0.135	0.124	0.114
Short circuit ratings							
Symmetrical	kA (1sec)	0.19	0.32	0.51	0.76	1.27	2.03
Earth fault	kA (1sec)	1.46*	1.57*	1.96*	2.24*	2.57*	3.28*
(Three Phase)Volt Drop	mV/A/M	25.077	15.358	9.556	6.386	3.797	2.388

When ordering please quote: primary + size + finish code
 e.g. F4CC 3925 121

* Earth fault rating limited by symmetrical fault rating



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

A member of the REUNERT Group



PVC
 FRPVC (red stripe)
 LHPVC (blue stripe)

F4CC... Primary group code
 ...001 Finish code
 ...002

Copper 3 Core
 600/1000V
 SANS 1507

Size code	...naaa...	3915	3925	3004	3006	3010	3016
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
Cable diameter	mm app.	10.5	11.0	13	14.5	16.5	18.5
Cable mass	kg/m app.	0.16	0.2	0.29	0.38	0.53	0.74
Gross mass (500 m)	kg app.	95	114	162	204	288	385
Bending radius	mm min.	84	92	104	116	132	148
Current rating							
In ducts	Amps	20	26	34	43	58	75
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	0.110	0.103	0.103	0.097	0.091	0.087
Capacitance	μF/km	0.315	0.375	0.376	0.440	0.532	0.639
Impedance	Ω/km	14.478	8.867	5.517	3.686	2.191	1.379
Short circuit ratings							
Symmetrical	kA (1sec)	0.2	0.3	0.5	0.8	1.3	2.0
(Three Phase) Volt Drop	mV/A/m	25.08	15.36	9.56	6.38	3.79	2.39

Last updated May 2006

When ordering please quote: primary + size + finish code
 e.g. F4CC 3925 001



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

F4CC... Primary group code
...111 Finish code
...212

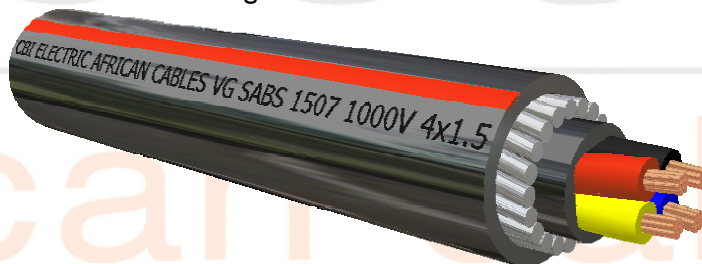
Copper 4 Core
600/1000 V
SANS 1507

Size code	...naaa...	4915	4925	4004	4006	4010	4016
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.	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
Current rating							
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
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	0.103	0.103	0.097	0.091	0.087
Capacitance	μF/km	0.334	0.398	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	29.53	22.90	17.68	15.38	12.56	10.24
Reactance	Ω/km	0.16	0.15	0.14	0.13	0.12	0.12
Short circuit ratings							
Symmetrical	kA (1sec)	0.2	0.3	0.5	0.8	1.3	2.0
Earth fault	kA (1sec)	1.4	1.4*	1.9	2.0	2.4	2.8
(Three Phase) Volt Drop	mV/A/m	25.08	15.36	9.56	6.38	3.79	2.39

When ordering please quote: primary + size + finish code

e.g. F4CC 4915 111

* Earth fault rating limited by symmetrical fault rating



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PVC
FRPVC SWA / ECC FRPVC
LHPVC SWA / ECC LHPVC

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

Copper 4 Core
600/1000V
SANS 1507

Size code	...naaa...	4915	4925	4004	4006	4010	4016
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.	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
Current rating							
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
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
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
Short circuit ratings							
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

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



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

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

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

Primary group code
 Finish code

Copper 4 Core
 600/1000 V
 SANS 1507

Size code	...naaa...	4915	4925	4004	4006	4010	4016
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
Cable diameter	mm app.	11.0	12.0	14.5	16.0	18.0	20.0
Cable mass	kg/m app.	0.19	0.24	0.36	0.46	0.65	0.92
Gross mass (500 m)	kg app.	195	220	270	315	405	535
Bending radius	mm min.	88	96	116	128	144	160
Current rating							
In air	Amps	20	26	36	45	62	82
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	Ω/km	0.107	0.103	0.103	0.097	0.091	0.087
Capacitance	μF/km	0.334	0.398	0.386	0.450	0.542	0.649
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	1.0	1.6
(Three Phase) Volt Drop	mV/A/m	25.08	15.36	9.56	6.39	3.80	2.39

When ordering please quote: primary + size + finish code
 e.g. F4CC 4915 001



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

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PVC	F4DC...	Primary group code	Copper 3 Core
FRPVC SWA FRPVC (red stripe)	...111	Finish code	1900/3300V
LHPVC SWA LHPVC (blue stripe)	...212		SANS 1507

Size code	...naaa...	3010	3016
Conductor size	mm ² nom	10	16
Conductor diameter	mm app.	4.0	5.0
Insulation diameter	mm app.	8.5	9.5
Bedding diameter	mm app.	20.5	22.5
Armour diameter	mm app.	23.0	25.0
Cable diameter	mm app.	26.5	28.5
Cable mass	kg/m app.	1.28	1.53
Gross mass (500 m)	kg app.	699	825
Bending radius	mm min.	265	285
Current rating			
In ground	Amps	68	88
In ducts	Amps	58	75
In air	Amps	62	82
Resistance			
dc @ 20°C	Ω/km max	1.83	1.15
ac @ 70°C	Ω/km max	2.19	1.38
Reactance			
Reactance	Ω/km	0.113	0.106
Impedance			
Impedance	Ω/km	2.193	1.380
Zero Sequence			
Resistance	Ω/km	7.982	6.855
Reactance	Ω/km	0.142	0.132
Short circuit ratings			
Symmetrical	kA (1sec)	1.274	2.027
Earth fault	kA (1sec)	3.165	3.413
(Three Phase) Volt Drop	mV/A/m	3.80	2.39

When ordering please quote: primary + size + finish code
e.g. F4DC 3010 111



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

A member of the REUNERT Group



PVC INSULATED HOUSEWIRE
 FRPVC (black)

 F4CC... Primary group code
 ...K Finish code

 Copper 1 Core
 600/1000 V
 SANS 1507

Size code	...naaa...	1915	1925	1004	1006	1010	1016
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	3.9	4.8
Cable diameter	mm app.	3.2	3.7	4.5	5.1	5.9	6.8
Cable mass	kg/m app.	0.02	0.03	0.05	0.07	0.11	0.17
Gross mass (100 m)	kg app.	2.5	3.6	5.4	7.5	11.5	17.3
Bending radius	mm min.	10	11	14	15	18	20
Current rating	2 touching						
In ducts	Amps	15	20	26	34	46	61
In air	Amps	20	27	37	47	65	87
Current rating	3 in trefoil						
In ducts	Amps	14	18	24	31	42	56
In air	Amps	18	25	33	43	59	79
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	0.124	0.117	0.117	0.112	0.106	0.102
Capacitance	μF/km	0.315	0.375	0.376	0.440	0.532	0.639
Impedance	Ω/km	14.478	8.867	5.517	3.686	2.191	1.379
Short circuit ratings							
*Symmetrical	kA (1sec)	0.2	0.3	0.5	0.8	1.3	2.0
(Three Phase) Volt Drop	mV/A/m	28.96	17.73	11.03	7.37	4.38	2.76
(Single Phase) Volt Drop	mV/A/m	25.08	15.36	9.56	6.38	3.79	2.39

* Assumed two cables touching in duct
 When ordering please quote: primary + size + finish code
 e.g. F4CC 1915K



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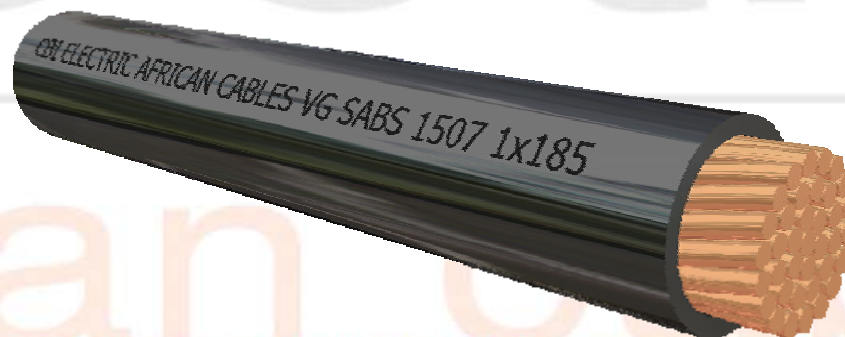
PVC 1kV 1 core copper
 Black

 F4CC...
 ...K

 Primary group code
 Finish code

Size code	...naaa...	1025	1035	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300	400	500	630
Conductor diameter	mm app.	6.5	7.5	8.5	10.0	12.0	13.5	15.0	16.5	19.0	21.5	24.0	27.5	31.5
Insulation diameter	mm app.	8.5	10.0	11.5	13.0	15.0	16.5	18.5	20.5	23.5	26.0	30.0	33.0	37.0
Cable diameter	mm app.	8.5	10.0	11.5	13.0	15.0	16.5	18.5	20.5	23.5	26.0	30.0	33.0	37.0
Cable mass	kg/m app.	0.26	0.35	0.47	0.67	0.92	1.13	1.40	1.75	2.29	2.87	3.65	4.67	5.96
Gross mass (500 m)	kg app.	167	211	273	372	495	604	737	913	1183	1471	1863	2372	3018
Bending radius	mm min.	85	100	115	130	150	165	185	205	235	260	300	330	370
Current rating	(trefoil)													
In air	Amps	110	135	170	220	270	310	360	420	495	580	680	780	900
Resistance														
dc @ 20°C	Ω/km max	0.727	0.524	0.387	0.268	0.232	0.153	0.124	0.099	0.075	0.060	0.047	0.037	0.028
ac @ 70°C	Ω/km max	0.870	0.627	0.464	0.321	0.235	0.184	0.150	0.121	0.093	0.075	0.061	0.049	0.041
Reactance	Ω/km	0.086	0.084	0.084	0.098	0.093	0.091	0.088	0.087	0.086	0.082	0.080	0.080	0.077
Impedance 70°C	Ω/km	0.874	0.633	0.471	0.330	0.242	0.198	0.167	0.086	0.117	0.111	0.101	0.094	0.087
Short circuit ratings														
Symmetrical	kA (1sec)	3.2	4.5	6.0	8.7	12.1	15.2	18.8	23.5	30.9	38.8	35.3	45.3	58.6

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



XLPE
FRPVC AWA FRPVC (red stripe)
LHFRPVC AWA LHFRPVC (blue stripe)

F2CC... 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	1400	1500	1630	1800	1999
Conductor size	mm ² nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.5	10.0	12.0	14.0	14.5	16.0	18.5	21.0	23.5	26.5	30.0	34.5	39.0
Insulation diameter	mm app.	10.5	12.0	14.0	16.0	17.5	19.5	22.0	24.5	27.5	31.0	35.0	40.0	45.0
Bedding diameter	mm app.	12.5	14.0	16.0	19.0	20.5	22.0	25.0	27.0	30.5	34.5	38.0	44.0	49.0
Armour diameter	mm app.	16.0	17.5	19.5	22.5	23.5	25.5	28.0	30.5	34.5	38.5	42.0	49.0	54.0
Cable diameter	mm app.	20.0	21.5	23.5	26.5	28.0	30.0	32.5	35.5	39.5	43.5	48.0	54.5	60.0
Cable mass	kg/m app.	0.7	0.8	1.0	1.2	1.3	1.5	1.8	2.1	2.8	3.3	3.97	5.2	6.2
Gross mass (500 m)	kg app.	385	447	524	639	704	831	1003	1211	1540	1827	2284	2897	3392
Bending radius	mm min.	200	215	235	265	280	300	325	355	395	435	480	545	600
Current rating	(trefoil)													
In ground	Amps	192	238	292	329	364	412	487	555	560	572	582	588	601
In ducts	Amps	163	202	249	279	310	350	414	472	476	486	495	500	511
In air	Amps	176	220	274	313	348	397	476	548	560	579	597	611	633
Resistance														
dc @ 20°C	Ω/km max	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.078	0.061	0.047	0.037	0.029
ac @ 90°C	Ω/km max	0.822	0.569	0.411	0.325	0.265	0.212	0.163	0.131	0.103	0.082	0.066	0.048	0.039
Reactance	Ω/km	0.079	0.073	0.071	0.073	0.072	0.070	0.071	0.069	0.069	0.068	0.069	0.070	0.069
Impedance	Ω/km	0.826	0.573	0.417	0.334	0.275	0.223	0.177	0.148	0.124	0.107	0.096	0.085	0.079
Zero Sequence														
Resistance	Ω/km	0.340	0.286	0.267	0.287	0.269	0.259	0.261	0.248	0.242	0.237	0.246	0.252	0.248
Reactance	Ω/km	0.649	0.569	0.504	0.469	0.441	0.408	0.389	0.359	0.304	0.290	0.288	0.273	0.265
Short circuit ratings														
Symmetrical	kA (1sec)	2.7	3.8	5.3	6.7	8.3	10.4	13.6	17.0	21.9	28.2	36.3	46.4	58.5
Earth fault	kA (1sec)	3.4	3.8	4.4	5.1	5.3	5.9	6.5	7.2	10.1	11.2	12.5	17.8	19.9
(Three Phase) Volt Drop	mV/A/m	1.43	0.99	0.72	0.58	0.48	0.39	0.31	0.26	0.21	0.19	0.17	0.15	0.14

When ordering please quote: primary + size + finish code
e.g. F2CC 1050 141



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

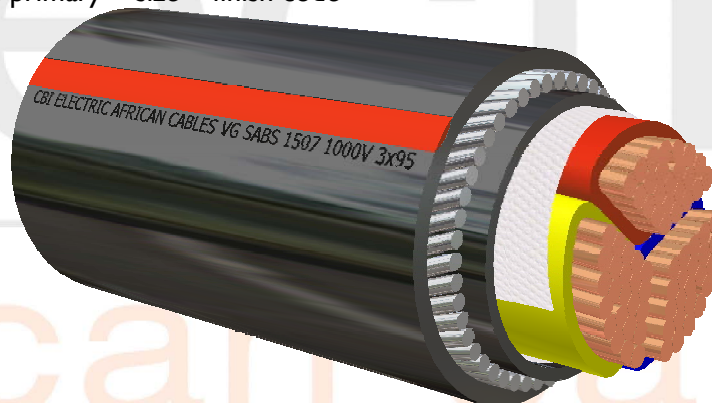
A member of the REUNERT Group



XLPE
FRPVC SWA FRPVC (red stripe) F2CC... Primary group code
LHPVC SWA LHPVC (blue stripe) ...111 Finish code
Copper 3 Core
600/1000V
SANS 1507

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	6.0	6.0	7.0	8.5	10.0	11.0	12.5	14.0	16.0	18.0
Insulation diameter	mm app.	7.5	8.0	9.0	11.0	12.0	13.5	15.0	17.0	19.5	21.5
Bedding diameter	mm app.	20.5	19.5	22.0	25.5	29.0	32.0	35.5	40.0	44.5	49.0
Armour diameter	mm app.	23.5	22.0	24.0	29.5	33.0	36.0	39.5	45.0	49.5	54.0
Cable diameter	mm app.	27.0	25.5	28.0	33.5	37.0	41.0	44.0	50.0	54.5	59.5
Cable mass	kg/m app.	1.91	1.72	2.16	3.28	4.22	5.09	6.06	7.80	9.66	11.67
Gross mass (300 m)	kg app.	603	547	678	1023	1307	1588	1877	2399	2957	3562
Bending radius	mm min.	270	255	280	335	370	410	440	500	545	595
Current rating											
In ground	Amps	140	170	200	245	300	340	375	420	485	550
In ducts	Amps	115	140	165	205	245	280	310	355	405	460
In air	Amps	135	165	200	255	310	360	405	465	550	620
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 @ 90°C	Ω/km max	0.927	0.669	0.494	0.343	0.248	0.197	0.161	0.129	0.100	0.082
Zero Sequence											
Resistance	Ω/km	8.690	7.448	6.512	3.458	3.021	2.745	2.471	1.758	1.578	1.433
Reactance	Ω/km	0.063	0.062	0.063	0.057	0.056	0.058	0.060	0.059	0.059	0.060
Reactance	Ω/km	0.070	0.069	0.067	0.063	0.061	0.060	0.061	0.062	0.061	0.061
Impedance	Ω/km	0.930	0.672	0.499	0.349	0.255	0.206	0.193	0.144	0.118	0.102
Capacitance	μF/km	0.442	0.510	0.529	0.576	0.665	0.683	0.654	0.644	0.689	0.729
Short circuit ratings											
Symmetrical	kA (1sec)	3.4	4.7	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2
Earth fault	kA (1sec)	2.6	2.9	3.3	6.4	7.2	7.9	8.7	12.3	13.5	14.8
(Three Phase) Volt Drop	mV/A/m	1.61	1.16	0.86	0.60	0.44	0.36	0.33	0.25	0.20	0.18

When ordering please quote: primary + size + finish code
e.g. F2CC 3025 111



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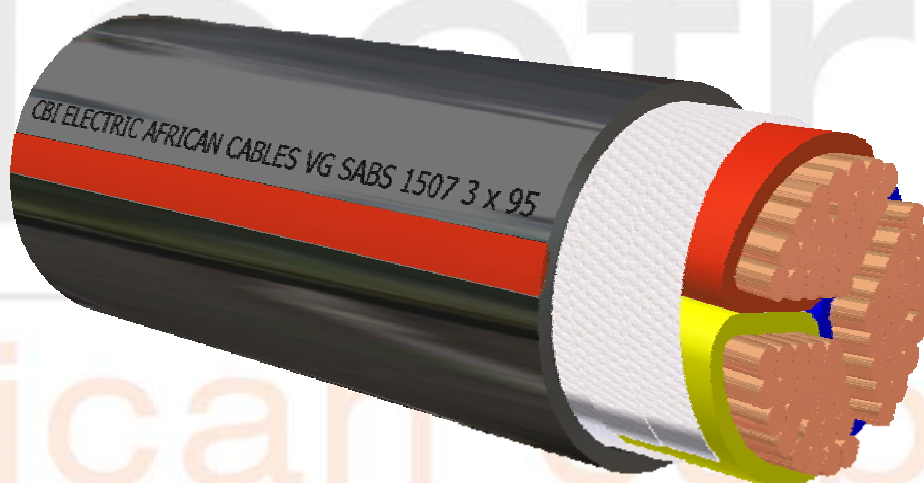
XLPE
FRPVC (red stripe)
LHPVC (blue stripe)

F2CC... Primary group code
...001 Finish code
...002

Copper 3 Core
600/1000V
SANS 1507

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	5.0	6.0	7.0	8.5	10.0	11.0	12.5	14.0	16.0	18.0
Insulation diameter	mm app.	7.0	8.0	9.0	11.0	12.0	13.5	15.0	17.0	19.5	21.5
Cable diameter	mm app.	19	20.5	23	27	30	33	37	41	46	51
Cable mass meter	kg/m app.	0.86	1.14	1.50	2.13	2.87	3.57	4.41	5.49	7.15	8.92
Gross mass (300 m)	kg app.	285	369	477	679	900	1128	1383	1706	2205	2736
Bending radius	mm min.	152	164	184	216	240	264	296	328	368	408
Current rating											
In ducts	Amps	115	140	165	205	245	280	310	355	405	460
In air	Amps	135	165	200	255	310	360	405	465	550	620
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 @ 90°C	Ω/km max	0.927	0.669	0.494	0.343	0.247	0.197	0.161	0.130	0.101	0.082
Reactance	Ω/km	0.069	0.067	0.067	0.063	0.060	0.060	0.060	0.060	0.060	0.056
Impedance	Ω/km	0.875	0.633	0.471	0.331	0.245	0.200	0.169	0.143	0.120	0.107
Short circuit ratings											
Symmetrical	kA (1sec)	3.4	4.7	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2
(Three Phase) Volt Drop	mV/A/m	1.61	1.16	0.86	0.60	0.44	0.36	0.30	0.25	0.20	0.17

When ordering please quote: primary + size + finish code
e.g. F2CC 3025 001



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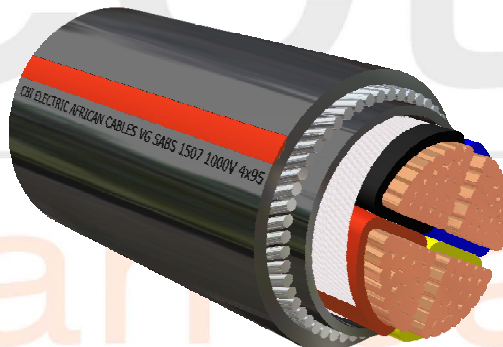
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XLPE
 FRPVC SWA FRPVC (red stripe) F2CC... Primary group code Copper 4 Core
 ...111 Finish code 600/1000V
 LHPVC SWA LHPVC (blue stripe) ...212 SANS 1507

Size code	...naaa...	4025	4035	4050	4070	4095	4120	4150	4185	4240	4300
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	6.0	7.0	8.0	9.5	11.0	12.5	14.0	15.5	18.0	20.0
Insulation diameter	mm app.	7.5	8.5	10.0	12.0	13.5	15.0	17.0	19.0	21.5	24.0
Bedding diameter	mm app.	20.5	22.5	25.5	30.0	34.0	37.5	42.5	47	53	58.5
Armour diameter	mm app.	23.5	26.0	28.5	34.0	38.0	41.5	47.5	52	58	63.5
Cable diameter	mm app.	27	29.5	32.5	38	42.5	46.5	52.5	57.5	63.5	69.5
Cable mass	kg/m app.	1.91	2.38	2.98	4.25	5.47	6.61	8.41	10.14	12.71	15.38
Gross mass (300 m)	kg app.	603	743	923	1316	1680	2042	2583	3103	3872	4673
Bending radius	mm min.	270	295	325	380	425	465	525	575	635	695
Current rating											
In ground	Amps	140	170	200	245	300	340	375	420	485	550
In ducts	Amps	115	140	165	205	245	280	310	355	405	460
In air	Amps	135	165	200	255	310	360	405	465	550	620
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 @ 90°C	Ω/km max	0.927	0.669	0.494	0.343	0.248	0.197	0.161	0.129	0.100	0.082
Zero Sequence											
Resistance	Ω/km	7.548	6.695	5.787	3.954	3.446	3.115	2.206	1.995	1.761	1.599
Reactance	Ω/km	0.057	0.570	0.058	0.058	0.056	0.057	0.056	0.058	0.058	0.059
Reactance	Ω/km	0.075	0.073	0.073	0.069	0.066	0.066	0.067	0.067	0.066	0.066
Impedance	Ω/km	0.931	0.673	0.500	0.350	0.258	0.209	0.175	0.147	0.122	0.107
Short circuit ratings											
Symmetrical	kA (1sec)	2.2	3.1	4.2	6.0	8.3	10.5	13.0	16.3	21.4	26.8
Earth fault	kA (1sec)	3.0	3.3	3.8	5.5	6.3	6.9	9.8	10.8	12.1	13.3
(Three Phase) Volt Drop	mV/A/m	1.61	1.17	0.86	0.61	0.44	0.36	0.30	0.25	0.21	0.18

When ordering please quote: primary + size + finish code
 e.g. F2CC 4025 111



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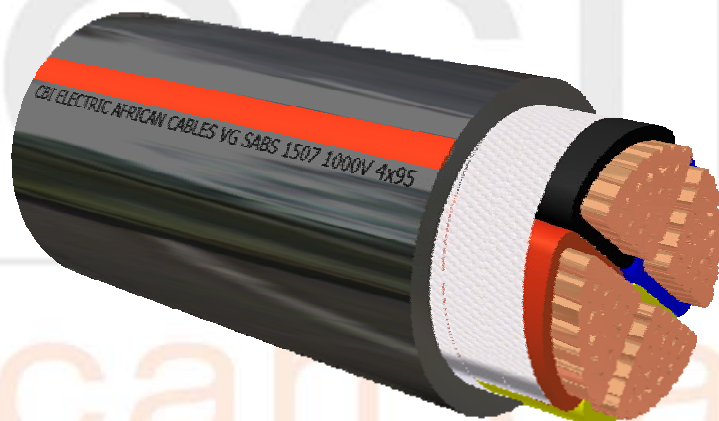
XLPE
FRPVC (red stripe)
LHPVC (blue stripe)

F2CC... Primary group code
...001 Finish code
...002

Copper 4 Core
600/1000V
SANS 1507

Size code	...naaa...	4025	4035	4050	4070	4095	4120	4150	4185	4240	4300
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	6.0	7.0	8.0	9.5	11.0	12.5	14.0	15.5	18.0	20.0
Insulation diameter	mm app.	7.5	8.5	10.0	12.0	13.5	15.0	17.0	19.0	21.5	24.0
Cable diameter	mm app.	21.5	24	27	31.5	35.5	39	43.5	49	55	61
Cable mass meter	kg/m app.	1.15	1.50	2.05	2.85	3.85	4.75	5.90	7.35	9.60	11.95
Gross mass (300 m)	kg app.	375	480	645	895	1195	1485	1830	2265	2940	3645
Bending radius	mm min.	172	192	216	252	284	312	348	392	440	488
Current rating											
In ducts	Amps	115	140	165	205	245	280	310	355	405	460
In air	Amps	135	165	200	255	310	360	405	465	550	620
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 @ 90°C	Ω/km max	0.927	0.669	0.494	0.343	0.247	0.197	0.161	0.129	0.100	0.082
Reactance	Ω/km	0.075	0.073	0.073	0.069	0.066	0.066	0.065	0.067	0.066	0.066
Impedance	Ω/km	0.931	0.673	0.500	0.350	0.258	0.209	0.175	0.147	0.122	0.107
Short circuit ratings											
Symmetrical	kA (1sec)	3.4	4.7	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2
(Three Phase) Volt Drop	mV/A/m	1.61	1.17	0.86	0.61	0.44	0.36	0.30	0.25	0.21	0.18

When ordering please quote: primary + size + finish code
e.g. F2CC 4025 001



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Low Voltage XLPE Cables

XLPE F2DC... Primary group code
 FRPVC AWA FRPVC (red stripe) ...141 Finish code
 LHPVC AWA LHPVC (blue stripe) ...242

Copper I Core
 I900/3300V
 SANS 1507

Size code	...naaa...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
Conductor size	mm ² nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.5	10.0	12.0	13.5	15.0	16.5	19.0	21.5	24.0	27.5	30.5	35.0	39.0
Insulation diameter	mm app.	12.5	14.5	16.0	17.5	19.0	21.0	23.0	25.5	28.0	32.0	35.5	39.5	45.0
Bedding diameter	mm app.	14.5	16.5	19.0	20.5	22.0	23.5	26.0	28.5	31.5	35.5	39.5	44.0	49.0
Armour diameter	mm app.	18.5	20.5	23.0	24.5	26.0	27.5	30.0	33.5	36.0	40.0	45.0	49.5	54.5
Cable diameter	mm app.	22.0	23.5	26.5	28.0	29.0	31.5	33.5	37.5	41.0	44.5	50.0	54.5	60.0
Cable mass	kg/m app.	1.08	1.33	1.71	1.98	2.29	2.70	3.30	4.22	5.13	6.32	8.23	10.09	12.33
Gross mass (500 m)	kg app.	345	448	591	711	842	1037	1337	16618	17900	19900	22400	4299	5288
Bending radius	mm min.	220	235	265	280	290	315	335	375	410	445	500	545	600
Current rating	(trefoil)													
In ground	Amps	200	220	265	300	335	380	440	495	651	684	750	789	836
In air	Amps	203	220	270	310	360	420	495	580	720	815	917	992	1081
Resistance														
dc @ 20°C	Ω/km max	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060	0.047	0.037	0.028	0.022	0.018
ac @ 90°C	Ω/km max	0.464	0.343	0.247	0.197	0.160	0.129	0.100	0.081	0.066	0.054	0.044	0.030	0.025
Reactance	Ω/km	0.090	0.084	0.080	0.078	0.077	0.075	0.074	0.072	0.071	0.070	0.070	0.070	0.069
Impedance	Ω/km	0.502	0.353	0.260	0.212	0.178	0.149	0.124	0.109	0.096	0.088	0.083	0.076	0.074
Short circuit ratings														
Symmetrical	kA (1sec)	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2	52.7	67.6	87.5	112.0	140.6
Earth fault	kA (1sec)	4.6	5.1	5.9	6.2	6.7	7.2	7.9	11.0	12.1	13.6	18.9	20.9	23.3
(Three Phase) Volt Drop	mV/A/m	0.87	0.61	0.45	0.37	0.31	0.26	0.21	0.19	0.17	0.15	0.14	0.13	0.13

When ordering please quote: primary + size + finish code
 e.g. F2DC 1120 141



Last updated May 2006



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

XLPE
FRPVC SWA FRPVC (red stripe)
LHPVC SWA LHPVC (blue stripe)

F2DC Primary group code
...111 Finish code
...212

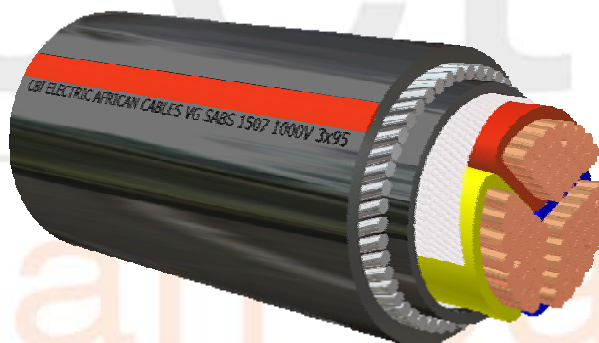
Copper 3 Core
1900/3300V
SANS 1507

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300	3400
Conductor size	mm ² nom	*25	*35	50	70	95	120	150	185	240	300	400
Conductor diameter	mm app.	6.0	7.5	7.0	8.5	10.0	11.0	12.0	14.0	15.5	17.5	20.0
Insulation diameter	mm app.	10.5	11.5	11.0	12.5	14.0	15.0	16.5	18.0	20.0	22.0	24.0
Bedding diameter	mm app.	25.0	27.5	26.0	29.5	32.5	35.0	38.0	41.5	46.0	50.0	55.0
Armour diameter	mm app.	28.0	30.5	29.0	33.5	36.5	39.0	42.0	46.5	51.0	55.0	60.0
Cable diameter	mm app.	32	34.5	33	37.5	41	43.5	46.5	52	56	60.5	65.5
Cable mass	kg/m app.	2.0	2.4	2.6	3.6	4.5	5.4	6.3	8.0	10.0	11.9	14.4
Gross mass (300 m)	kg app.	676	797	872	1180	1482	1739	2043	2552	3277	3837	4593
Bending radius	mm min.	320	345	330	375	410	435	465	520	560	605	655
Current rating												
In ground	Amps	135	165	195	235	285	320	360	405	465	530	605
In air	Amps	145	170	205	255	315	365	415	490	560	640	730
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	0.047
ac @ 90°C	Ω/km max	0.927	0.669	0.494	0.343	0.247	0.196	0.160	0.128	0.100	0.082	0.067
Reactance	Ω/km	0.098	0.094	0.079	0.074	0.068	0.068	0.065	0.063	0.062	0.060	0.059
Impedance	Ω/km	0.933	0.675	0.502	0.353	0.260	0.212	0.178	0.150	0.124	0.109	0.097
Zero Sequence												
Resistance	Ω/km	4.863	4.336	4.354	3.096	2.732	2.546	2.326	1.692	1.523	1.410	1.272
Reactance	Ω/km	0.079	0.076	0.078	0.071	0.069	0.068	0.067	0.063	0.062	0.061	0.061
Short circuit ratings												
Symmetrical	kA (1sec)	3.4	4.7	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2	52.7
Earth fault	kA (1sec)	4.3	4.7	4.5	6.3	7.1	7.5	8.1	11.2	12.4	13.3	14.6
(Three Phase)Volt Drop	mV/A/m	1.61	1.17	0.87	0.61	0.45	0.36	0.30	0.25	0.20	0.18	0.15

*Circular conductors

When ordering please quote: primary + size + finish code

e.g. F2DC 3120 111



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XLPE
FRPVC SWA FRPVC (red stripe)
LHPVC SWA LHPVC (blue stripe)

F2CC... Primary group code
...111 Finish code
...212

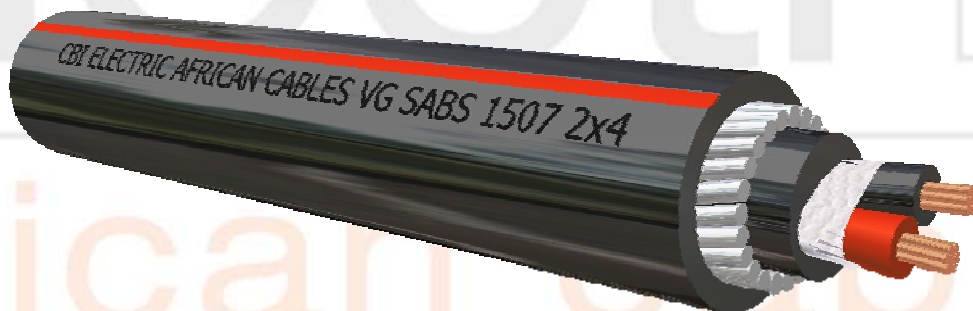
Copper 2 Core
600/1000V
SANS 1507

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.	1.6	2.0	2.5	3.0	4.0	5.0	4.0	5.0	5.5
Insulation diameter	mm app.	3.0	3.5	4.0	4.5	5.5	6.5	6.0	7.0	7.5
Bedding diameter	mm app.	8.0	9.0	10.0	11.0	12.5	14.5	14.0	15.5	17.0
Armour diameter	mm app.	10.5	11.5	12.5	13.5	15.0	17.0	17.0	18.5	20.5
Cable diameter	mm app.	13.5	14.5	15.5	16.5	18.5	20.0	20.0	22.0	24.0
Cable mass	kg/m app.	0.43	0.48	0.56	0.65	0.82	1.03	1.11	1.34	1.64
Gross mass (500 m)	kg app.	226	256	302	347	441	551	579	690	880
Bending radius	mm min.	135	145	155	165	185	200	210	220	240
Current rating										
In ground	Amps	36	46	61	76	100	130	145	180	223
In air	Amps	30	40	53	68	92	120	131	160	195
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 @ 90°C	Ω/km max	15.43	9.45	5.88	3.93	2.33	1.47	0.93	0.67	0.49
Reactance	Ω/km	0.106	0.099	0.093	0.089	0.084	0.081	0.059	0.057	0.056
Impedance	Ω/km	14.478	8.867	5.517	3.687	2.912	1.379	0.873	0.631	0.426
Zero sequence										
Resistance	Ω/km	22.06	16.50	12.36	10.05	8.17	6.66	5.53	4.99	4.31
Reactance	Ω/km	0.18	0.16	0.15	0.14	0.13	0.12	0.06	0.06	0.06
Short circuit ratings										
Symmetrical	kA (1sec)	0.2	0.3	0.5	0.8	1.4	2.2	3.2	4.4	6.4
Earth fault	kA (1sec)	1.2	1.3	1.4	1.5	1.7	2.0	2.4	2.5	3.0
(Single Phase) Volt Drop	mV/A/m	30.86	18.90	11.76	7.86	4.67	2.94	1.86	1.34	1.00

*D Shaped Conductors.

When ordering please quote: primary + size + finish code

e.g. F2CC 2925 111



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Low Voltage XLPE Cables

XLPE	F2CC...	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	2025	2035	2050
Conductor size	mm ² nom	1.5	2.5	4	6	10	16	25	*35	*50
Conductor diameter	mm app.	1.6	2.0	2.5	3.0	4.0	5.0	4.0	5.0	5.5
Insulation diameter	mm app.	3.0	3.5	4.0	4.5	5.5	6.5	6.0	7.0	7.5
Cable diameter	mm app.	10.0	10.5	11.5	12.5	14.5	16.5	16.0	17.5	19.5
Cable mass	kg/m app.	0.16	0.19	0.24	0.31	0.44	0.60	0.61	0.80	1.05
Gross mass (500 m)	kg app.	78	92	122	145	213	279	356	449	571
Bending radius	mm min.	80	84	92	100	116	132	128	140	156
Current rating										
In ground	Amps	36	46	61	76	100	130	145	180	223
In air	Amps	30	40	53	68	92	120	131	160	195
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 @ 90°C	Ω/km max	15.43	9.45	5.88	3.93	2.33	1.47	0.93	0.67	0.49
Reactance										
Impedance	Ω/km	0.106	0.099	0.093	0.089	0.084	0.081	0.059	0.057	0.056
Short circuit ratings										
Symmetrical	kA (1sec)	0.2	0.3	0.5	0.8	1.4	2.2	3.4	4.7	6.4
(Single Phase) Volt Drop	mV/A/m	30.86	18.90	11.76	7.86	4.67	2.94	1.86	1.34	1.00

*D Shaped Conductors.

When ordering please quote: primary + size + finish code

e.g. F2CC 2925 001



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

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XLPE
FRPVC SWA FRPVC (red stripe)
LHPVC SWA LHPVC (blue stripe)

F2CC...
...111
...212

Primary group code
Finish code

Copper 3 Core
600/1000V
SANS 1507

Size code	...naaa...	3915	3925	3004	3006	3010	3016
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.	3.0	3.5	4.0	4.5	5.5	6.5
Bedding diameter	mm app.	8.5	9.5	10.5	12.0	13.5	15.5
Armour diameter	mm app.	11.0	12.0	13.0	14.0	16.0	18.0
Cable diameter	mm app.	14	15.0	16.0	17.0	19.0	21.0
Cable mass	kg/m app.	0.43	0.50	0.58	0.68	0.87	1.11
Gross mass (500 m)	kg app.	280	305	390	440	530	710
Bending radius	mm min.	140	150	160	170	190	210
Current rating							
In ground	Amps	30	39	51	64	86	110
In air	Amps	25	33	45	57	79	105
Resistance							
dc @ 20°C	Ω/km max	12.10	7.41	4.61	3.08	1.83	1.15
ac @ 90°C	Ω/km max	15.43	9.45	5.88	3.93	2.33	1.47
Reactance	Ω/km	0.106	0.099	0.093	0.089	0.084	0.081
Impedance	Ω/km	14.478	8.867	5.517	3.687	2.192	1.378
Zero Sequence							
Resistance	Ω/km	26.362	20.483	16.231	13.539	11.058	9.195
Reactance	Ω/km	0.170	0.164	0.150	0.139	0.126	0.116
Short circuit ratings							
Symmetrical	kA (1sec)	0.2	0.3	0.5	0.8	1.4	2.2
Earth fault	kA (1sec)	1.2	1.3	1.5	1.6	1.9	2.1
(Three Phase) Volt Drop	mV/A/m	26.72	16.37	10.18	6.80	4.05	2.54

When ordering please quote: primary + size + finish code
e.g. F2CC 3925 111



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

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XLPE	F2CC...	Primary group code	Copper 3 Core
FRPVC (red stripe)	...001	Finish code	600/1000V SANS
LHPVC (blue stripe)	...002		1507

Size code	...naaa...	3915	3925	3004	3006	3010	3016
Conductor size	mmI 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.	3.0	3.5	4.0	4.5	5.5	6.5
Cable diameter	mm app.	10.0	11.0	12.0	13.5	15.5	17.5
Cable mass	kg/m app.	0.18	0.22	0.29	0.37	0.53	0.74
Gross mass (500 m)	kg app.	105	130	165	190	285	360
Bending radius	mm min.	80	88	96	108	124	140
Current rating							
In ground	Amps	30	39	51	64	86	110
In air	Amps	25	33	45	57	79	105
Resistance							
dc @ 20°C	Ω/km max	12.10	7.41	4.61	3.08	1.83	1.15
ac @ 90°C	Ω/km max	15.43	9.45	5.88	3.93	2.33	1.47
Reactance	Ω/km	0.106	0.099	0.093	0.089	0.084	0.081
Impedance	Ω/km	14.478	8.867	5.517	3.687	2.192	1.378
Short circuit ratings							
Symmetrical	kA (1sec)	0.2	0.3	0.5	0.8	1.4	2.2
Earth fault	kA (1sec)	1.2	1.3	1.5	1.6	1.9	2.1
(Three Phase) Volt Drop	mV/A/m	26.72	16.37	10.18	6.80	4.05	2.54

When ordering please quote: primary + size + finish code e.g.
F2CC 3925 001



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XLPE
FRPVC SWA FRPVC (red stripe)
LHPVC SWA LHPVC (blue stripe)

F2CC... Primary group code
...111 Finish code
...212

Copper 4 Core
600/1000V
SANS 1507

Size code	...naaa...	4915	4925	4004	4006	4010	4016
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.	3.0	3.5	3.9	4.5	5.5	6.5
Bedding diameter	mm app.	9.5	10.5	11.5	13.0	15.0	17.0
Armour diameter	mm app.	12.0	13.0	14.0	15.5	17.5	19.5
Cable diameter	mm app.	15	16	17	18.5	20.5	23
Cable mass	kg/m app.	0.44	0.51	0.61	0.74	0.96	1.25
Gross mass (500 m)	kg app.	250	285	345	409	539	684
Bending radius	mm min.	150	160	170	185	205	230
Current rating							
In ground	Amps	30	39	51	64	86	110
In duct	Amps	25	33	43	54	73	94
In air	Amps	25	33	45	57	79	105
Resistance							
dc @ 20°C	Ω/km max	12.10	7.41	4.61	3.08	1.83	1.15
ac @ 90°C	Ω/km max	14.48	8.87	5.52	3.69	2.19	1.38
Reactance							
Impedance	Ω/km	0.106	0.099	0.093	0.086	0.084	0.081
Zero Sequence							
Resistance	Ω/km	29.531	23.500	19.036	16.153	13.137	11.111
Reactance	Ω/km	0.166	0.153	0.093	0.131	0.119	0.110
Short circuit ratings							
Symmetrical	kA (1sec)	0.2	0.3	0.5	0.8	1.4	2.2
Earth fault	kA (1sec)	1.1	1.2	1.3	1.5	1.7	1.9
(Three Phase) Volt Drop	mV/A/m	25.08	15.36	9.56	6.38	3.79	2.39

When ordering please quote: primary + size + finish code
e.g. F2CC 4925 111



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XLPE	F2CC...	Primary group code	Copper 4 Core
FR PVC (red stripe)	...001	Finish code	600/1000 V
LH PVC (blue stripe)	...002		SANS 1507

Size code	...naaa...	4915	4925	4004	4006	4010	4016
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	4.8
Insulation diameter	mm app.	3.0	3.5	4.0	4.5	5.5	6.5
Cable diameter	mm app.	11.0	12.0	13.0	15.0	17.0	19.0
Cable mass	kg/m app.	0.12	0.26	0.34	0.45	0.64	0.91
Gross mass (500 m)	kg app.	189	213	245	294	377	495
Bending radius	mm min.	88	96	104	120	136	156
Current rating							
In ducts	Amps	24	32	42	52	70	89
In air	Amps	25	33	42	57	79	105
Resistance							
dc @ 20°C	Ω/km max	12.10	7.41	4.61	3.08	1.83	1.15
ac @ 90°C	Ω/km max	15.43	9.45	5.88	3.93	2.33	1.47
Reactance	Ω/km	0.106	0.099	0.093	0.089	0.084	0.081
Impedance	Ω/km	14.478	8.867	5.517	3.687	2.192	1.378
Short circuit ratings							
Symmetrical (Three Phase) Volt Drop	kA (1sec)	0.2	0.3	0.5	0.8	1.4	2.2
	mV/A/m	26.72	16.37	10.18	6.80	4.04	2.54

When ordering please quote: primary + size + finish code
 e.g. F2CC 4915 001



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XLPE

F6CC...

Primary group code

ZEROTOX AWA ZEROTOX (white stripe) ...343

Finish code

Copper 1 Core

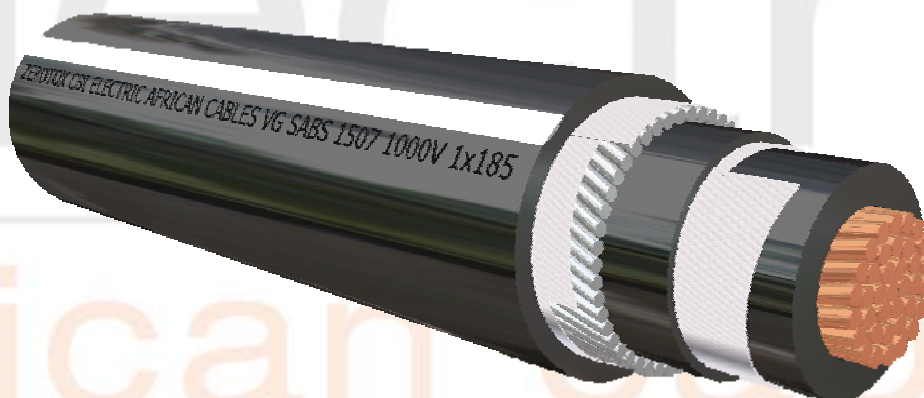
600/1000V

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.	28.0	32.0	35.5	40.0	45.0
Bedding diameter	mm app.	31.5	35.5	39.5	44.0	49.0
Armour diameter	mm app.	35.5	39.5	44.5	49.0	54.0
Cable diameter	mm app.	41.0	44.5	50.0	54.5	60.0
Cable mass	kg/m app.	4.6	5.7	7.4	9.2	11.3
Gross mass (500 m)	kg app.	2458	3014	3991	4891	5941
Bending radius	mm min.	615	668	750	818	900
Current rating	(trefoil)					
In ground	Amps	540	595	650	680	720
In duct	Amps	440	470	510	530	560
In air	Amps	657	731	809	886	945
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	0.071	0.070	0.070	0.070	0.069
Impedance	Ω/km	0.094	0.087	0.083	0.076	0.074
Short circuit ratings						
Symmetrical	kA (1sec)	56.6	72.8	94.1	120.5	151.2
Earth fault	kA (1sec)	11.8	13.3	18.4	20.4	22.7
(Three Phase) Volt Drop	mV/A/m	0.16	0.15	0.14	0.13	0.13
(Single Phase) Volt Drop	mV/A/m	0.19	0.17	0.16	0.15	0.15

When ordering please quote: primary + size + finish code

e.g. F6CC 1400 343



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

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Low Voltage NHL SFR Cables

Only for use in applications protected from solar radiation.

NHL SFR F6CC... Primary group code
 ZEROTOX (white stripe) ...003 Finish code

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	36.0	40.0	45.0
Cable diameter	mm app.	33.5	38.0	41.0	45.5	50.5
Cable mass	kg/m app.	4.0	5.1	6.4	8.1	10.1
Gross mass (500 m)	kg app.	2291	2814	3490	4341	5340
Bending radius	mm min.	503	570	615	683	758
Current rating	(trefoil)					
In ground	Amps	540	610	687	745	822
In duct	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	0.070
Impedance	Ω/km	0.096	0.089	0.083	0.076	0.074
Short circuit ratings						
Symmetrical	kA (1sec)	42.3	54.3	70.3	90.0	113.0
(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. F6CC 1400 003



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XLPE F6CC... Primary group code

ZEROTOX SWA ZEROTOX (white stripe) 313 Finish code

Copper 3 Core

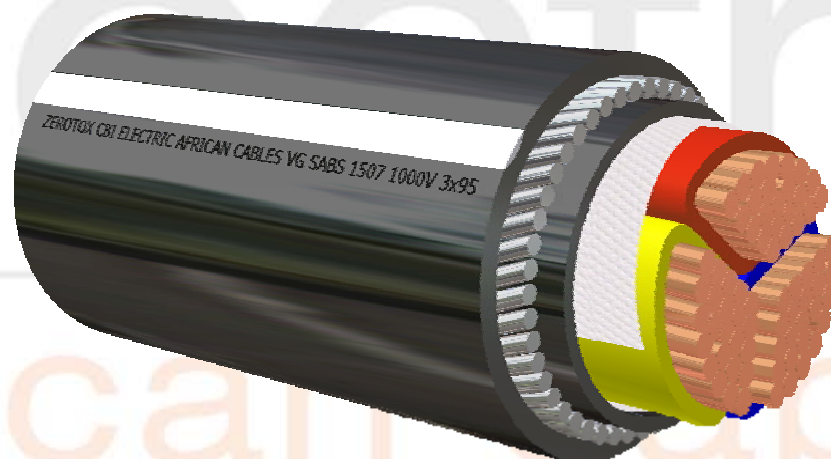
600/1000V

SANS 1507

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300	3400
Conductor size	mm ² 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.	7.0	8.0	9.0	11.0	12.0	13.5	15.0	17.0	19.5	21.5	24.0
Bedding diameter	mm app.	17.0	19.0	21.5	25.0	28.5	31.5	35.0	39.5	44.0	48.9	55.0
Armour diameter	mm app.	20.5	22.0	24.5	28.0	32.5	35.5	40.0	44.5	49.0	54.0	60.0
Cable diameter	mm app.	24.5	26.5	29.0	33.0	39.5	40.5	45.5	50.5	55.5	60.5	66.5
Cable mass	kg/m app.	1.5	1.9	2.3	3.1	4.4	5.1	6.4	7.8	9.7	11.8	14.6
Gross mass (300 m)	kg app.	547	662	819	1091	1621	1820	2279	2885	3471	4585	5420
Bending radius	mm min.	368	398	435	495	593	608	683	758	833	908	998
Current rating												
In ground	Amps	120	145	170	210	260	295	325	360	420	475	475
In ducts	Amps	99	120	140	175	210	240	265	305	350	395	395
In air	Amps	115	140	170	215	260	305	340	390	465	520	520
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	0.047
ac @ 70°C	Ω/km max	0.927	0.669	0.494	0.343	0.248	0.197	0.161	0.130	0.101	0.082	0.067
Reactance	Ω/km	0.069	0.067	0.067	0.063	0.060	0.060	0.060	0.060	0.060	0.059	0.059
Impedance	Ω/km	0.930	0.672	0.499	0.349	0.190	0.206	0.172	0.143	0.191	0.101	0.089
Zero Sequence												
Resistance	Ω/km	6.618	5.924	5.247	4.494	3.086	2.800	2.020	1.793	1.578	1.433	1.272
Reactance	Ω/km	0.058	0.057	0.059	0.060	0.056	0.058	0.057	0.059	0.059	0.060	0.061
Short circuit ratings												
Symmetrical	kA (1sec)	3.66	5.08	6.88	9.94	13.81	17.41	21.49	26.89	35.34	44.33	56.69
Earth fault	kA (1sec)	2.81	3.07	3.41	3.92	5.72	6.26	8.73	9.77	11.02	12.06	13.52
(Three Phase)Volt Drop	mV/A/m	1.61	1.16	0.86	0.60	0.33	0.36	0.30	0.25	0.33	0.17	0.15

When ordering please quote: primary + size + finish code

e.g. F6CC 3025 313



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Copper 4 Core

XLPE F6CC Primary group code

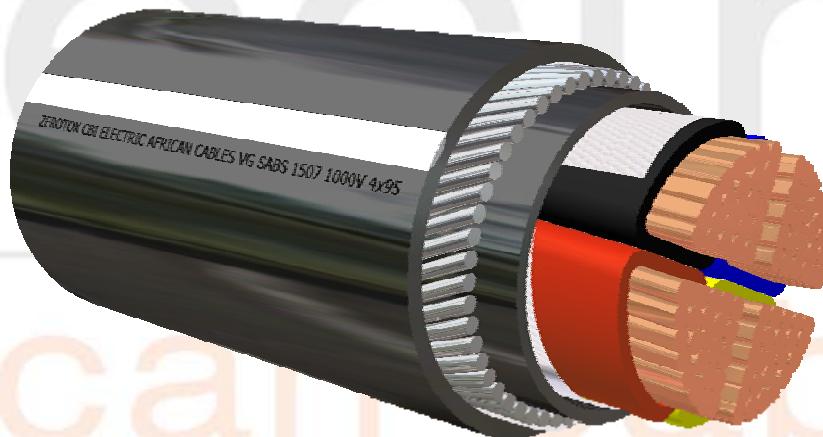
600/1000V

ZEROTOX SWA ZEROTOX (white stripe) ...313 Finish code

SANS 1507

Size code	...naaa...	4025	4035	4050	4070	4095	4120	4150	4185	4240	4300
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	6.0	7.0	8.0	9.5	11.5	12.5	14.0	15.5	18.0	20.0
Insulation diameter	mm app.	7.5	8.5	10.0	12.0	13.5	15.0	17.0	19.0	21.5	24.0
Bedding diameter	mm app.	20.0	22.5	25.5	30.0	34.0	37.5	42.5	47.0	53.0	58.5
Armour diameter	mm app.	23.5	25.5	28.5	34.0	38.0	41.5	47.5	52.0	58.0	63.5
Cable diameter	mm app.	27.5	30.0	33.0	39.0	43.0	47.0	53.0	58.5	64.5	70.5
Cable mass	kg/m app.	2.0	2.5	3.1	4.4	5.6	6.7	8.6	10.3	12.9	15.6
Gross mass (300 m)	kg app.	683	846	1048	1484	1971	2101	2890	3631	4411	5700
Bending radius	mm min.	413	450	495	585	645	705	795	878	968	1058
Current rating											
In ground	Amps	120	145	170	210	260	295	325	360	420	475
In ducts	Amps	99	120	140	175	210	240	265	305	350	395
In air	Amps	115	140	170	215	260	305	340	390	465	520
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	0.628	0.464	0.322	0.233	0.185	0.151	0.122	0.094	0.077
Reactance	Ω/km	0.075	0.073	0.073	0.069	0.066	0.066	0.066	0.066	0.066	0.066
Impedance	Ω/km	0.873	0.632	0.470	0.329	0.242	0.196	0.165	0.139	0.115	0.101
Short circuit ratings											
Symmetrical	kA (1sec)	3.6	5.0	6.8	9.9	13.8	17.4	21.4	26.8	35.3	44.3
Earth fault	kA (1sec)	3.6	4.0	4.5	6.7	7.4	8.3	11.6	13.0	14.6	16.1
(Three Phase) Volt Drop	mV/A/m	1.51	1.10	0.81	0.57	0.42	0.34	0.29	0.24	0.20	0.18

When ordering please quote: primary + size + finish code
e.g. F6CC 4025 313



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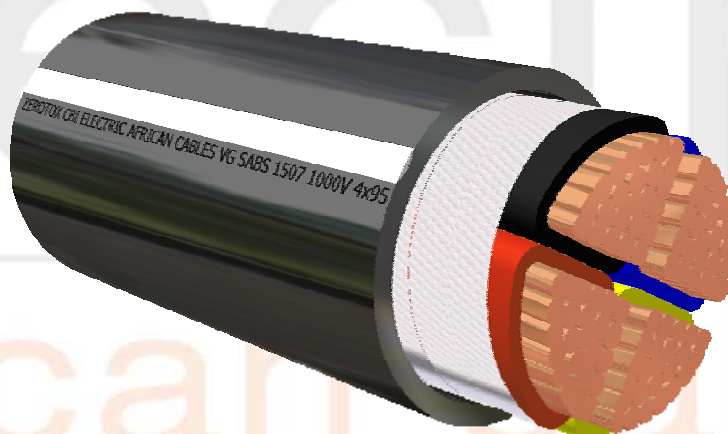


Only for use in applications protected from solar radiation
 NHL SFR F6CC... Primary group code
 ZEROTOX (white stripe) ...003 Finish code

Copper 4 Core
 600/1000V
 SANS 1507

Size code	...naaa...	4025	4035	4050	4070	4095	4120	4150	4185	4240	4300
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	6.0	7.0	8.0	9.5	11.0	12.5	14.0	15.5	18.0	20.0
Insulation diameter	mm app.	8.5	9.5	11.0	12.5	14.5	16.0	17.5	20.0	22.5	25.0
Cable diameter	mm app.	22.5	25.0	28.5	32.5	37.5	40.5	44.5	50.0	57.0	63.5
Cable mass	kg/m app.	1.2	1.6	2.2	3.0	4.1	5.0	6.1	7.7	10.1	12.6
Gross mass (300 m)	kg app.	410	555	743	1015	1394	1791	2121	2583	3530	4280
Bending radius	mm min.	338	375	428	488	563	608	668	750	855	953
Current rating											
In ground	Amps	120	145	170	210	260	295	325	360	420	475
In ducts	Amps	99	120	140	175	210	240	265	305	350	395
In air	Amps	115	140	170	215	260	305	340	390	465	520
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	0.061
ac @ 70°C	Ω/km max	0.870	0.627	0.464	0.322	0.233	0.185	0.151	0.121	0.094	0.077
Reactance	Ω/km	0.080	0.077	0.077	0.072	0.071	0.069	0.069	0.069	0.069	0.069
Impedance	Ω/km	0.874	0.632	0.470	0.330	0.244	0.197	0.166	0.139	0.117	0.103
Short circuit ratings											
Symmetrical	kA (1sec)	2.7	3.8	5.1	7.4	10.3	13.0	16.0	20.0	26.3	33.1
(Three Phase) Volt Drop	mV/A/m	1.51	1.09	0.81	0.57	0.42	0.34	0.29	0.24	0.20	0.18

When ordering please quote: primary + size + finish code
 e.g. F6CC 4025 003



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Only for use in applications protected from solar radiation.

XLPE
ZEROTOX SWA ZEROTOX (white stripe)

F6CC... Primary group code
...313 Finish code

Copper 7 Core
600/1000V
SANS 1507

Size code	...naaa...	7910	7915	7925	7004	7006	7010	7016
Conductor size	mm ² nom	1.0	1.5	2.5	4	6	10	16
Conductor diameter	mm app.	1.3	1.6	2.0	2.5	3.0	4.0	5.0
Insulation diameter	mm app.	2.7	3.0	3.5	4.0	4.5	5.5	6.5
Bedding diameter	mm app.	10.0	11.0	12.0	13.5	15.0	18.5	21.5
Armour diameter	mm app.	12.5	13.5	14.5	16.0	17.5	21.5	24.5
Cable diameter	mm app.	15.5	16.5	17.5	19	21	25	28
Cable mass	kg/m app.	0.47	0.53	0.64	0.80	0.99	1.54	2.03
Gross mass (500 m)	kg app.	263	294	348	442	535	826	1074
Bending radius	mm min.	155	165	175	190	210	250	280
Resistance								
dc @ 20°C	Ω/km max	18.10	12.10	7.41	4.61	3.08	1.83	1.15
ac @ 90°C	Ω/km max	21.66	14.48	8.87	5.52	3.69	2.19	1.38
Reactance								
Impedance	Ω/km	0.112	0.106	0.099	0.093	0.089	0.084	0.081
Short circuit ratings								
Symmetrical	kA (1sec)	0.14	0.21	0.33	0.54	0.80	1.35	2.15
Earth fault	kA (1sec)	1.15	1.24	1.37	1.56	1.74	2.70	3.08
(Three Phase) Volt Drop								
	mV/A/m	37.5	25.1	15.3	9.6	6.4	3.8	2.4

When ordering please quote: primary + size + finish code
e.g. F6CC 7925 313



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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



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

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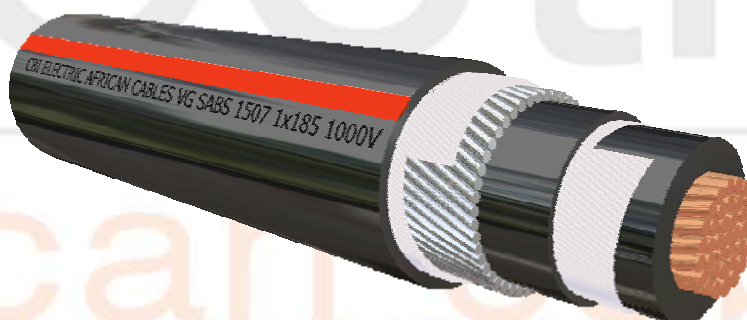
PVC
FRPVC AWA FRPVC (red stripe)
LHPVC AWA LHPVC (blue stripe)

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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Low Voltage PVC Cables

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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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 ² 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
Current rating												
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
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	0.061	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
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	0.873	0.632	0.469	0.329	0.241	0.196	0.164	0.137	0.114	0.099	0.089
Zero Sequence												
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
Short circuit ratings												
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

When ordering please quote: primary + size + finish code
 e.g. F4CC 3025 111

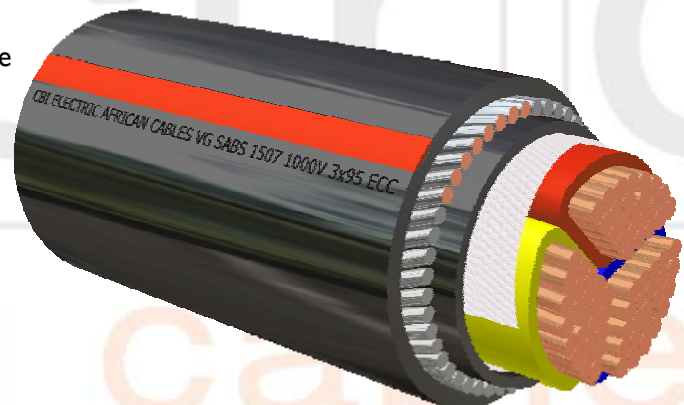


FRPVC F4CC... Primary group code
 FRPVC SWA / ECC FRPVC ...121 Finish code
 LHPVC SWA / ECC LHPVC ...222

Copper 3 Core
 600/1000V
 SANS 1507

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300	3400
Conductor size	mm ² 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.	1.72	2.08	2.61	3.34	4.65	5.54	6.61	8.48	10.58	12.77	15.72
Gross mass (500 m)	kg app.	919	1129	1395	1783	2538	2936	3526	4549	5689	7005	8478
Bending radius	mm min.	285	305	330	365	415	440	475	530	585	635	690
Current rating												
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
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	0.061	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
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	0.873	0.632	0.469	0.329	0.241	0.196	0.164	0.137	0.114	0.099	0.089
Zero Sequence												
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
Short circuit ratings												
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)	6.0	6.4	7.8	9.5	13.6	16.7	17.5	24.5	28.8	33.3	39.5
(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

When ordering please quote: primary + size + finish code
 e.g. F4CC 3025 121



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Low Voltage PVC Cables

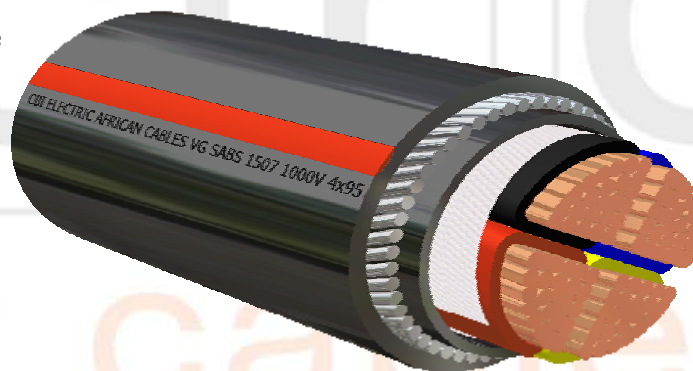
PVC
FR PVC SWA FR PVC (red stripe) F4CC... Primary group code
LH PVC SWA LH PVC (blue stripe) ...111 Finish code
...212

Copper 4 Core
600/1000 V
SANS 1507

Size code	...naaa...	4025	4035	4050	4070	4095	4120	4150	4185	4240	4300
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300
Conductor depth	mm app.	6.0	7.0	8.0	9.5	11.0	12.5	14.0	15.5	18.0	20.0
Insulation depth	mm app.	8.5	9.5	11.0	12.5	14.5	16.0	17.5	20.0	22.5	25.0
Bedding diameter	mm app.	21.5	24.0	27.5	31.5	36.0	40.0	44.0	49.0	55.0	61.0
Armour diameter	mm app.	25.0	27.0	30.5	35.5	40.0	45.0	49.0	54.0	60.0	66.0
Cable diameter	mm app.	28.5	31.0	35	40.0	45.0	50.0	54.0	59.5	66.5	72.5
Cable mass	kg/m app.	2.1	2.6	3.3	4.6	5.9	7.5	8.8	10.1	13.4	16.2
Gross mass (300 m)	kg app.	850	1000	1200	1675	2090	2675	3050	3850	4750	6000
Bending radius	mm min.	285	310	350	400	450	500	540	595	665	725
Current rating											
In ground	Amps	115	140	165	200	245	280	310	350	410	460
In ducts	Amps	95	115	140	170	205	235	265	300	345	385
In air	Amps	110	135	160	205	250	290	335	385	450	510
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	0.077
Reactance											
	Ω/km	0.080	0.077	0.077	0.072	0.071	0.069	0.070	0.069	0.069	0.069
Impedance											
	Ω/km	0.874	0.632	0.470	0.330	0.243	0.198	0.166	0.140	0.117	0.103
Capacitance											
	μF/km	1.231	1.414	1.411	1.662	1.709	1.892	1.872	1.892	1.962	2.018
Zero Sequence											
Resistance	Ω/km	7.049	6.284	5.469	3.798	3.265	2.365	2.127	1.930	1.709	1.535
Reactance	Ω/km	0.064	0.063	0.063	0.061	0.062	0.059	0.060	0.061	0.062	0.063
Short circuit ratings											
Symmetrical	kA (1sec)	3.2	4.5	6.0	8.7	12.1	15.2	18.8	23.5	30.9	38.8
Earth fault	kA (1sec)	4.2	4.6	5.2	7.4	8.6	11.8	13.1	14.4	16.1	17.8
(Three Phase) Volt Drop	mV/A/m	1.51	1.09	0.81	0.57	0.42	0.34	0.29	0.24	0.20	0.18

When ordering please quote: primary + size + finish code
e.g. F4CC 4025 111

* Earth fault rating limited by symmetrical fault rating



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Low Voltage PVC Cables

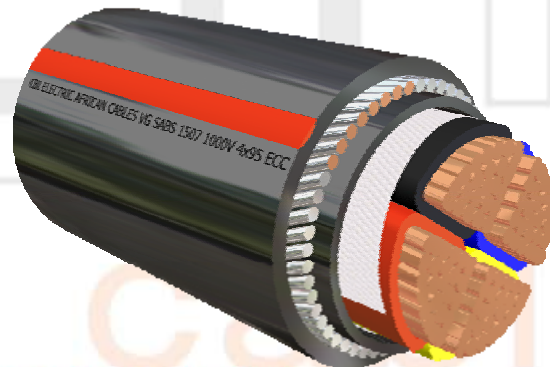
FRPVC
FRPVC SWA / ECC FRPVC
LHPVC SWA / ECC LHPVC

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

Copper 4 Core
600/1000V
SANS 1507

Size code	...naaa...	4025	4035	4050	4070	4095	4120	4150	4185	4240	4300	4400
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300	400
Number of wires		7	7	14	19	27	34	30	37	50	45	56
Diameter of wires	mm app.	2.22	2.6	2.22	2.2	2.22	2.22	2.6	2.6	2.6	3.08	3.08
Conductor diameter	mm app.	6	7	8	9.5	11	12.5	14	15.5	18	20	20
Insulation diameter	mm app.	8.5	9	11	12.5	14.5	16	17.5	19.5	22.5	25	25
Bedding diameter	mm app.	21.5	24	27	31.5	36	40	44	49	55	61	61
Armour wire diameter	mm app.	1.6	1.6	1.6	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.5
Armour diameter	mm app.	25	27	30.5	35.5	40	45	49	54	60	66	66
PVC Sheath thickness	mm app.	1.7	1.7	1.8	2.0	2.2	2.2	2.4	2.4	2.6	2.8	3.0
Cable diameter	mm app.	28.5	31	34.5	40	45	50	54	59.5	66	72.5	72.5
Cable mass	kg/m app.	2.11	2.59	3.29	4.6	5.97	7.58	8.96	10.8	13.6	16.43	21.07
Gross mass (300 m)	kg app.	690	834	1045	1437	1847	2330	2746	3298	4137	4987	6378
Bending radius	mm min.	285	310	345	400	450	500	540	595	660	725	725
Current rating												
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
Resistance												
dc @ 20°C	Ω/km max	0.73	0.52	0.39	0.27	0.19	0.15	0.12	0.1	0.08	0.06	0.06
ac @ 70°C	Ω/km max	0.87	0.63	0.46	0.32	0.23	0.18	0.15	0.12	0.09	0.08	0.08
Reactance	Ω/km	0.08	0.077	0.077	0.072	0.071	0.069	0.07	0.069	0.069	0.069	0.069
Capacitance	μF/km	1.231	1.414	1.411	1.662	1.709	1.892	1.872	1.892	1.962	2.018	2.097
Impedance	Ω/km	0.874	0.632	0.47	0.33	0.243	0.198	0.166	0.14	0.117	0.103	0.092
Zero Sequence												
Resistance	Ω/km	9.688	8.519	7.897	5.616	5.075	3.84	3.331	3.276	3.063	2.954	2.034
Reactance	Ω/km	0.064	0.063	0.065	0.061	0.062	0.059	0.06	0.061	0.062	0.063	0.061
Short circuit ratings												
Symmetrical	kA (1sec)	2.6	3.6	4.9	7.1	9.8	12.3	15.2	19.1	25	31.4	40.2
Earth fault	kA (1sec)	6.6	7.1	8.6	12.4	15	21.3	22.6	26.7	31.3	36.4	49.2
(Three Phase) Volt Drop	mV/A/M	1.514	1.095	0.814	0.572	0.421	0.343	0.288	0.242	0.203	0.178	0.159

When ordering please quote: primary + size + finish code
e.g. F4CC 4025 121



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

A member of the REUNERT Group



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

F4CC... Primary group code
...001 Finish code
...002

Copper 4 Core
600/1000 V
SANS 1507

Size code	...naaa...	4025	4035	4050	4070	4095	4120	4150	4185	4240	4300
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300
Conductor depth	mm app.	6.0	7.0	8.0	9.5	11.5	12.5	14.0	15.5	18.0	20.0
Insulation depth	mm app.	8.5	9.0	11.0	12.5	14.5	16.0	17.5	20.0	22.5	25.0
Cable diameter	mm app.	23.0	25.5	29.0	32.5	38.0	41.5	46.0	51.0	57.5	64.0
Cable mass	kg/m app.	1.2	1.6	2.2	3.0	4.1	5.1	6.4	7.9	10.3	12.8
Gross mass (300 m)	kg app.	410	555	745	1015	1395	1820	2150	4409	3530	4280
Bending radius	mm min.	184	204	232	260	304	332	368	408	460	512
Current rating											
In ground	Amps	115	140	165	200	245	280	310	350	410	460
In ducts	Amps	95	115	140	170	205	235	265	300	345	385
In air	Amps	110	135	160	205	250	290	335	385	450	510
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	0.321	0.232	0.185	0.150	0.121	0.094	0.077
Reactance											
Capacitance	μF/km	1.231	1.414	1.411	1.662	1.709	1.892	1.872	1.892	1.962	2.018
Impedance	Ω/km	0.874	0.632	0.470	0.330	0.243	0.198	0.166	0.140	0.117	0.103
Short circuit ratings											
Symmetrical	kA (1sec)	3.2	4.4	6.0	8.7	12.1	15.2	18.8	23.5	30.9	38.8
(Three Phase) Volt Drop	mV/A/m	1.51	1.09	0.81	0.57	0.42	0.34	0.29	0.24	0.20	0.18

When ordering please quote: primary + size + finish code
e.g. F4CC 4025 001



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

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Low Voltage PVC Cables

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

F4DC... Primary group code
...141 Finish code
...242

Copper 1 Core
1900/3300V
SANS 1507

Size code	...naaa...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
Conductor size	mm ² nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.5	10.0	12.0	13.5	15.0	16.5	19.0	21.5	24.0	27.5	30.5	35.0	39.0
Insulation diameter	mm app.	13.0	14.5	16.5	18.0	19.5	21.0	23.5	26.5	29.5	33.5	36.5	40.0	45.5
Bedding diameter	mm app.	14.5	16.5	19.0	20.5	22.0	23.5	26.0	29.0	32.5	36.0	39.5	43.5	48.5
Armour diameter	mm app.	18.0	19.5	22.0	24.5	25.0	27.0	29.0	33.0	36.5	40.0	44.5	48.5	53.5
Cable diameter	mm app.	22.0	23.5	26.5	28.0	29.5	31.5	33.5	38.0	41.5	46.0	50.5	54.0	59.5
Cable mass	kg/m app.	1.1	1.4	1.8	2.0	2.4	2.8	3.4	4.5	5.4	6.6	8.4	10.5	12.5
Gross mass (500 m)	kg app.	415	525	685	815	965	1160	1470	16620	18400	20150	22400	4585	5625
Bending radius	mm min.	440	470	530	560	590	630	670	580	650	720	790	1080	1190
Current rating	(trefoil)													
In ground	Amps	181	222	265	300	336	377	431	482	532	584	637	666	699
In duct	Amps	178	214	249	276	305	336	373	408	434	463	498	518	548
In air	Amps	183	229	284	327	371	426	500	571	649	729	817	881	949
Resistance														
dc @ 20°C	Ω/km max	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060	0.047	0.037	0.028	0.022	0.018
ac @ 70°C	Ω/km max	0.464	0.322	0.232	0.185	0.150	0.121	0.094	0.076	0.062	0.051	0.042	0.028	0.023
Reactance	Ω/km	0.092	0.086	0.082	0.080	0.078	0.077	0.075	0.074	0.073	0.073	0.072	0.071	0.070
Impedance	Ω/km	0.473	0.333	0.246	0.201	0.169	0.143	0.120	0.107	0.096	0.089	0.083	0.076	0.074
Short circuit ratings														
Symmetrical	kA (1sec)	6.0	8.7	12.1	15.2	18.8	23.5	30.9	38.8	49.6	63.7	82.4	105.5	132.5
Earth fault	kA (1sec)	5.1	5.6	6.5	6.9	7.4	8.0	8.7	12.4	13.6	15.3	20.7	22.9	25.6
(Three Phase) Volt Drop	mV/A/m	0.82	0.58	0.43	0.35	0.29	0.25	0.21	0.19	0.17	0.15	0.14	0.13	0.13

When ordering please quote: primary + size + finish code
e.g. F4DC 1050 141



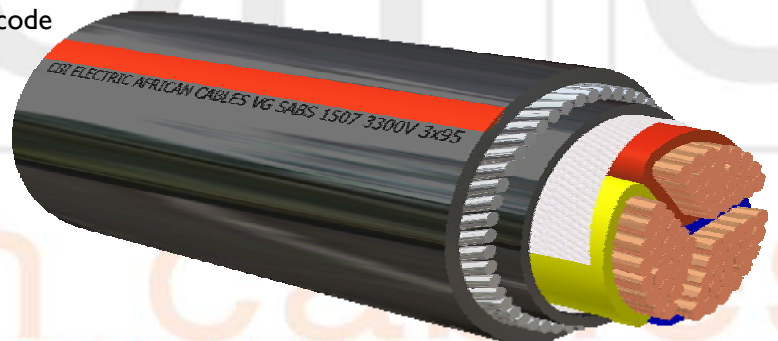
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HGPVC
FRPVC SWA FRPVC (red stripe) F4DC... Primary group code
LHPVC SWA LHPVC (blue stripe) ...111 Finish code
...212

Copper 3 Core
1900/3300V
SANS 1507

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	25*	35*	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	6.1	7.5	7.0	8.5	10.0	11.0	12.5	14.0	16.0	18.0
Insulation diameter	mm app.	11.0	12.0	11.5	13.0	14.5	15.5	17.0	18.5	20.5	22.5
Bedding diameter	mm app.	26.0	28.5	27.0	30.5	33.5	36.0	39.5	42.5	47.0	52.0
Armour diameter	mm app.	29.0	32.5	30.0	34.5	37.5	40.0	44.5	47.5	52.0	57.0
Cable diameter	mm app.	33.0	37.0	34.0	38.5	42.0	44.5	49.5	52.5	58.0	63.0
Cable mass	kg/m app.	2.10	2.80	2.85	3.90	4.85	5.70	7.10	8.35	10.30	12.50
Gross mass (500 m)	kg app.	1210	1560	1085	2110	2585	3010	3710	4485	5625	6725
Bending radius	mm min.	330	370	340	385	420	445	495	525	580	630
Current rating											
In ground	Amps	110	130	160	195	235	265	295	340	385	430
In air	Amps	100	125	155	190	230	275	310	355	420	475
Resistance											
dc @ 20°C	Ω/km max	0.73	0.52	0.39	0.27	0.19	0.15	0.12	0.10	0.08	0.06
ac @ 70°C	Ω/km max	0.87	0.63	0.46	0.32	0.23	0.19	0.15	0.12	0.09	0.08
Reactance											
Impedance	Ω/km	0.100	0.096	0.081	0.075	0.070	0.068	0.067	0.065	0.063	0.062
Zero Sequence											
Resistance	Ω/km	4.777	3.417	4.275	2.973	2.681	2.457	1.818	1.660	1.497	1.365
Reactance	Ω/km	0.082	0.076	0.081	0.074	0.072	0.070	0.066	0.065	0.064	0.065
Short circuit ratings											
Symmetrical	kA (1sec)	3.2	4.5	6.0	8.7	12.1	15.2	18.8	23.5	30.9	38.3
Earth fault	kA (1sec)	4.9	6.8	5.1	7.3	7.9	8.6	11.6	12.6	13.9	15.1
(Three Phase) Volt Drop	mV/A/m	1.52	1.10	0.82	0.57	0.42	0.34	0.29	0.24	0.20	0.17

*Circular Conductors
When ordering please quote: primary + size + finish code
e.g. F4DC 3035 111



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HGPVC	F4EC...	Primary group code	Copper 3 Core
FRPVC SWA FRPVC(red stripe)	...111	Finish code	3800/6600V
LHPVC SWA LHPVC(blue stripe)	...212		IEC 60502

Size code	...naaa...	*3025	*3035	*3050	3070	3095	3120	3150	3185	3240
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240
Conductor diameter	mm app.	6.5	7.5	8.5	8.5	10.0	11.0	12.5	14.0	16.0
Insulation diameter	mm app.	13.5	14.5	15.5	15.5	17.0	18.0	19.5	21.0	23.0
Bedding diameter	mm app.	30.5	32.5	35.0	35.0	38.5	41.5	43.5	47.0	52.0
Armour diameter	mm app.	34.5	36.5	40.0	39.0	43.5	46.0	49.0	52.0	57.0
Cable diameter	mm app.	39	41	45	43.5	49	51	54.5	58	63
Cable mass	kg/m app.	3.05	3.50	4.45	4.60	6.10	7.00	8.00	9.50	11.40
Gross mass (300 m)	kg app.	1075	1210	1495	1540	1990	2260	2560	3200	3880
Bending radius	mm min.	390	410	450	435	490	510	545	580	630
Current rating										
In ground	Amps	110	130	160	195	235	265	295	340	385
In air	Amps	100	125	155	190	230	275	310	355	420
Resistance										
dc @ 20°C	Ω/km max	0.73	0.52	0.39	0.27	0.19	0.15	0.12	0.10	0.08
ac @ 70°C	Ω/km max	0.87	0.63	0.46	0.32	0.23	0.18	0.15	0.12	0.09
Zero Sequence Resistance	Ω/km	0.095	0.091	0.085	2.617	1.889	1.747	1.628	1.498	1.362
Zero Sequence Reactance	Ω/km	3.433	3.014	2.240	0.088	0.082	0.080	0.078	0.076	0.074
Reactance	Ω/km	0.113	0.108	0.104	0.085	0.080	0.077	0.075	0.072	0.070
Impedance	Ω/km	0.877	0.637	0.475	0.332	0.245	0.200	0.168	0.141	0.116
Short circuit ratings										
Symmetrical	kA (1sec)	3.2	4.4	6.0	8.7	12.1	15.2	18.8	23.5	30.9
Earth fault	kA (1sec)	7.3	7.9	10.6	8.4	11.6	12.6	13.1	14.1	15.4
(Three Phase) Volt Drop	mV/A/m	1.52	1.10	0.82	0.58	0.42	0.35	0.29	0.24	0.20

* Circular conductors
 When ordering please quote: primary + size + finish code
 e.g. F4EC 3035 111



Low Voltage PVC Control Cables

PVC	F4CC... Primary group code	Copper 5 Core
FRPVC SWA FRPVC (red stripe)	...111 Finish code	600/1000V
LHPVC SWA LHPVC (blue stripe)	...212	SANS 1507

Size code	...naaa...	5915	5925	5004	5006	5010	5016	5025	5035
Conductor size	mm ² nom	1.5	2.5	4	6	10	16	25	35
Conductor diameter	mm app.	1.6	2	2.5	3	4	5	6	7.5
Insulation diameter	mm app.	3.5	4	4.5	5.5	6	7	9	10
Bedding diameter	mm app.	10.5	12	14.5	16	19	21.5	26.5	29.5
Armour diameter	mm app.	13	14.5	17	18.5	21.5	24	29.5	33.5
Cable diameter	mm app.	16	17.5	20	21.5	25	27.5	33	37.5
Cable mass	kg/km app.	0.55	0.67	0.86	1.05	1.45	1.85	2.8	3.8
Gross mass (500 m)	kg app.	305	363	470	565	765	965	1485	1995
Bending radius	mm min.	160	175	200	215	250	275	330	375
Resistance									
dc @ 20°C	Ω/km max	12.1	7.41	4.61	3.08	1.83	1.15	0.727	0.524
ac @ 70°C	Ω/km max	14.48	8.87	5.52	3.69	2.19	1.38	0.87	0.627
Reactance									
	Ω/km	0.11	0.103	0.103	0.097	0.091	0.087	0.086	0.083
Impedance									
	Ω/km	14.48	8.867	5.517	3.687	2.192	1.379	0.874	0.633
(Three Phase) Volt Drop	mV/A/m	25.08	15.36	9.56	6.39	3.8	2.39	1.51	1.1

When ordering please quote: primary + size + finish code
 e.g. F4CC 5915 111

* Earth fault rating limited by symmetrical fault rating



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A member of the REUNERT Group



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

F4CC... Primary group code
...111 Finish code
...212

Copper 7 Core
600/1000 V
SANS 1507

Size code	...naaa...	7910	7915	7925	7004	7006	7010
Conductor size	mm ² nom	1	1.5	2.5	4	6	10
Conductor diameter	mm app.	1.3	1.7	2.2	2.5	3	4
Insulation diameter	mm app.	3	3.5	4	5	5.5	6
Bedding diameter	mm app.	10.5	12	13	15	17.5	20
Armour diameter	mm app.	13	14	15	17.5	20	22.5
Cable diameter	mm app.	16	17	18	21	23.5	26
Cable mass	kg/m app.	0.53	0.6	0.7	0.94	1.25	1.6
Gross mass (500 m)	kg app.	310	355	420	550	685	880
Bending radius	mm min.	160	170	180	210	235	260
Resistance							
dc @ 20°C	Ω/km max	18.1	12.1	7.41	4.61	3.08	1.83
ac @ 70°C	Ω/km max	21.66	14.48	8.87	5.52	3.69	2.19
Reactance							
	Ω/km	0.115	0.107	0.103	0.103	0.097	0.091
Capacitance							
	μF/km	0.281	0.315	0.375	0.376	0.44	0.532
Impedance							
	Ω/km	21.657	14.478	8.867	5.517	3.687	2.192
Short circuit ratings							
Symmetrical	kA (1sec)	0.13	0.19	0.32	0.51	0.76	1.28
Earth fault	kA (1sec)	1.68*	1.80*	2.05*	2.36*	3.56*	4.07*
(Single Phase) Volt Drop							
	mV/A/m	43.31	28.96	17.73	11.03	7.37	4.38

When ordering please quote: primary + size + finish code

e.g. F4CC 7010 111



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

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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 7 Core
 600/1000 V
 SANS 1507

Size code	...naaa...	7910	7915	7925	7004	7006	7010
Conductor size	mm ² nom	1	1.5	2.5	4	6	10
Conductor diameter	mm app.	1.3	1.7	2.2	2.5	3	4
Insulation diameter	mm app.	3	3.5	4	5	5.5	6
Bedding diameter	mm app.	10.5	12	13	15	17.5	20
Armour diameter	mm app.	13	14	15	17.5	20	22.5
Cable diameter	mm app.	16	17	18	21	23.5	26
Cable mass	kg/m app.	0.53	0.6	0.7	0.94	1.25	1.6
Gross mass (500 m)	kg app.	310	355	420	550	685	880
Bending radius	mm min.	160	170	180	210	235	260
Resistance							
dc @ 20°C	Ω/km max	18.1	12.1	7.41	4.61	3.08	1.83
ac @ 70°C	Ω/km max	21.66	14.48	8.87	5.52	3.69	2.19
Reactance	Ω/km	0.116	0.11	0.103	0.103	0.097	0.091
Capacitance	μF/km	0.275	0.315	0.375	0.376	0.44	0.532
Impedance	Ω/km	21.657	14.478	8.867	5.517	3.687	2.192
Short circuit ratings							
Symmetrical	kA (1sec)	0.13	0.19	0.32	0.51	0.76	1.28
Earth fault	kA (1sec)	1.74*	1.85*	1.96*	2.46*	2.91*	3.31*
(Single Phase) Volt Drop	mV/A/m	36.2	24.2	14.82	9.22	6.16	3.66

When ordering please quote: primary + size + finish code

e.g. F4CC 7010 121

* Earth fault rating limited by symmetrical fault rating



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

A member of the REUNERT Group



PVC
FRPVC (red stripe)
LHPVC (blue stripe)

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

Primary group code
Finish code

Copper 7 Core
600/1000 V
SANS 1507

Size code	...naaa...	7910	7915	7925	7004	7006	7010
Conductor size	mm ² nom	1	1.5	2.5	4	6	10
Conductor diameter	mm app.	1.3	1.7	2.2	2.5	3	4
Insulation diameter	mm app.	2.9	3.5	4	5	5.5	6
Cable diameter	mm app.	12	13	15	17	19	21.5
Cable mass	kg/m app.	0.2	0.25	0.35	0.5	0.65	1
Gross mass (500 m)	kg app.	130	155	215	305	385	560
Bending radius	mm min.	96	104	120	136	152	172
Resistance							
dc @ 20°C	Ω/km max	18.1	12.1	7.41	4.61	3.08	1.83
ac @ 70°C	Ω/km max	21.657	14.478	8.867	5.517	3.687	2.192
Reactance	Ω/km	0.116	0.11	0.103	0.103	0.097	0.091
Capacitance	μF/km	0.275	0.315	0.375	0.376	0.44	0.532
Impedance	Ω/km	21.657	14.478	8.867	5.517	3.687	2.192
(Single Phase) Volt Drop	mV/A/m	43.31	28.96	17.73	11.03	7.37	4.38

When ordering please quote: primary + size + finish code
e.g. F4CC 7910 001



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Low Voltage PVC Control Cables

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

F4CC... Primary group code
...111 Finish code
...212

Copper 12 Core
600/1000 V
SANS 1507

Size code	...naaa...	A910	A915	A925	A004
Conductor size	mm ² nom	1	1.5	2.5	4
Conductor diameter	mm app.	1.3	1.6	2	2.5
Insulation diameter	mm app.	3	3.5	4	4.5
Bedding diameter	mm app.	13.5	15	16.5	21
Armour diameter	mm app.	16.5	17.5	19	24
Cable diameter	mm app.	19.5	20.5	22.5	27
Cable mass	kg/m app.	0.8	0.9	1.1	1.5
Gross mass (500 m)	kg app.	440	510	660	910
Bending radius	mm min.	195	205	235	280
Resistance					
dc @ 20°C	Ω/km max	18.1	12.1	7.41	4.61
ac @ 70°C	Ω/km max	21.66	14.48	8.87	5.52
Reactance					
	Ω/km	0.116	0.11	0.103	0.103
Capacitance					
	μF/km	0.275	0.315	0.375	0.376
Impedance					
	Ω/km	21.657	14.478	8.867	5.517
(Single Phase) Volt Drop					
	mV/A/m	43.31	28.96	17.73	11.03

When ordering please quote: primary + size + finish code
e.g. F4CC A910 111



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

A member of the REUNERT Group



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

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

Primary group code
Finish code

Copper 12 Core
600/1000 V
SANS 1507

Size code	...naaa...	A910	A915	A925	A004
Conductor size	mm ² nom	1	1.5	2.5	4
Conductor diameter	mm app.	1.3	1.6	2	2.5
Insulation diameter	mm app.	3	3.5	4	4.5
Bedding diameter	mm app.	13.5	15	16.5	21
Armour diameter	mm app.	16.5	17.5	19	24
Cable diameter	mm app.	19.5	20.5	22.5	27
Cable mass	kg/m app.	0.8	0.9	1.1	1.5
Gross mass (500 m)	kg app.	440	510	660	910
Bending radius	mm min.	195	205	235	280
Resistance					
dc @ 20°C	Ω/km max	18.1	12.1	7.41	4.61
ac @ 70°C	Ω/km max	21.66	14.48	8.87	5.52
Reactance					
	Ω/km	0.116	0.11	0.103	0.103
Capacitance					
	μF/km	0.275	0.315	0.375	0.376
Impedance					
	Ω/km	21.657	14.48	8.867	5.517
Short circuit ratings					
Symmetrical	kA (1sec)	0.129	0.193	0.315	0.51
Earth fault	kA (1sec)	2.19*	2.31*	2.53*	3.26*
(Single Phase) Volt Drop					
	mV/A/m	43.32	28.96	17.74	11.04

When ordering please quote: primary + size + finish code

e.g. F4CC A910 121

* Earth fault rating limited by symmetrical fault rating



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

A member of the REUNERT Group



Low Voltage PVC Control Cables

PVC
FRPVC (red stripe)
LHPVC (blue stripe)

F4CC... Primary group code
...001 Finish code
...002

Copper 12 Core
600/1000 V
SANS 1507

Size code	...naaa...	A910	A915	A925	A004
Conductor size	mm ² nom	1	1.5	2.5	4
Conductor diameter	mm app.	1.3	1.6	2	2.5
Insulation diameter	mm app.	2.9	3.2	3.7	4.5
Cable diameter	mm app.	16	17	18.5	22.5
Cable mass	kg/m app.	0.35	0.4	0.55	0.8
Gross mass (500 m)	kg app.	215	260	335	460
Bending radius	mm min.	156	164	188	224
Resistance					
dc @ 20°C	Ω/km max	18.1	12.1	7.41	4.61
ac @ 70°C	Ω/km max	21.66	14.48	8.87	5.52
Reactance					
	Ω/km	0.116	0.11	0.103	0.103
Capacitance					
	μF/km	0.275	0.315	0.375	0.376
Impedance					
	Ω/km	21.66	14.48	8.867	5.517
(Single Phase) Volt Drop	mV/A/m	43.31	28.96	17.73	11.03

When ordering please quote: primary + size + finish code
e.g. F4CC A910 001



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

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PVC F4CC... Primary group code
 FRPVC SWA/ECC FRPVC (red stripe) ...121 Finish code
 LHPVC SWA/ECC LHPVC (blue stripe) ...222

Copper 19 Core
 600/1000 V
 SANS 1507

Size code	...naaa...	B910	B915	B925	B004
Conductor size	mm ² nom	1	1.5	2.5	4
Conductor diameter	mm app.	1.3	1.6	2	2.5
Insulation diameter	mm app.	3	3.5	4	4.5
Bedding diameter	mm app.	16	18.5	21	25
Armour diameter	mm app.	18.5	21	24	28
Cable diameter	mm app.	22	24.5	26.5	31.5
Cable mass	kg/m app.	0.95	1.2	1.5	2.2
Gross mass (500 m)	kg app.	515	660	910	1160
Bending radius	mm min.	220	245	275	315
Resistance					
dc @ 20°C	Ω/km max	18.1	12.1	7.41	4.61
ac @ 70°C	Ω/km max	21.66	14.48	8.87	5.52
Reactance					
	Ω/km	0.116	0.11	0.103	0.103
Capacitance					
	μF/km	0.275	0.315	0.375	0.376
Impedance					
	Ω/km	21.657	14.478	8.867	5.517
Short circuit ratings					
Symmetrical	kA (1sec)	0.13	0.19	0.31	0.51
Earth fault	kA (1sec)	2.47*	2.75*	3.03*	4.79*
(Single Phase) Volt Drop	mV/A/m	43.31	28.96	17.73	11.03

When ordering please quote: primary + size + finish code
 e.g. F4CC B925 121

* Earth fault rating limited by symmetrical fault rating



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PVC
FRPVC (red stripe)
LHPVC (blue stripe)

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

Primary group code
Finish code

Copper 19 Core
600/1000 V
SANS 1507

Size code	...naaa...	B910	B915	B925	B004
Conductor size	mm ² nom	1	1.5	2.5	4
Conductor diameter	mm app.	1.3	1.6	2	2.5
Insulation diameter	mm app.	3	3.5	4	4.5
Cable diameter	mm app.	18	19.5	22	27
Cable mass	kg/m app.	0.5	0.6	0.8	1.3
Gross mass (500 m)	kg app.	290	360	460	710
Bending radius	mm min.	144	156	176	216
Resistance					
dc @ 20°C	Ω/km max	18.1	12.1	7.41	4.61
ac @ 70°C	Ω/km max	21.66	14.48	8.87	5.52
Reactance					
	Ω/km	0.116	0.11	0.103	0.103
Capacitance					
	μF/km	0.275	0.315	0.375	0.376
Impedance					
	Ω/km	21.66	14.48	8.867	5.517
(Single Phase) Volt Drop	mV/A/m	43.31	28.96	17.73	11.03

When ordering please quote: primary + size + finish code
e.g. F4CC B925 001



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

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PVC	F4CC...	Primary group code	Copper 27 Core
FR PVC SWA/ECC FR PVC (red stripe)	...121	Finish code	600/1000 V
LH PVC SWA/ECC LH PVC (blue stripe)	...222		SANS 1507

Size code	...naaa...	C910	C915	C925
Conductor size	mm ² nom	1	1.5	2.5
Conductor diameter	mm app.	1.3	1.6	2
Insulation diameter	mm app.	2.9	3.2	3.7
Bedding diameter	mm app.	20.5	22	25
Armour diameter	mm app.	23.5	25.5	28
Cable diameter	mm app.	27	29	32
Cable mass	kg/m app.	1.3	1.6	2.1
Gross mass (500 m)	kg app.	805	1090	1345
Bending radius	mm min.	270	290	320
Resistance				
dc @ 20°C	Ω/km max	18.1	12.1	7.41
ac @ 70°C	Ω/km max	21.66	14.48	8.87
Reactance				
	Ω/km	0.116	0.11	0.103
Capacitance				
	μF/km	0.275	0.315	0.375
Impedance				
	Ω/km	21.66	14.48	8.87
Short circuit ratings				
Symmetrical	kA (1sec)	0.13	0.19	0.31
Earth fault	kA (1sec)	3.09*	3.32*	4.79*
(Single Phase) Volt Drop	mV/A/m	43.31	28.96	17.73

When ordering please quote: primary + size + finish code
 e.g. F4CC C925 121

* Earth fault rating limited by symmetrical fault rating



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Low Voltage PVC Bell Cables

PVC
FRPVC (red stripe)
LHPVC (blue stripe)

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

Primary group code
Finish code

Copper 27 Core
600/1000 V
SANS 1507

Size code	...naaa...	C910	C915	C925
Conductor size	mm ² nom	1	1.5	2.5
Conductor diameter	mm app.	1.3	1.6	2
Insulation diameter	mm app.	2.9	3.2	3.7
Cable diameter	mm app.	21.5	23.5	26.5
Cable mass	kg/m app.	0.47	0.61	0.9
Gross mass (500 m)	kg app.	370	485	655
Bending radius	mm min.	215	235	265
Resistance				
dc @ 20°C	Ω/km max	18.1	12.1	7.41
ac @ 70°C	Ω/km max	21.66	14.48	8.87
Reactance				
	Ω/km	0.116	0.11	0.103
Capacitance				
	μF/km	0.275	0.315	0.375
Impedance				
	Ω/km	21.657	14.478	8.867
(Single Phase) Volt Drop	mV/A/m	43.31	28.96	17.73

When ordering please quote: primary + size + finish code
e.g. F4CC C925 001



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

F4CC...
...111
...212

Primary group code
Finish code

Copper 37 Core
600/1000 V
SANS 1507

Size code	...naaa...	D910	D915	D925
Conductor size	mm ² nom	1.0	1.5	2.5
Conductor diameter	mm app.	1.3	1.6	2.0
Insulation diameter	mm app.	2.9	3.2	3.7
Bedding diameter	mm app.	23.0	25.0	28.5
Armour diameter	mm app.	26.0	28.0	32.5
Cable diameter	mm app.	29.5	32.0	36.5
Cable mass	kg/m app.	1.7	2.0	2.9
Gross mass (500 m)	kg app.	950	1125	1550
Bending radius	mm min.	295	320	365
Resistance				
dc @ 20°C	Ω/km max	18.10	12.10	7.41
ac @ 70°C	Ω/km max	21.66	14.48	8.87
Reactance				
	Ω/km	0.116	0.110	0.103
Capacitance				
	μF/km	0.275	0.315	0.375
Impedance				
	Ω/km	21.657	14.478	8.867
Short circuit ratings				
Symmetrical	kA (1sec)	0.13	0.19	0.31
Earth fault	kA (1sec)	3.87*	4.12*	5.91*
(Single Phase) Volt Drop	mV/A/m	43.31	28.96	17.73

When ordering please quote: primary + size + finish code

e.g. F4CC D925 111

* Earth fault rating limited by symmetrical fault rating



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

A member of the REUNERT Group



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

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

Copper 37 Core
600/1000 V
SANS 1507

Size code	...naaa...	D910	D915	D925
Conductor size	mm ² nom	1.0	1.5	2.5
Conductor diameter	mm app.	1.3	1.6	2.0
Insulation diameter	mm app.	2.9	3.2	3.7
Bedding diameter	mm app.	23.0	25.0	28.5
Armour diameter	mm app.	26.0	28.0	32.5
Cable diameter	mm app.	29.5	32.0	36.5
Cable mass	kg/m app.	1.7	2.0	2.9
Gross mass (500 m)	kg app.	950	1125	1550
Bending radius	mm min.	295	320	365
Resistance				
dc @ 20°C	Ω/km max	18.10	12.10	7.41
ac @ 70°C	Ω/km max	21.66	14.48	8.87
Reactance				
	Ω/km	0.116	0.110	0.103
Capacitance				
	μF/km	0.275	0.315	0.375
Impedance				
	Ω/km	21.657	14.478	8.867
Short circuit ratings				
Symmetrical	kA (1sec)	0.13	0.19	0.31
Earth fault	kA (1sec)	4.51*	4.79*	6.24*
(Single Phase) Volt Drop	mV/A/m	43.31	28.96	17.73

When ordering please quote: primary + size + finish code
e.g. F4CC D925 121

* Earth fault rating limited by symmetrical fault rating



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

A member of the REUNERT Group



PVC
FRPVC (red stripe)
LHPVC (red stripe)

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

Primary group code
Finish code

Copper 37 Core
600/1000V
SANS 1507

Size code	...naaa...	D910	D915	D925
Conductor size	mm ² nom	1.0	1.5	2.5
Conductor diameter	mm app.	1.3	1.6	2.1
Insulation diameter	mm app.	2.9	3.2	3.7
Cable diameter	mm app.	24.5	26.5	29.5
Cable mass	kg/m app.	0.65	1.90	1.20
Gross mass (500 m)	kg app.	485	640	845
Bending radius	mm min.	196	212	236
Resistance				
dc @ 20°C	Ω/km max	18.10	12.10	7.41
ac @ 70°C	Ω/km max	21.66	14.48	8.87
Reactance	Ω/km	0.116	0.110	0.103
Capacitance	μF/km	0.275	0.315	0.375
Impedance	Ω/km	21.657	14.478	8.867
(Single Phase) Volt Drop	mV/A/m	43.31	28.96	17.73

When ordering please quote: primary + size + finish code
e.g. F4CC D925 001



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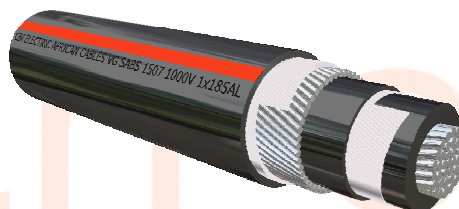
XLPE
FRPVC AWA FRPVC (red stripe)
LHFRPVC AWA LHFRPVC (blue stripe)

F2CA... Primary group code
...141 Finish code
...242

Aluminium I Core
600/1000V
SANS 1507

Size code	...naaa...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
Conductor size	mm ² nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.5	10.0	12.0	14.0	14.5	16.0	18.5	21.0	23.5	26.5	30.0	34.5	39.0
Insulation diameter	mm app.	10.5	12.0	14.0	16.0	17.5	19.5	22.0	24.5	27.5	31.0	35.0	40.0	45.0
Bedding diameter	mm app.	12.5	14.0	16.0	19.0	20.5	22.0	25.0	27.0	30.5	34.5	38.0	44.0	49.0
Armour diameter	mm app.	16.0	17.5	19.5	22.5	23.5	25.5	28.0	30.5	34.5	38.5	42.0	49.0	54.0
Cable diameter	mm app.	20.0	21.5	23.5	26.5	28.0	30.0	32.5	35.5	39.5	43.5	48.0	54.5	60.0
Cable mass	kg/m app.	0.7	0.8	1.0	1.2	1.3	1.5	1.8	2.1	2.8	3.3	3.97	5.2	6.2
Gross mass (500 m)	kg app.	385	447	524	639	704	831	1003	1211	1540	1827	2284	2897	3392
Bending radius	mm min.	200	215	235	265	280	300	325	355	395	435	480	545	600
Current rating (trefoil)														
In ground	Amps	192	238	292	329	364	412	487	555	560	572	582	588	601
In ducts	Amps	163	202	249	279	310	350	414	472	476	486	495	500	511
In air	Amps	176	220	274	313	348	397	476	548	560	579	597	611	633
Resistance														
dc @ 20°C	Ω/km max	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.078	0.061	0.047	0.037	0.029
ac @ 90°C	Ω/km max	0.822	0.569	0.411	0.325	0.265	0.212	0.163	0.131	0.103	0.082	0.066	0.048	0.039
Reactance	Ω/km	0.079	0.073	0.071	0.073	0.072	0.070	0.071	0.069	0.069	0.068	0.069	0.070	0.069
Impedance	Ω/km	0.826	0.573	0.417	0.334	0.275	0.223	0.177	0.148	0.124	0.107	0.096	0.085	0.079
Zero Sequence														
Resistance	Ω/km	0.340	0.286	0.267	0.287	0.269	0.259	0.261	0.248	0.242	0.237	0.246	0.252	0.248
Reactance	Ω/km	0.649	0.569	0.504	0.469	0.441	0.408	0.389	0.359	0.304	0.290	0.288	0.273	0.265
Short circuit ratings														
Symmetrical	kA (1sec)	2.7	3.8	5.3	6.7	8.3	10.4	13.6	17.0	21.9	28.2	36.3	46.4	58.5
Earth fault	kA (1sec)	3.4	3.8	4.4	5.1	5.3	5.9	6.5	7.2	10.1	11.2	12.5	17.8	19.9
(Three Phase) Volt Drop	mV/A/m	1.43	0.99	0.72	0.58	0.48	0.39	0.31	0.26	0.21	0.19	0.17	0.15	0.14

When ordering please quote: primary + size + finish code
e.g. F2CA 1050 141



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XLPE
FRPVC (red stripe)
LHPVC (blue stripe)

F2CA... Primary group code
...001... Finish code
...002...

Aluminium I Core
600/1000V
SANS 1507

Size code	...naaa...	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
Conductor size	mm ² nom	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	10.0	12.0	13.5	14.0	16.0	18.5	20.5	23.0	26.5	30.0	34.0	39.0
Insulation diameter	mm app.	12.0	14.0	16.0	18.0	19.0	22.0	24.0	27.5	31.0	35.0	40.0	45.0
Cable diameter	mm app.	16.0	18.0	20.0	21.5	23.5	26.5	29	32	36.0	40.0	45.5	51.0
Cable mass	kg/m app.	0.4	0.5	0.6	0.7	0.8	1.0	1.2	1.5	1.9	2.4	3.0	3.7
Gross mass (500 m)	kg app.	208	288	342	393	468	617	731	909	1127	1415	1735	2858
Bending radius	mm min.	240	280	320	360	380	440	480	550	620	700	800	980
Current rating	(trefoil)												
In air	Amps	206	253	296	343	395	471	544	640	730	834	945	1052
Resistance													
dc @ 20°C	Ω/km max	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.0778	0.060	0.047	0.037	0.029
ac @ 90°C	Ω/km max	0.569	0.411	0.325	0.265	0.212	0.162	0.131	0.103	0.082	0.066	0.048	0.039
Reactance	Ω/km	0.073	0.071	0.073	0.072	0.070	0.071	0.068	0.069	0.068	0.069	0.070	0.069
Impedance	Ω/km	0.573	0.417	0.334	0.275	0.223	0.177	0.148	0.124	0.107	0.096	0.085	0.079
Short circuit ratings													
Symmetrical	kA (1sec)	5.9	8.2	10.3	12.7	15.9	20.9	26.2	33.6	43.2	55.8	71.3	89.9
(Three Phase) Volt Drop	mV/A/m	0.99	0.72	0.58	0.48	0.39	0.31	0.26	0.21	0.19	0.17	0.15	0.14

When ordering please quote: primary + size + finish code
e.g. F2CA 1150 001



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A member of the REUNERT Group



XLPE
FRPVC (red stripe)
LHPVC (blue stripe)

F2CA... Primary group code
...001 Finish code
...002

Aluminium 3 Core
600/1000V
SANS 1507

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	5.0	6.0	7.0	8.5	10.0	11.0	12.5	14.0	16.0	18.0
Insulation diameter	mm app.	7.0	8.0	9.0	11.0	12.5	13.5	15.5	17.0	19.5	21.5
Cable diameter	mm app.	19	20.5	23	27.5	30.5	33.5	37.5	41.5	46.5	51.5
Cable mass meter	kg/m app.	0.42	0.52	0.66	0.93	1.19	1.45	1.79	2.20	2.81	3.46
Gross mass (300 m)	kg app.	152	183	225	318	396	491	596	719	903	1097
Bending radius	mm min.	152	164	184	220	244	268	300	332	372	412
Current rating											
In air	Amps	88	105	125	155	185	215	240	275	320	360
In ducts	Amps	100	125	150	190	235	270	310	360	425	490
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
ac @ 90°C	Ω/km max	1.539	1.113	0.822	0.569	0.411	0.326	0.266	0.212	0.163	0.132
Reactance											
Impedance	Ω/km	0.070	0.070	0.069	0.065	0.062	0.061	0.063	0.064	0.062	0.062
Short circuit ratings											
Symmetrical	kA (1sec)	2.2	3.0	4.1	5.9	8.2	10.3	12.7	16.0	20.9	26.2
(Three Phase) Volt Drop	mV/A/m	2.67	1.93	1.43	0.99	0.72	0.57	0.47	0.38	0.30	0.25

When ordering please quote: primary + size + finish code
e.g. F2CA 3025 001



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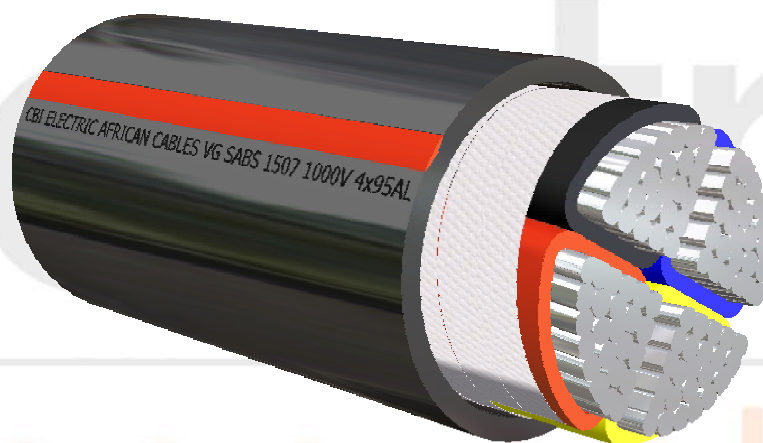


XLPE F2CA... Primary group code
 FRPVC (red stripe) ...001 Finish code
 LHPVC (blue stripe) ...002

Aluminium 4 Core
 600/1000V SA NS 15
 07

Size code	...naaa ...	4025	4035	4050	4070	4095	4120	4150	4185	4240	4300
Conductor size	mmI nom	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	6.0	7.0	8.0	9.5	11.0	12.5	14.0	16.0	18.0	20.0
Insulation diameter	mm app.	7.5	9.0	10.0	12.0	13.5	15.0	17.0	19.0	21.5	24.0
Cable diameter	mm app.	21.5	24	27	31.5	35.5	39	43.5	49	55	61
Cable mass	kg/m app.	0.55	0.65	0.88	1.18	15.26	1.88	2.28	2.85	3.65	4.50
Gross mass (500 m)	kg app.	358	400	521	684	7842	1211	1448	1746	2366	2904
Bending radius	mm min.	86	192	216	252	284	312	348	392	440	488
Current rating											
In ducts	Amps	88	105	125	155	185	215	240	275	320	360
In air	Amps	100	125	150	190	235	270	310	360	425	490
Resistance											
dc @ 20°C	Ω/km max	1.20	0.87	0.64	0.44	0.32	0.25	0.21	0.16	0.13	0.10
ac @ 90°C	Ω/km max	1.54	1.11	0.82	0.57	0.41	0.33	0.27	0.21	0.16	0.13
Reactance											
Impedance	Ω/km	0.075	0.073	0.073	0.069	0.066	0.066	0.067	0.067	0.066	0.066
Short circuit ratings											
Symmetrical (Three Phase)Volt Drop	kA (1sec) mV/A/M	2.2 2.669	3.0 1.933	4.1 1.429	5.9 0.992	8.2 0.721	10.3 0.575	12.7 0.475	16.0 0.385	20.9 0.305	26.2 0.255

When ordering please quote: primary + size + finish code e.g.
 F2CA 4025 001



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A member of the REUNERT Group



XLPE	F2CC...	Primary group code	Copper 5 Core
FRPVC (red stripe)	...001	Finish code	600/1000V
LHPVC (blue stripe)	...002		SANS 1507

Size code	...naaa...	5915	5925	5004	5006	5010	5016	5025	5035	5095
Conductor size	mm ² nom	1.5	2.5	4	6	10	16	25	35	95
Conductor diameter	mm app.	1.6	2.0	2.5	3.5	4.0	5.0	6.0	7.5	12.0
Insulation diameter	mm app.	3.0	3.5	4.0	4.5	5.5	6.5	8.0	9.0	14.0
Cable diameter	mm app.	12.0	13.0	14.5	16.0	18.5	21.0	26.0	29.0	43.0
Cable mass meter	kg/m app.	0.26	0.33	0.45	0.59	0.84	1.21	1.83	2.41	1.52
Gross mass (500 m)	kg app.	123	155	208	270	391	563	857	1134	636
Bending radius	mm min.	96	104	116	128	148	168	208	232	344
Resistance										
dc @ 20°C	Ω/km max	12.100	7.410	4.610	3.080	1.830	1.150	0.727	0.524	0.193
ac @ 90°C	Ω/km max	14.478	8.867	5.517	3.687	2.192	1.378	0.927	0.669	0.248
Reactance	Ω/km	0.106	0.099	0.093	0.089	0.084	0.081	0.081	0.079	0.072
Impedance	Ω/km	15.429	9.449	5.879	3.928	2.335	1.469	0.931	0.673	0.258
Short circuit ratings										
Symmetrical	kA (1sec)	0.2	0.3	0.5	0.8	1.4	2.2	3.4	4.7	12.8
(Three Phase) Volt Drop	mV/A/m	26.72	16.37	10.18	6.80	4.04	2.54	1.61	1.17	0.45

When ordering please quote: primary + size + finish code
e.g. F2CC 5025 001



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XLPE
FRPVC SWA FRPVC (red stripe)
LHPVC SWA LHPVC (blue stripe)

F2CC... Primary group code
...111 Finish code
...212

Copper 7 Core
600/1000V SANS
1507

Size code	...naaa ...	7910	7915	7925	7004	7006	7010	7016
Conductor size	mmI nom	1	1.5	2.5	4	6	10	16
Conductor diameter	mm app.	1.3	1.6	2.0	2.5	3.0	4.0	5.0
Insulation diameter	mm app.	2.7	3.0	3.5	4.0	4.5	5.5	6.5
Bedding diameter	mm app.	10.0	11.0	12.0	13.5	15.0	18.5	21.5
Armour diameter	mm app.	12.5	13.5	14.5	16.0	17.5	21.5	24.5
Cable diameter	mm app.	15.5	16.5	17.5	19	21	25	28
Cable mass	kg/m app.	0.47	0.53	0.64	0.80	0.99	1.54	2.03
Gross mass (500 m)	kg app.	263	294	348	442	535	826	1074
Bending radius	mm min.	155	165	175	190	210	250	280
Resistance								
dc @ 20°C	Ω/km max	18.10	12.10	7.41	4.61	3.08	1.83	1.15
ac @ 90°C	Ω/km max	21.66	14.48	8.87	5.52	3.69	2.19	1.38
Reactance								
	Ω/km	0.112	0.106	0.099	0.093	0.089	0.084	0.081
Impedance								
	Ω/km	21.657	14.478	8.860	5.517	3.686	2.191	1.379
Short circuit ratings								
Symmetrical	kA (1sec)	0.14	0.21	0.33	0.54	0.80	1.35	2.15
Earth fault	kA (1sec)	1.15	1.24	1.37	1.56	1.74	2.70	3.08
(Three Phase) Volt Drop								
	mV/A/m	37.5	25.1	15.3	9.6	6.4	3.8	2.4

When ordering please quote: primary + size + finish code e.g.
F2CC 7925 111



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Copper 12 Core
600/1000V
SANS 1507

XLPE
FRPVC SWA FRPVC (red stripe)
LHPVC SWA LHPVC (blue stripe)

F2CC...
...111
...212

Primary group code
Finish code

Size code	...naaa...	A910	A915	A925	A004
Conductor size	mm ² nom	1.0	1.5	2.5	4
Conductor diameter	mm app.	1.3	1.6	2.0	2.5
Insulation diameter	mm app.	2.7	3.0	3.5	4.0
Bedding diameter	mm app.	13.0	14.0	16.0	19.0
Armour diameter	mm app.	15.5	17.0	18.5	22.0
Cable diameter	mm app.	19.0	20.0	22.0	26.0
Cable mass	kg/m app.	0.66	0.75	0.92	1.38
Gross mass (500 m)	kg app.	368	431	460	750
Bending radius	mm min.	190	200	220	260
Resistance					
dc @ 20°C	Ω/km max	18.10	12.10	7.41	4.61
ac @ 70°C	Ω/km max	21.66	14.48	8.87	5.52
Reactance					
Impedance	Ω/km	0.112	0.106	0.099	0.093
Short circuit ratings					
Symmetrical	kA (1sec)	0.14	0.21	0.33	0.54
Earth fault	kA (1sec)	1.51	1.60	1.79	2.78
(Single Phase) Volt Drop	mV/A/m	43.31	28.96	17.73	11.03

When ordering please quote: primary + size + finish code
e.g. F2CC A925 111



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Copper 19 Core
600/1000V
SANS 1507

XLPE F2CC... Primary group code
FRPVC SWA FRPVC (red stripe) ...111 Finish code
LHPVC SWA LHPVC (blue stripe) ...212

Size code	...naaa...	B910	B915	B925	B004
Conductor size	mm ² nom	1.0	1.5	2.5	4
Conductor diameter	mm app.	1.3	1.6	2.0	2.5
Insulation diameter	mm app.	2.7	3.0	3.5	4.0
Bedding diameter	mm app.	15.5	16.5	19.5	22.0
Armour diameter	mm app.	18.0	17.0	23.0	25.5
Cable diameter	mm app.	21.0	22.5	26.5	29.0
Cable mass	kg/m app.	0.82	0.96	1.42	1.82
Gross mass (500 m)	kg app.	450	536	713	969
Bending radius	mm min.	210	225	265	290
Resistance					
dc @ 20°C	Ω/km max	18.10	12.10	7.41	4.61
ac @ 70°C	Ω/km max	21.66	14.48	8.87	5.52
Reactance					
	Ω/km	0.112	0.106	0.099	0.093
Impedance					
	Ω/km	21.657	14.478	8.867	5.517
Short circuit ratings					
Symmetrical	kA (1sec)	0.14	0.21	0.33	0.54
Earth fault	kA (1sec)	1.74	1.88	2.85	3.23
(Single Phase) Volt Drop	mV/A/m	43.31	28.96	17.73	11.03

When ordering please quote: primary + size + finish code
e.g. F2CC B925 111



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XLPE	F6CA...	Primary group code	Aluminium I Core
ZEROTOX AWA ZEROTOX (white stripe)	...343	Finish code	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.	23.5	26.5	30.0	34.5	40.0
Insulation diameter	mm app.	27.5	31.0	35.0	40.0	45.0
Bedding diameter	mm app.	30.5	34.5	38.0	44.0	49.0
Armour diameter	mm app.	34.5	38.5	42.0	49.0	54.0
Cable diameter	mm app.	39.5	43.5	48.0	54.5	60.0
Cable mass	kg/m app.	2.2	2.7	3.3	4.2	5.1
Gross mass (500 m)	kg app.	1259	1506	1923	2396	2832
Bending radius	mm min.	593	653	720	818	900
Current rating	(trefoil)					
In ground	Amps	428	479	528	584	632
In ducts	Amps	370	405	435	471	495
In air	Amps	497	568	642	715	808
Resistance						
dc @ 20°C	Ω/km max	0.078	0.061	0.047	0.037	0.029
ac @ 70°C	Ω/km max	0.097	0.078	0.062	0.045	0.036
Reactance	Ω/km	0.069	0.068	0.069	0.069	0.069
Impedance	Ω/km	0.119	0.103	0.093	0.082	0.079
Short circuit ratings						
Symmetrical	kA (1sec)	36.1	46.5	60.0	76.7	96.7
Earth fault	kA (1sec)	11.5	12.8	14.3	20.4	22.7
(Three Phase) Volt Drop	mV/A/m	0.21	0.18	0.16	0.14	0.13
(Single Phase) Volt Drop	mV/A/m	0.24	0.21	0.19	0.16	0.16

When ordering please quote: primary + size + finish code
e.g. F6CA 1400 343



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Low Voltage NHL SFR Cables

Only for use in applications protected from solar radiation.

Aluminium 1 Core

NHL SFR F6CA... Primary group code
 ZEROTOX (white stripe) ...003 Finish code

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.	23.0	26.5	30.0	34.5	39.0
Insulation diameter	mm app.	28.5	32.5	35.5	40.0	45.0
Cable diameter	mm app.	32.5	37.0	40.0	44.5	50.5
Cable mass	kg/m app.	1.6	2.1	2.5	3.1	3.9
Gross mass (500 m)	kg app.	1090	1340	1540	1840	2240
Bending radius	mm min.	488	555	600	668	758
Current rating	(trefoil)					
In ground	Amps	437	498	559	634	709
In ducts	Amps	377	421	461	511	556
In air	Amps	507	590	680	776	907
Resistance						
dc @ 20°C	Ω/km max	0.078	0.061	0.047	0.037	0.029
ac @ 70°C	Ω/km max	0.097	0.077	0.062	0.045	0.037
Reactance	Ω/km	0.072	0.071	0.071	0.071	0.070
Impedance	Ω/km	0.121	0.105	0.094	0.084	0.079
Short circuit ratings						
Symmetrical	kA (1sec)	27.0	34.7	44.8	57.3	72.3
(Three Phase) Volt Drop	mV/A/m	0.21	0.18	0.16	0.15	0.14
(Single Phase) Volt Drop	mV/A/m	0.24	0.21	0.19	0.17	0.16

When ordering please quote: primary + size + finish code
 e.g. F6CA 1400 003



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XLPE

F6CA... Primary group code

Aluminium 4 Core

ZEROTOX, SWA, ZEROTOX (white stripe) ...313 Finish code

600/1000V

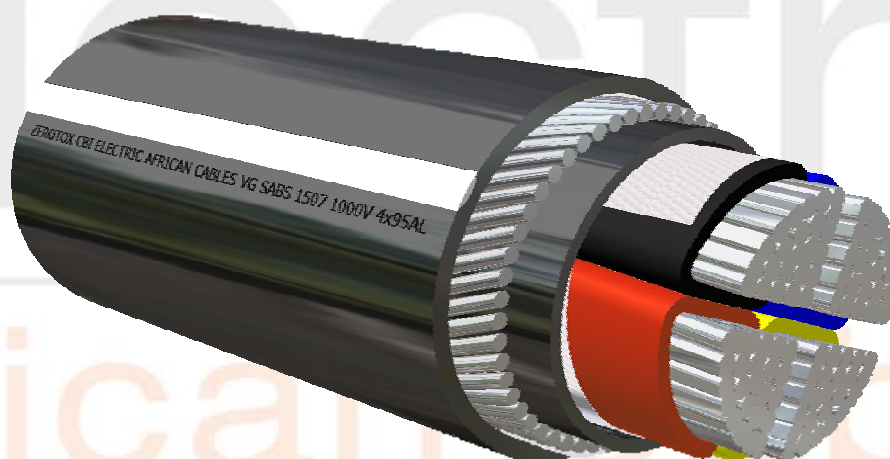
SANS 1507

Size code	...naaa...	4025	4035	4050	4070	4095	4120	4150	4185	4240	4300
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	6.0	7.0	8.0	9.5	11.0	12.5	14.0	15.5	18.0	20.0
Insulation diameter	mm app.	7.5	8.5	10.0	12.0	13.5	15.0	17.0	19.0	21.5	24.0
Bedding diameter	mm app.	20.0	22.5	25.5	30.0	34.0	37.5	42.5	47.0	53.0	58.5
Armour diameter	mm app.	23.5	25.5	28.5	34.0	38.0	41.5	47.5	52.0	58.0	63.5
Cable diameter	mm app.	27.5	30.0	33.0	39.0	43.0	47.0	53.0	58.5	64.5	70.5
Cable mass	kg/m app.	1.4	1.6	1.9	2.7	3.3	3.8	5.0	5.8	7.0	8.1
Gross mass (300 m)	kg app.	503	576	685	973	1268	1233	1800	2290	2631	3463
Bending radius	mm min.	413	450	495	585	645	705	795	878	968	1058
Current rating											
In ground	Amps	94	110	135	165	195	225	250	285	325	370
In ducts	Amps	75	90	105	135	160	185	205	235	275	310
In air	Amps	84	105	125	160	200	225	260	305	360	415
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
ac @ 70°C	Ω/km max	1.442	1.043	0.771	0.533	0.385	0.305	0.249	0.199	0.153	0.123
Reactance	Ω/km	0.075	0.073	0.073	0.069	0.066	0.066	0.067	0.067	0.066	0.066
Impedance	Ω/km	1.444	1.046	0.774	0.537	0.391	0.312	0.258	0.210	0.167	0.140
Short circuit ratings											
Symmetrical	kA (1sec)	2.3	3.2	4.3	6.3	8.8	11.1	13.6	17.1	22.5	28.1
Earth fault	kA (1sec)	3.6*	4.0*	4.5*	6.7*	7.4	8.3	11.6	13.0	14.6	16.1
(Three Phase) Volt Drop	mV/A/M	2.50	1.81	1.34	0.93	0.68	0.54	0.45	0.36	0.29	0.24

When ordering please quote: primary + size + finish code

e.g. F6CA 4025 313

*Earth fault rating limited by symmetrical fault rating



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Only for use in applications protected from solar radiation.
 NHLSFR F6CA... Primary group code
 ZEROTOX (white stripe) ...003 Finish code

Aluminium 4 Core
 600/1000V
 SANS 1507

Size code	...naaa...	4025	4035	4050	4070	4095	4120	4150	4185	4240	4300
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	6.0	7.0	8.0	9.5	11.0	12.5	14.0	15.5	18.0	20.0
Insulation diameter	mm app.	8.5	9.5	11.0	12.5	14.5	16.0	17.5	20.0	22.5	25.0
Cable diameter	mm app.	22.5	25.0	28.5	32.5	37.5	40.5	44.5	50.0	57.0	63.5
Cable mass	kg/m app.	0.6	0.8	1.0	1.3	1.8	2.1	2.6	3.2	4.1	5.1
Gross mass (300 m)	kg app.	263	315	383	486	754	903	1090	1281	1771	2184
Bending radius	mm min.	338	375	428	488	563	608	668	750	855	953
Current rating											
In ground	Amps	94	110	135	165	195	225	250	285	325	370
In ducts	Amps	75	90	105	135	160	185	205	235	275	310
In air	Amps	84	105	125	160	200	225	260	305	360	415
Resistance											
dc @ 20°C	Ω/km max	1.200	0.868	0.641	0.443	0.320	0.253	0.206	1.640	0.125	0.100
ac @ 70°C	Ω/km max	1.442	1.043	0.771	0.533	0.385	0.305	0.249	0.199	0.152	0.123
Reactance	Ω/km	0.080	0.077	0.077	0.072	0.071	0.069	0.069	0.069	0.069	0.069
Impedance	Ω/km	1.444	1.046	0.775	0.538	0.391	0.313	0.258	0.211	0.167	0.141
Short circuit ratings											
Symmetrical	kA (1sec)	1.7	2.4	3.2	4.7	6.5	8.3	10.2	12.8	16.8	21.0
(Three Phase)Volt Drop	mV/A/m	2.50	1.81	1.34	0.93	0.68	0.54	0.45	0.36	0.29	0.24

When ordering please quote: primary + size + finish code
 e.g. F6CA 4025 003



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Low Voltage NHL SFR Control Cables

Only for use in applications protected from solar radiation.

XLPE F6CC... Primary group code
 ZEROTOX SWA ZEROTOX (white stripe) ...313 Finish code

Copper 2 Core
 600/1000V
 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.	1.6	2.0	2.5	3.0	4.0	5.0	4.0	5.0	5.5
Insulation diameter	mm app.	3.0	3.5	4.0	4.5	5.5	6.5	6.0	7.0	7.5
Bedding diameter	mm app.	8.0	9.0	10.0	11.0	12.5	14.5	14.0	15.5	17.0
Armour diameter	mm app.	10.5	11.5	12.5	13.5	15.0	17.0	17.0	18.5	20.5
Cable diameter	mm app.	13.5	14.5	15.5	16.5	18.5	20.0	20.0	22.0	24.0
Cable mass	kg/m app.	0.43	0.48	0.56	0.65	0.82	1.03	1.11	1.34	1.64
Gross mass (500 m)	kg app.	226	256	302	347	441	551	579	690	880
Bending radius	mm min.	135	145	155	165	185	200	210	220	240
Current rating										
In ground	Amps	36	46	61	76	100	130	145	180	223
In air	Amps	30	40	53	68	92	120	131	160	195
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 @ 90°C	Ω/km max	15.43	9.45	5.88	3.93	2.33	1.47	0.93	0.67	0.49
Reactance										
Impedance	Ω/km	0.106	0.099	0.093	0.089	0.084	0.081	0.059	0.057	0.056
Zero sequence										
Resistance	Ω/km	22.06	16.50	12.36	10.05	8.17	6.66	5.53	4.99	4.31
Reactance	Ω/km	0.18	0.16	0.15	0.14	0.13	0.12	0.06	0.06	0.06
Short circuit ratings										
Symmetrical	kA (1sec)	0.2	0.3	0.5	0.8	1.4	2.2	3.2	4.4	6.4
Earth fault	kA (1sec)	1.2	1.3	1.4	1.5	1.7	2.0	2.4	2.5	3.0
(Single Phase) Volt Drop	mV/A/m	30.86	18.90	11.76	7.86	4.67	2.94	1.86	1.34	1.00

*D Shaped Conductors.

When ordering please quote: primary + size + finish code

e.g. F6CC 2925 313



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Low Voltage NHL SFR Bell Cables

Only for use in applications protected from solar radiation.

NHL SFR F6CC... Primary group code
 ZEROTOX (white stripe) ...003 Finish code

Copper 2 Core
 600/1000 V
 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.	1.5	2.0	2.5	3.0	3.5	5.0
Insulation diameter	mm app.	3.5	4.0	4.5	5.0	6.0	7.0
Cable diameter	mm app.	10.0	11.0	13.0	14.0	16.0	18.0
Cable mass	kg/m app.	0.14	0.18	0.25	0.32	0.58	0.60
Gross mass (500 m)	kg app.	186	204	237	274	405	415
Bending radius	mm min.	150	165	195	210	240	270
Current rating							
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
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	11.15	6.83	4.25	2.84	1.69	1.06
Reactance							
Impedance	Ω/km	0.106	0.100	0.099	0.094	0.088	0.083
Short circuit ratings							
Symmetrical	kA (1sec)	0.2	0.3	0.5	0.8	1.3	2.0
(Three Phase) Volt Drop	mV/A/m	19.31	11.83	7.36	4.92	2.92	1.84

When ordering please quote: primary + size + finish code
 e.g. F6CC 2915 003



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XLPE F6CC... Primary group code
 ZEROTOX SWA ZEROTOX (white stripe) ...313 Finish code

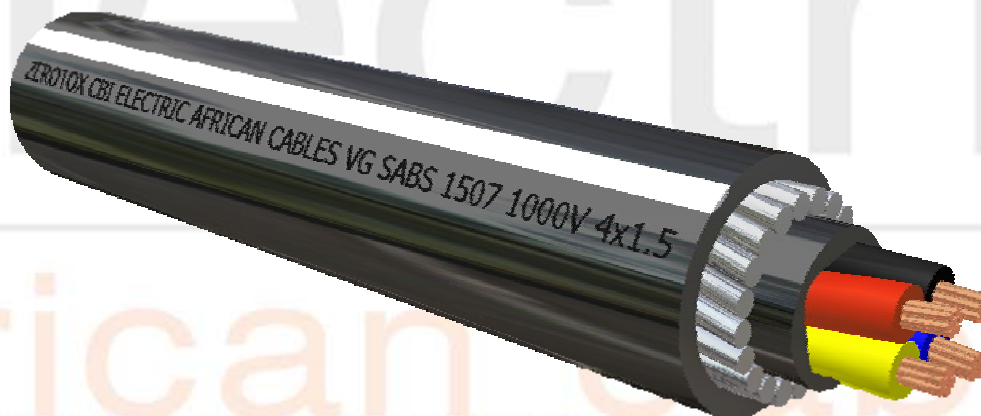
Copper 4 Core
 600/1000V
 SANS 1507

Size code	...naaa...	4915	4925	4004	4006	4010	4016
Conductor size	mm ² nom	1.5	2.5	4	6	10	16
Conductor diameter	mm app.	1.6	2.0	2.5	3.1	3.9	4.8
Insulation diameter	mm app.	3.0	3.5	3.9	4.5	5.3	6.2
Bedding diameter	mm app.	9.0	10.0	11.0	12.5	14.5	16.5
Armour diameter	mm app.	11.5	12.5	13.5	15.0	17.0	19.0
Cable diameter	mm app.	14.5	15.5	16.5	18.0	20.0	22.5
Cable mass	kg/m app.	0.45	0.53	0.63	0.75	1.00	1.30
Gross mass (500 m)	kg app.	252	292	355	415	557	710
Bending radius	mm min.	218	233	248	270	300	338
Current rating							
In ground	Amps	25	33	43	55	74	94
In duct	Amps	20	27	36	44	60	76
In air	Amps	21	27	37	48	66	88
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							
Impedance	Ω/km	0.101	0.097	0.090	0.086	0.081	0.077
Short circuit ratings							
Symmetrical	kA (1sec)	0.2	0.3	0.5	0.8	1.4	2.3
Earth fault	kA (1sec)	1.4*	1.6*	1.7*	1.9*	2.3*	2.6*
(Three Phase) Volt Drop	mV/A/M	25.08	15.36	9.56	6.38	3.80	2.39

When ordering please quote: primary + size + finish code

e.g. F6CC 4915 313

*Earth fault rating limited by symmetrical fault rating



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Only for use in applications protected from solar radiation.

NHL SFR F6CC... Primary group code
ZEROTOX (white stripe) ...003 Finish code

Copper 4 Core
600/1000V
SANS 1507

Size code	...naaa...	4915	4925	4004	4006	4010	4016
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	3.9	4.8
Insulation diameter	mm app.	3.2	3.7	4.5	5.0	5.9	6.8
Cable diameter	mm app.	11.0	12.0	14.5	16.0	18.0	20.0
Cable mass	kg/m app.	0.16	0.21	0.31	0.40	0.57	0.82
Gross mass (500 m)	kg app.	195	220	271	317	400	525
Bending radius	mm min.	165	180	218	240	270	300
Current rating							
In ground	Amps	25	33	43	55	74	94
In ducts	Amps	20	27	36	44	60	76
In air	Amps	21	27	37	48	66	88
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							
Impedance	Ω/km	0.106	0.100	0.099	0.094	0.088	0.083
Short circuit ratings							
Symmetrical	kA (1sec)	0.2	0.3	0.5	0.8	1.4	2.3
(Three Phase) Volt Drop	mV/A/M	25.08	15.36	9.56	6.38	3.79	2.39

When ordering please quote: primary + size + finish code
e.g. F6CC 4915 003



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Low Voltage NHL SFR Control Cables

Only for use in applications protected from solar radiation.

XLPE	F6CC...	Primary group code	Copper 5 Core
ZEROTOX SWA ZEROTOX (white stripe)	...313	Finish code	600/1000V SANS 1507

Size code	...naaa...	5915	5925	5004	5006	5010	5016
Conductor size	mm ² nom	1.5	2.5	4	6	10	16
Conductor diameter	mm app.	1.6	2.0	2.5	3.1	3.9	5.0
Insulation diameter	mm app.	3.0	3.5	4.0	4.5	5.5	6.5
Bedding diameter	mm app.	10.0	11.5	12.5	14.0	16.0	19.5
Armour diameter	mm app.	12.5	14.0	15.0	16.5	18.5	22.0
Cable diameter	mm app.	15.5	17	18	20.0	22.0	25.5
Cable mass	kg/m app.	0.49	0.60	0.71	0.89	1.18	1.66
Gross mass (500 m)	kg app.	275	330	396	485	650	890
Bending radius	mm min.	233	255	270	300	330	383
Current rating							
In ground	Amps	25	33	43	55	74	94
In duct	Amps	20	27	36	44	60	76
In air	Amps	21	27	37	48	66	88
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							
Impedance	Ω/km	0.104	0.097	0.092	0.088	0.084	0.081
Zero Sequence Resistance	Ω/km	24.650	18.229	14.731	12.045	9.674	7.687
Zero Sequence Reactance	Ω/km	0.146	0.133	0.125	0.117	0.107	0.107
Short circuit ratings							
Symmetrical	kA (1sec)	0.22	0.36	0.58	0.87	1.46	2.32
Earth fault	kA (1sec)	1.50*	1.74*	1.86*	2.10*	2.40*	2.88*
(Three Phase) Volt Drop	mV/A/M	25.08	15.36	9.56	6.38	3.80	2.39

When ordering please quote: primary + size + finish code

e.g. F6CC 5915 313

* Earth fault rating limited by symmetrical fault rating



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Aluminium 3 Core
6600/6600V
Table 16
SANS 97

PILC/PILAC
FRPVC DTA FRPVC (red stripe) FIEA...
LHPVC DTA LHPVC (blue stripe) ...16191
...16292

Primary group code
Table + Finish code

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm nom	5.9	7	8.3	8.3	9.8	11	12.2	13.7	15.7	17.6
Insulated depth	mm nom	10.4	11.5	12.8	12.8	14.3	15.5	16.7	18.2	20.2	22.1
Diameter over lead sheath	mm nom	30.5	32.5	36	35.5	38.5	41.5	44	47.5	52	56.5
Bedding diameter	mm nom	33	35.5	38.5	38.5	42	44.5	48	51	55.5	60
Size of armour wires	mm	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Overall diameter	mm nom	40.5	43.5	46.5	47	50.5	53.5	57	60.5	65.5	70.5
Normal drum length	m	500	500	500	300	300	300	300	300	300	300
Cable mass	kg/m app.	3.8	4.2	4.8	5.2	6	6.8	7.7	8.7	10.2	11.8
Gross mass (drum length)	kg app.	2150	2350	2650	2060	2300	2540	2810	3110	3560	4040
Bending radius	mm min.	486	522	558	564	606	642	684	726	786	846
Current rating											
In ground	Amps	89	110	130	155	190	215	240	275	320	365
In ducts	Amps	75	90	110	130	160	180	205	235	270	310
In air	Amps	89	110	130	160	200	230	260	300	360	415
Positive sequence											
Resistance dc @ 20°C	Ω/km max	1.2	0.87	0.64	0.44	0.32	0.25	0.21	0.16	0.13	0.1
ac @ 80°C	Ω /km max	1.49	1.08	0.8	0.55	0.4	0.32	0.26	0.21	0.16	0.13
Reactance	Ω /km	0.1	0.1	0.09	0.08	0.07	0.07	0.07	0.07	0.06	0.06
Impedance at 80°C	Ω /km	1.49	1.08	0.8	0.56	0.4	0.32	0.27	0.22	0.17	0.14
Zero sequence											
Resistance	Ω /km	6.58	5.78	4.79	4.37	3.68	3.2	2.82	2.46	2.12	1.77
Reactance	Ω /km	0.14	0.13	0.13	0.13	0.12	0.12	0.11	0.11	0.1	0.1
Impedance	Ω /km	6.58	5.78	4.8	4.37	3.68	3.2	2.82	2.46	2.12	1.77
Short circuit ratings											
Symmetrical	kA (1sec)	2.3	3.2	4.4	6.4	8.8	11.1	13.7	17.2	22.5	28.2
Earth fault(Symmetrical limit)	kA (1sec)	3.4(2.3)	3.6(3.2)	4.3	4.6	5.3	6	6.8	7.7	8.9	10.6

* Circular Conductor
When ordering please quote: primary + size + table + finish code
e.g. FIEA312016191



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Aluminium 3 Core
6600/6600V
Table 24
SANS 97

PILC/PILAC
FRPVC DTA FRPVC (red stripe) ...24191
LHPVC DTA FRPVC (blue stripe) ...24292

FIEA... Primary group code
...24191 Table + Finish code
...24292

Size code	...naaa...	3016	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	16*	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm app.	5.2	5.9	7.0	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm app.	10.2	10.9	12.0	13.3	13.3	14.8	16.0	17.2	18.7	20.7	22.6
Diameter over lead sheath	mm app.	30.5	32.0	34.5	38.0	37.5	40.5	43.5	46.0	49.5	54.0	58.5
Bedding diameter	mm app.	33.0	35.0	37.5	41.0	40.5	44.0	47.0	49.5	53.0	58.0	62.5
Size of armour wires	mm	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Overall diameter	mm app.	41.0	43.0	45.5	49.5	49.0	52.5	56.5	59.0	62.5	68.0	73.0
Normal drum length	m	500	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	3.7	4.1	4.7	5.4	5.7	6.5	7.4	8.1	9.1	10.9	12.4
Gross mass (drum length)	kg app.	2210	2410	2710	1950	2040	2280	2550	2760	3080	3690	4250
Bending radius	mm min.	492	516	546	594	588	630	678	708	750	816	876
Current rating												
In ground	Amps	69	88	105	125	155	185	210	240	270	320	360
In ducts	Amps	59	75	90	110	130	160	180	205	230	270	305
In air	Amps	68	88	110	130	160	195	225	260	300	350	405
Positive sequence												
Resistance dc @ 20°C	Ω/km max	1.910	1.200	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100
ac @ 80°C	Ω/km max	2.372	1.490	1.078	0.796	0.550	0.398	0.315	0.257	0.205	0.157	0.126
Reactance	Ω/km	0.109	0.105	0.100	0.095	0.077	0.073	0.071	0.069	0.067	0.065	0.063
Impedance	Ω/km	2.374	1.494	1.083	0.802	0.556	0.404	0.323	0.266	0.215	0.169	0.140
Zero sequence												
Resistance	Ω/km	7.826	6.269	5.208	4.341	3.945	3.340	2.922	2.710	2.372	1.956	1.715
Reactance	Ω/km	0.153	0.147	0.139	0.131	0.134	0.127	0.122	0.118	0.113	0.108	0.104
Impedance	Ω/km	7.828	6.271	5.210	4.343	3.947	3.342	2.924	2.712	2.375	1.959	1.718
Short circuit ratings												
Symmetrical	kA (1sec)	1.4	2.3	3.1	4.2	6.1	8.5	10.7	13.2	16.6	21.7	27.2
Earth fault (Symmetrical limit)	kA (1sec)	3.2	3.6	4.2	4.9	5.1	5.9	6.7	7.1	8.0	9.7	10.9

* Circular Conductor
When ordering please quote: primary + size + table + finish code
e.g. FIEA 3120 24 191



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Aluminium 3 Core
6350/11000V
Table 17
SANS 97

PILC/PILAC
FRPVC DTA FRPVC (red stripe)
LHPVC DTA LHPVC (blue stripe)

FIFA... Primary group code
...17191 Table + Finish code
...17292

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm app.	5.9	7.0	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm app.	12.2	13.2	14.6	14.6	16.0	17.2	18.4	19.9	21.9	23.9
Diameter over lead sheath	mm app.	32.0	34.0	37.0	36.5	40.0	42.5	45.5	49.0	53.0	57.5
Bedding diameter	mm app.	34.3	36.6	40.0	39.5	43.0	46.0	49.0	52.5	56.5	61.5
Thickness of DSTA	mm	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Overall diameter	mm app.	42.5	45.0	48.5	48.5	52.0	55.0	58.5	62.0	66.5	72.0
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	4.2	4.6	5.2	5.4	6.3	7.1	8.0	9.1	10.3	11.8
Gross mass (drum length)	kg app.	2320	2475	1720	1780	2075	2530	2800	3300	3435	3970
Bending radius	mm min.	510	540	582	582	624	660	702	744	798	864
Current rating											
In ground	Amps	83	100	120	150	180	200	230	260	300	340
In ducts	Amps	70	84	100	125	150	170	190	220	255	285
In air	Amps	83	100	120	155	190	215	245	280	335	385
Positive sequence											
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
ac @ 70°C	Ω/km max	1.442	1.043	0.770	0.533	0.385	0.305	0.248	0.198	0.152	0.122
Reactance	Ω/km	0.111	0.106	0.101	0.082	0.077	0.075	0.073	0.070	0.068	0.066
Impedance	Ω/km	1.446	1.048	0.777	0.539	0.393	0.314	0.259	0.210	0.166	0.138
Zero sequence											
Resistance	Ω/km	5.968	5.243	4.621	4.215	3.560	3.106	2.737	2.394	2.164	1.889
Reactance	Ω/km	0.128	0.121	0.115	0.117	0.112	0.108	0.105	0.102	0.098	0.094
Impedance	Ω/km	5.969	5.244	4.622	4.217	3.562	3.108	2.739	2.396	2.166	1.891
Short circuit ratings											
Symmetrical	kA (1sec)	2.3	3.2	4.4	6.4	8.8	11.1	13.7	17.2	22.5	28.2
Earth fault (Symmetrical limit)	kA (1sec)	3.8	4.1	4.5	4.7	5.5	6.2	7.0	7.9	8.6	9.8

* Circular Conductor

When ordering please quote: primary + size + table + finish code
e.g. FIFA 3120 17 191



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Aluminium 3 Core
11000/11000V
Table 18
SANS 97

PILC/PILAC
FRPVC DTA FRPVC (red stripe) FIFA... Primary group code
LHPVC DTA LHPVC (blue stripe) ...18191 Table + Finish code
...18292

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm app.	5.9	7.0	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm app.	12.2	13.2	14.6	14.6	16.0	17.2	18.4	19.9	21.9	23.9
Diameter over lead sheath	mm app.	35.7	38.2	41.5	41.0	44.5	47.0	49.5	53.0	57.5	62.0
Bedding diameter	mm app.	38.4	40.9	44.5	44.0	47.5	50.5	53.0	56.5	61.1	66.0
Size of armour wires	mm	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Overall diameter	mm app.	46.5	49.0	53.5	53.0	56.5	60.0	63.0	66.5	71.5	76.5
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	4.7	5.3	6.1	6.4	7.3	8.1	8.9	10.0	11.8	13.4
Gross mass (drum length)	kg app.	2590	2960	2013	2103	2590	2830	3015	3345	3965	4475
Bending radius	mm min.	558	588	642	636	678	720	756	798	858	918
Current rating											
In ground	Amps	81	97	115	140	170	195	220	250	290	330
In ducts	Amps	69	83	99	120	145	165	185	215	250	280
In air	Amps	80	98	115	145	175	205	235	270	320	365
Positive sequence											
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
ac @ 70°C	Ω/km max	1.442	1.043	0.770	0.533	0.385	0.305	0.248	0.198	0.152	0.122
Reactance	Ω/km	0.111	0.106	0.101	0.082	0.077	0.075	0.073	0.070	0.068	0.066
Impedance	Ω/km	1.446	1.049	0.777	0.539	0.393	0.314	0.259	0.210	0.166	0.138
Zero sequence											
Resistance	Ω/km	5.432	4.535	3.804	3.448	2.938	2.712	2.406	2.118	1.763	1.554
Reactance	Ω/km	0.151	0.144	0.136	0.139	0.132	0.127	0.123	0.118	0.113	0.109
Impedance	Ω/km	5.434	4.537	3.806	3.451	2.941	2.715	2.409	2.121	1.767	1.558
Short circuit ratings											
Symmetrical	kA (1sec)	2.3	3.2	4.4	6.4	8.8	11.1	13.7	17.2	22.5	28.2
Earth fault (Symmetrical limit)	kA (1sec)	4.4	5.0	5.7	6.0	6.8	7.2	8.1	9.0	10.8	12.1

* Circular Conductor
When ordering please quote: primary + size + table + finish code
e.g. FIFA 3120 18 191



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Aluminium 3 Core
6350/11000V
Table 19
SANS 97

PILC/PILAC
FRPVC DTA FRPVC (red stripe)
LHPVC DTA LHPVC (blue stripe)

FIFA...
...19191
...19292

Primary group code
Table + Finish code

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm app.	5.9	7.0	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm app.	12.9	13.7	15.1	15.1	16.5	17.7	18.9	20.4	22.4	24.4
Diameter over lead sheath	mm app.	32.5	35.0	38.0	37.5	41.0	43.5	46.0	49.5	54.0	58.5
Bedding diameter	mm app.	35.5	37.5	41.0	40.5	44.0	46.5	49.5	53.0	58.0	62.0
Size of armour wires	mm	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Overall diameter	mm app.	43.5	46.0	49.0	49.0	52.5	55.5	59.0	63.0	67.5	72.5
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	4.3	4.7	5.3	5.7	6.5	7.2	8.2	9.2	10.8	12.4
Gross mass (drum length)	kg app.	2650	2850	2090	2210	2450	2660	2960	3260	3740	4220
Bending radius	mm min.	522	552	588	588	630	666	708	756	810	870
Current rating											
In ground	Amps	90	110	130	155	185	210	235	265	310	350
In ducts	Amps	75	89	105	130	155	175	195	220	260	290
In air	Amps	92	110	135	165	200	230	260	295	350	400
Positive sequence											
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
ac @ 70°C	Ω/km max	1.442	1.043	0.770	0.533	0.385	0.305	0.248	0.198	0.152	0.122
Reactance	Ω/km	0.116	0.110	0.105	0.086	0.081	0.078	0.076	0.073	0.070	0.068
Impedance	Ω/km	1.447	1.049	0.777	0.540	0.393	0.314	0.260	0.211	0.167	0.139
Zero sequence											
Resistance	Ω/km	5.851	5.143	4.291	3.915	3.317	3.055	2.694	2.360	1.947	1.707
Reactance	Ω/km	0.119	0.113	0.109	0.111	0.106	0.103	0.100	0.097	0.094	0.091
Impedance	Ω/km	5.852	5.144	4.292	3.917	3.319	3.057	2.696	2.362	1.949	1.709
Short circuit ratings											
Symmetrical	kA (1sec)	2.3	3.2	4.4	6.4	8.8	11.1	13.7	17.2	22.5	28.2
Earth fault (Symmetrical limit)	kA (1sec)	3.9	4.2	4.9	5.1	5.9	6.3	7.1	8.0	9.7	11.0

* Circular Conductor

When ordering please quote: primary + size + table + finish code
e.g. FIFA3120 19 191



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Aluminium 3 Core
I 1000/I 1000V
Table 26
SANS 97

PILC/PILAC
FRPVC DTA FRPVC (red stripe) ...26191
LHPVC DTA LHPVC (blue stripe) ...26292

FIFA... Primary group code
...26191 Table + Finish code
...26292

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm app.	5.9	7.0	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm app.	13.4	14.5	15.8	15.8	17.3	18.5	19.7	21.2	23.2	25.1
Diameter over lead sheath	mm app.	40.5	43.0	46.0	45.5	48.5	51.5	54.0	57.5	62.0	66.5
Bedding diameter	mm app.	43.5	46.0	49.0	49.0	52.0	55.0	58.5	62.0	66.5	71.0
Size of armour wires	mm	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Overall diameter	mm app.	52.0	55.0	58.0	58.0	61.5	64.5	68.0	72.5	77.5	82.0
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	5.8	6.4	7.2	7.6	8.5	9.5	10.5	11.8	13.4	15.0
Gross mass (drum length)	kg app.	3330	3630	2520	2640	2980	3280	3580	3970	4480	4960
Bending radius	mm min.	624	660	696	696	738	774	816	870	930	984
Current rating											
In ground	Amps	79	95	115	140	165	190	215	245	285	320
In ducts	Amps	69	83	98	120	145	165	185	210	245	280
In air	Amps	80	96	115	140	175	200	230	260	310	355
Positive sequence											
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
ac @ 70°C	Ω/km max	1.442	1.043	0.770	0.533	0.385	0.305	0.248	0.198	0.151	0.122
Reactance	Ω/km	0.117	0.112	0.106	0.087	0.082	0.079	0.077	0.074	0.071	0.069
Impedance	Ω/km	1.447	1.049	0.778	0.540	0.393	0.315	0.260	0.211	0.167	0.140
Zero sequence											
Resistance	Ω/km	4.761	3.980	3.352	3.020	2.587	2.288	2.043	1.811	1.584	1.404
Reactance	Ω/km	0.162	0.155	0.147	0.150	0.142	0.137	0.132	0.127	0.122	0.117
Impedance	Ω/km	4.764	3.983	3.355	3.024	2.591	2.292	2.047	1.816	1.589	1.409
Short circuit ratings											
Symmetrical	kA (1sec)	2.3	3.2	4.4	6.4	8.8	11.1	13.7	17.2	22.5	28.2
Earth fault (Symmetrical limit)	kA (1sec)	5.2	5.9	6.7	7.0	7.9	8.8	9.7	10.8	12.1	13.5

* Circular Conductor

When ordering please quote: primary + size + table + finish code
e.g. FIFA 3120 26 191



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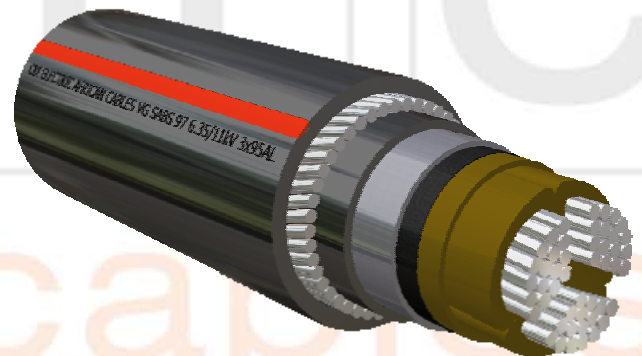
Aluminium 3 Core
6350/11000V
Table 17
SANS 97

PILC/PILAC
FRPVC SWA FRPVC (red stripe)
LHPVC SWA LHPVC (blue stripe)

FIFA... Primary group code
...17111 Table + Finish code
...17212

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm app.	5.9	7	8.3	8.3	9.8	11	12.2	13.7	15.7	17.6
Insulated depth	mm app.	12.2	13.2	14.6	14.6	16	17.2	18.4	19.9	21.9	23.9
Diameter over lead sheath	mm app.	32	34	37	36.5	40	42.5	45.5	49	53	57.5
Bedding diameter	mm app.	34.5	37	40.5	39.5	43	46	49	52.5	56.5	61.5
Size of armour wires	mm	2	2.5	2.5	2.5	2.5	2.5	3.15	3.15	3.15	3.15
Overall diameter	mm app.	43	46.5	50	50	53.5	57	61.5	65	69.5	74.5
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	4.7	5.6	6.2	6.5	7.4	8.3	10	11.2	12.5	14.3
Gross mass (drum length)	kg app.	2750	3200	2045	2135	2620	2890	3400	3760	4150	4860
Bending radius	mm min.	516	558	600	600	642	684	738	780	834	894
Current rating											
In ground	Amps	83	100	120	150	180	205	230	260	300	340
In ducts	Amps	70	85	100	125	150	170	195	220	255	290
In air	Amps	83	100	120	155	190	220	250	285	340	390
Positive sequence											
Resistance dc @ 20°C	W/km max	1.2	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.1
ac @ 70°C	W/km max	1.442	1.043	0.77	0.533	0.385	0.305	0.248	0.198	0.152	0.122
Reactance	W/km	0.111	0.106	0.101	0.082	0.077	0.075	0.073	0.07	0.068	0.066
Impedance	W/km	1.446	1.048	0.777	0.539	0.393	0.314	0.259	0.21	0.166	0.138
Zero sequence											
Resistance	W/km	3.086	2.359	1.98	1.736	1.474	1.302	1.033	0.92	0.819	0.679
Reactance	W/km	0.128	0.121	0.115	0.117	0.112	0.108	0.105	0.102	0.098	0.094
Impedance	W/km	3.089	2.362	1.983	1.74	1.478	1.306	1.038	0.926	0.825	0.685
Short circuit ratings											
Symmetrical	kA (1sec)	2.3	3.2	4.4	6.4	8.8	11.1	13.7	17.2	22.5	28.2
Earth fault (Symmetrical limit)	kA (1sec)	12.4	15.7	17	17.1	18.8	20.5	26.2	28.4	30.7	33.7

* Circular Conductor
When ordering please quote: primary + size + table + finish code
e.g. FIFA 3120 17 111



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Aluminium 3 Core

11000/11000V

Table 18

SANS 97

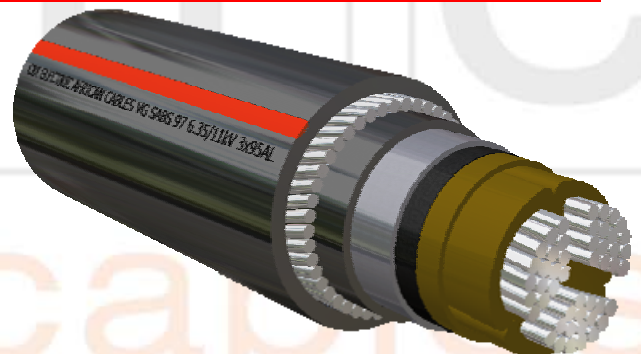
PILC/PILAC
 FRPVC SWA FRPVC (red stripe) ...18111 Table + Finish code
 LHPVC SWA LHPVC (blue stripe) ...18212

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm app.	5.9	7.0	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm app.	12.2	13.2	14.6	14.6	16.0	17.2	18.4	19.9	21.9	23.9
Diameter over lead sheath	mm app.	36.0	38.5	41.5	41.0	44.5	47.0	49.5	53.0	58.0	62.0
Bedding diameter	mm app.	38.4	40.9	44.5	44.0	47.5	50.5	53.0	56.5	62.0	66.0
Size of armour wires	mm	2.50	2.50	2.50	2.50	3.15	3.15	3.15	3.15	3.15	3.15
Overall diameter	mm app.	48.5	51.0	55.0	54.5	59.5	63.0	66.0	69.5	74.5	79.5
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	5.9	6.5	7.4	7.7	9.4	10.2	11.2	12.4	14.4	16.2
Gross mass (drum length)	kg app.	3350	3650	2620	2710	3220	3405	3705	4135	4845	5430
Bending radius	mm min.	582	612	660	654	714	756	792	834	894	954
Current rating											
In ground	Amps	81	97	115	140	170	195	220	250	290	330
In ducts	Amps	70	84	99	120	145	165	190	215	250	285
In air	Amps	81	98	120	145	180	205	235	270	320	370
Positive sequence											
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
ac @ 70°C	Ω/km max	1.442	1.043	0.770	0.533	0.385	0.305	0.248	0.198	0.152	0.122
Reactance	Ω/km	0.111	0.106	0.101	0.082	0.077	0.075	0.073	0.070	0.068	0.066
Impedance	Ω/km	1.446	1.048	0.777	0.539	0.393	0.314	0.259	0.211	0.167	0.139
Zero sequence											
Resistance	Ω/km	2.700	2.200	1.816	1.572	1.193	1.067	0.959	0.855	0.740	0.659
Reactance	Ω/km	0.151	0.144	0.136	0.139	0.132	0.127	0.123	0.118	0.113	0.109
Impedance	Ω/km	2.704	2.205	1.821	1.578	1.200	1.075	0.967	0.863	0.749	0.668
Short circuit ratings											
Symmetrical	kA (1sec)	2.3	3.2	4.4	6.4	8.8	11.1	13.7	17.2	22.5	28.2
Earth fault (Symmetrical limit)	kA (1sec)	16.0	17.8	19.6	19.6	25.5	27.0	28.9	31.1	34.6	37.7

* Circular Conductor

When ordering please quote: primary + size + table + finish code

e.g. FIFA 3120 18 111



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Aluminium 3 Core
6350/11000V
Table 19
SANS 97

PILC/PILAC
FRPVC SWA FRPCV (red stripe)
LHPVC SWA LHPVC (blue stripe)

FIFA...
...19111
...19212

Primary group code
Table + Finish code

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm app.	5.9	7.0	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm app.	12.7	13.7	15.1	15.1	16.5	17.7	18.9	20.4	22.4	24.4
Diameter over lead sheath	mm app.	32.5	35.0	38.0	37.5	41.0	43.5	46.0	49.5	54.0	58.5
Bedding diameter	mm app.	35.5	37.5	41.0	40.5	44.0	46.5	49.5	53.0	58.0	62.0
Size of armour wires	mm	2.00	2.50	2.50	2.50	2.50	2.50	3.15	3.15	3.15	3.15
Overall diameter	mm app.	44.0	47.5	51.0	51.0	54.5	57.0	62.0	65.5	70.5	75.5
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	4.8	5.6	6.4	6.8	7.7	8.4	10.2	11.4	13.3	16.2
Gross mass (drum length)	kg app.	2900	3300	2420	2540	2810	3020	3560	3920	4490	5360
Bending radius	mm min.	528	570	612	612	654	684	744	786	846	906
Current rating											
In ground	Amps	90	110	130	155	185	210	235	270	310	345
In ducts	Amps	75	90	105	130	155	175	200	225	260	295
In air	Amps	95	115	135	165	200	230	265	300	355	400
Positive sequence											
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
ac @ 70°C	Ω/km max	1.442	1.043	0.770	0.533	0.385	0.305	0.248	0.198	0.152	0.122
Reactance	Ω/km	0.116	0.109	0.105	0.086	0.081	0.078	0.076	0.073	0.070	0.068
Impedance	Ω/km	1.447	1.049	0.777	0.540	0.393	0.314	0.260	0.211	0.167	0.139
Zero sequence											
Resistance	Ω/km	3.048	2.331	1.935	1.685	1.430	1.291	1.022	0.910	0.785	0.701
Reactance	Ω/km	0.119	0.113	0.109	0.111	0.106	0.103	0.100	0.097	0.094	0.091
Impedance	Ω/km	3.050	2.334	1.938	1.689	1.434	1.295	1.027	0.915	0.791	0.707
Short circuit ratings											
Symmetrical	kA (1sec)	2.3	3.2	4.4	6.4	8.8	11.1	13.7	17.2	22.5	28.2
Earth fault (Symmetrical limit)	kA (1sec)	12.7	16	17.6	17.8	19.5	20.7	26.6	28.8	32.2	35.1

* Circular Conductor

When ordering please quote: primary + size + table + finish code
e.g. FIFA 3120 19 111



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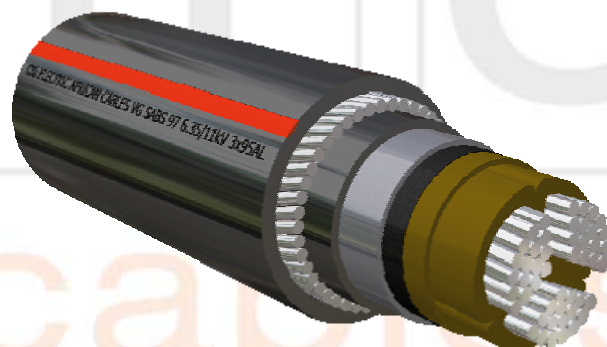
Aluminium 3 Core
11000/11000V
Table 26
SANS 97

PILC/PILAC
FRPVC SWA FRPVC (red stripe)
LHPVC SWA LHPVC (blue stripe)

FIFA... Primary group code
...26111 Table + Finish code
...26212

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm app.	5.9	7.0	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm app.	13.4	14.5	15.8	15.8	17.3	18.5	19.7	21.2	23.2	25.1
Diameter over lead sheath	mm app.	40.5	43.0	46.0	45.5	48.5	51.5	54.0	57.5	62.0	66.5
Bedding diameter	mm app.	43.5	46.0	49.0	49.0	52.0	55.0	58.5	62.0	66.5	71.0
Size of armour wires	mm	2.50	2.50	2.50	3.15	3.15	3.15	3.15	3.15	3.15	3.15
Overall diameter	mm app.	53.5	56.5	60.0	61.0	64.5	67.5	71.0	75.5	80.5	85.0
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	6.9	7.6	8.4	9.6	10.6	11.7	12.8	14.3	16.0	17.8
Gross mass (drum length)	kg app.	3880	4230	2950	3310	3610	3940	4270	4720	5260	5840
Bending radius	mm min.	642	678	720	732	774	810	852	906	966	1020
Current rating											
In ground	Amps	79	95	115	140	165	190	215	245	285	325
In ducts	Amps	69	83	98	120	145	165	185	210	250	280
In air	Amps	80	97	115	145	175	200	230	265	315	360
Positive sequence											
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
ac @ 70°C	Ω/km max	1.442	1.043	0.770	0.533	0.385	0.305	0.248	0.198	0.151	0.122
Reactance	Ω/km	0.118	0.112	0.106	0.088	0.082	0.080	0.077	0.074	0.072	0.069
Impedance	Ω/km	1.447	1.049	0.778	0.540	0.393	0.315	0.260	0.211	0.167	0.140
Zero sequence											
Resistance	Ω/km	2.540	2.059	1.702	1.318	1.109	0.981	0.879	0.782	0.687	0.616
Reactance	Ω/km	0.162	0.155	0.147	0.150	0.142	0.137	0.132	0.127	0.122	0.117
Impedance	Ω/km	2.545	2.065	1.708	1.326	1.118	0.991	0.889	0.792	0.698	0.627
Short circuit ratings											
Symmetrical	kA (1sec)	2.3	3.2	4.4	6.4	8.8	11.1	13.7	17.2	22.5	28.2
Earth fault (Symmetrical limit)	kA (1sec)	18.7	20.1	21.9	26.2	28.4	30.3	32.4	34.9	37.9	41.0

* Circular Conductor
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e.g. FIFA 3120 26 111



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PILAC
FRPVC (red stripe)
LHPVC (blue stripe)

FIFA... Primary group code
...30 001 Finish code
...30002

Aluminium I Core
6350/11000V
Table 10
SANS 97

Size code	...naaa...	1150	1185	1240	1300	1400	1500	1630	1800	1999
Conductor size	mm ² nom	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	14.4	15.9	18.4	20.5	23.1	26.4	29.8	34.2	38.9
Insulated diameter	mm app.	22.4	23.9	26.4	28.5	31.1	34.3	37.8	42.2	46.9
Diameter over lead sheath	mm app.	27.5	29.0	32.0	34.0	37.0	40.5	44.0	49.0	53.5
Overall diameter	mm app.	31.0	32.5	35.0	37.0	40.5	44.0	48.0	53.0	58.0
Normal drum length	m	500	500	500	500	500	500	500	500	500
Cable mass	kg/m app.	2.5	2.7	3.2	3.6	4.2	5.0	6.0	7.1	8.5
Gross mass (drum length)	kg app.	1750	1850	2100	2300	2600	3000	3500	4050	4750
Bending radius	mm min.	775	813	875	925	1013	1100	1200	1325	1450
Current rating										
In ground	Amps	250	285	330	375	430	490	555	620	720
In ducts	Amps	230	260	300	340	390	440	500	560	640
In air	Amps	285	330	395	450	530	620	715	830	985
Positive sequence										
Resistance dc @ 20°C	Ω/km max	0.206	0.164	0.125	0.100	0.0778	0.0605	0.0469	0.0367	0.0291
ac @ 70°C	Ω/km max	0.248	0.198	0.151	0.122	0.0952	0.0750	0.0594	0.0479	0.0360
Reactance	Ω/km	0.111	0.108	0.104	0.098	0.096	0.093	0.090	0.087	0.085
Impedance	Ω/km	0.272	0.225	0.183	0.156	0.135	0.118	0.108	0.099	0.092
Zero sequence										
Resistance	Ω/km	1.996	1.852	1.566	1.443	1.241	1.059	0.913	0.778	0.666
Reactance	Ω/km	0.057	0.055	0.051	0.046	0.044	0.041	0.038	0.036	0.034
Impedance	Ω/km	1.997	1.853	1.567	1.444	1.242	1.060	0.914	0.779	0.667
Short circuit ratings										
Symmetrical	kA (1sec)	13.7	17.2	22.5	28.2	36.2	46.5	60.0	76.7	96.8
Earth fault (Symmetrical limit)	kA (1sec)	3.6	3.8	4.4	4.7	5.5	6.4	7.3	8.6	9.9

When ordering please quote: primary + size + table + finish code
e.g. FIFA 1500 30 001



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PILAC
FRPVC (red stripe)
LHPVC (blue stripe)

FIFA... Primary group code
...30 001 Finish code
...30002

Aluminium I Core
6350/11000V
Table 10
SANS 97

Size code	...naaa...	1150	1185	1240	1300	1400	1500	1630	1800	1999
Conductor size	mm ² nom	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	14.4	15.9	18.4	20.5	23.1	26.4	29.8	34.2	38.9
Insulated diameter	mm app.	22.4	23.9	26.4	28.5	31.1	34.3	37.8	42.2	46.9
Diameter over lead sheath	mm app.	27.5	29.0	32.0	34.0	37.0	40.5	44.0	49.0	53.5
Overall diameter	mm app.	31.0	32.5	35.0	37.0	40.5	44.0	48.0	53.0	58.0
Normal drum length	m	500	500	500	500	500	500	500	500	500
Cable mass	kg/m app.	2.5	2.7	3.2	3.6	4.2	5.0	6.0	7.1	8.5
Gross mass (drum length)	kg app.	1750	1850	2100	2300	2600	3000	3500	4050	4750
Bending radius	mm min.	775	813	875	925	1013	1100	1200	1325	1450
Current rating										
In ground	Amps	250	285	330	375	430	490	555	620	720
In ducts	Amps	230	260	300	340	390	440	500	560	640
In air	Amps	285	330	395	450	530	620	715	830	985
Positive sequence										
Resistance dc @ 20°C	Ω/km max	0.206	0.164	0.125	0.100	0.0778	0.0605	0.0469	0.0367	0.0291
ac @ 70°C	Ω/km max	0.248	0.198	0.151	0.122	0.0952	0.0750	0.0594	0.0479	0.0360
Reactance	Ω/km	0.111	0.108	0.104	0.098	0.096	0.093	0.090	0.087	0.085
Impedance	Ω/km	0.272	0.225	0.183	0.156	0.135	0.118	0.108	0.099	0.092
Zero sequence										
Resistance	Ω/km	1.996	1.852	1.566	1.443	1.241	1.059	0.913	0.778	0.666
Reactance	Ω/km	0.057	0.055	0.051	0.046	0.044	0.041	0.038	0.036	0.034
Impedance	Ω/km	1.997	1.853	1.567	1.444	1.242	1.060	0.914	0.779	0.667
Short circuit ratings										
Symmetrical	kA (1sec)	13.7	17.2	22.5	28.2	36.2	46.5	60.0	76.7	96.8
Earth fault (Symmetrical limit)	kA (1sec)	3.6	3.8	4.4	4.7	5.5	6.4	7.3	8.6	9.9

When ordering please quote: primary + size + table + finish code
e.g. FIFA 1500 30 001



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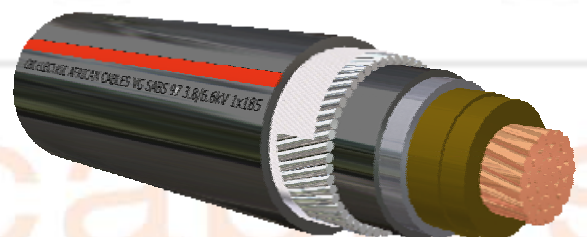


Copper I Core
3800/6600V
Table 9
SANS 97

PILAC
FRPVC AWA FRPVC (red stripe) FIEC...
LHPVC AWA LHPVC (blue stripe) ...29141
...29242 Primary group code
Table + Finish code

Size code	...naaa...	1150	1185	1240	1300	1400	1500	1630
Conductor size	mm ² nom	150	185	240	300	400	500	630
Conductor diameter	mm nom	14.7	16.5	18.8	21.2	23.9	27.4	30.3
Insulated diameter	mm nom	20.9	22.8	25.0	27.5	30.2	33.6	37.0
Diameter over lead sheath	mm nom	24.5	26.0	28.5	31.5	34.0	37.5	41.0
Bedding diameter	mm nom	27.0	29.0	31.5	34.0	37.5	41.0	44.0
Size of armour wires	mm	2.00	2.00	2.00	2.00	2.50	2.50	2.50
Overall diameter	mm nom	35.0	37.0	39.5	42.0	47.0	51.0	54.0
Normal drum length	m	500	500	500	500	500	500	500
Cable mass	kg/m app.	3.7	4.2	5.1	6.0	7.4	8.8	10.7
Gross mass (drum length)	kg app.	2350	2600	3050	3500	4200	4900	5850
Bending radius	mm min.	700	740	790	840	940	1020	1080
Current rating								
In ground	Amps	340	380	430	475	510	560	605
In ducts	Amps	310	345	390	430	460	505	540
In air	Amps	400	455	530	600	660	740	820
Positive sequence								
Resistance dc @ 20°C	Ω/km max	0.124	0.0991	0.0754	0.0601	0.0470	0.0366	0.0283
ac @ 80°C	Ω/km max	0.154	0.1235	0.0946	0.0761	0.0605	0.0483	0.0391
Reactance	Ω/km	0.118	0.114	0.110	0.104	0.103	0.099	0.096
Impedance at 80°C	Ω/km	0.194	0.168	0.145	0.129	0.120	0.111	0.104
Zero sequence								
Resistance	Ω/km	0.353	0.310	0.265	0.233	0.175	0.153	0.135
Reactance	Ω/km	0.047	0.045	0.043	0.038	0.036	0.034	0.032
Impedance	Ω/km							1.009
Short circuit ratings								
Symmetrical	kA (1sec)	20.7	25.9	34.1	42.8	54.7	70.2	90.8
Earth fault(Symmetrical limit)	kA (1sec)	16.2	17.3	19.0	20.9	28.0	30.5	33.2

When ordering please quote: primary + size + table + finish code
e.g. FIEC 1500 29 141



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Copper 3 Core
3800/6600V
Table 15
SANS 97

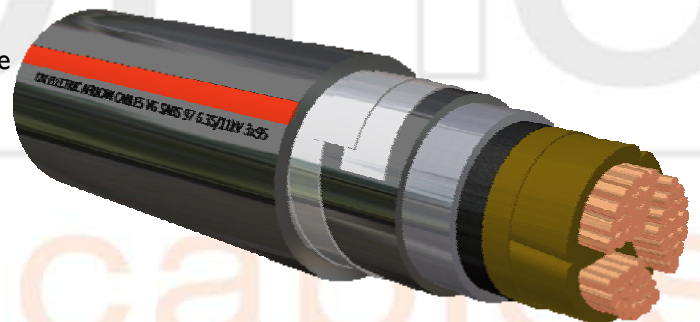
PILC/PILAC
FRPVC DTA FRPVC(red stripe)
LHPVC DTA LHPVC(blue stripe)

FIEC...
...15191
...15292

Primary group code
Table + Finish code

Size code	...naaa...	3016	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	16*	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm nom	5.2	6.1	7.2	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm nom	9.7	10.6	11.7	12.8	12.8	14.3	15.5	16.7	18.2	20.2	22.1
Diameter over lead sheath	mm nom	26.0	28.0	30.5	33.0	32.5	36.0	38.5	41.5	45.0	49.5	54.0
Bedding diameter	mm nom	28.0	31.0	33.5	36.0	35.5	39.0	42.0	44.5	48.5	53.0	57.5
Thickness of DSTA	mm	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Overall diameter	mm nom	35.5	38.0	41.0	44.0	43.5	47.5	50.5	53.5	57.5	63.0	67.5
Normal drum length	m	500	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	3.4	3.9	4.6	5.3	5.9	7.2	8.4	9.7	11.4	14.1	16.7
Gross mass (drum length)	kg app.	2080	2330	2680	1970	2150	2540	2900	3290	3800	4610	5390
Bending radius	mm min.	426	456	492	528	522	570	606	642	690	756	810
Current rating												
In ground	Amps	92	115	140	170	210	250	285	320	360	420	470
In ducts	Amps	76	98	115	140	170	210	240	265	300	350	395
In air	Amps	91	115	145	170	215	265	305	350	400	470	539
Positive sequence												
Resistance dc @ 20°C	Ω/km max	1.150	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601
ac @ 80°C	Ω/km max	1.421	0.899	0.648	0.479	0.332	0.239	0.190	0.155	0.124	0.0955	0.0773
Reactance	Ω/km	0.105	0.101	0.096	0.093	0.075	0.071	0.069	0.067	0.065	0.063	0.061
Impedance at 80°C	Ω/km	1.425	0.904	0.655	0.487	0.340	0.249	0.202	0.168	0.140	0.114	0.098
Zero sequence												
Resistance	Ω/km	7.851	6.821	5.687	5.120	4.747	3.993	3.466	3.037	2.643	2.159	1.882
Reactance	Ω/km	0.127	0.120	0.115	0.110	0.112	0.106	0.103	0.100	0.097	0.094	0.091
Impedance	Ω/km	7.852	6.822	5.689	5.121	4.749	3.995	3.468	3.039	2.645	2.161	1.884
Short circuit ratings												
Symmetrical	kA (1sec)	2.2	3.5	4.9	6.6	9.5	13.3	16.7	20.7	25.9	34.0	42.7
Earth fault(Symmetrical limit)	kA (1sec)	2.7	2.9	3.4	3.7	3.9	4.6	5.3	6.0	6.8	8.4	9.6

* Circular Conductor
When ordering please quote: primary + size + table + finish code
e.g. FIEC 3120 15 191



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Copper 3 Core
6600/6600V
Table 16
SANS 97

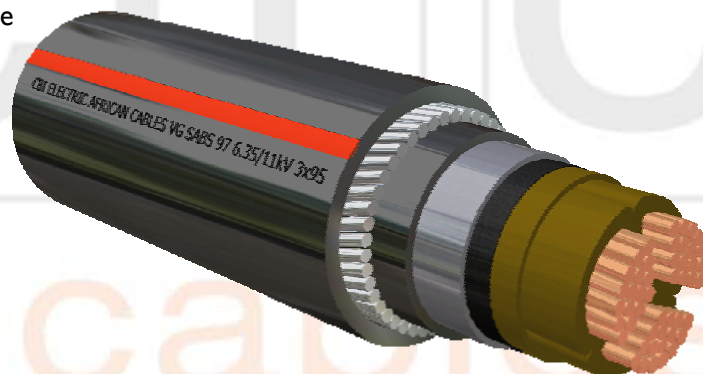
PILC/PILAC
FRPVC SWA FRPVC (red stripe)
LHPVC SWA LHPVC (blue stripe)

FIEC...
...16111
...16212

Primary group code
Table + Finish code

Size code	...naaa...	3016	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	16*	25*	35*	50	70	95	120	150	185	240	300
Conductor depth	mm nom	5.2	6.1	7.2	6.9	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm nom	9.7	10.6	11.7	11.4	12.8	14.3	15.5	16.7	18.2	20.2	22.1
Diameter over lead sheath	mm nom	28.5	31.0	33.0	32.0	35.5	38.5	41.5	44.0	47.5	52.0	56.5
Bedding diameter	mm nom	31.0	33.5	36.0	34.5	38.5	42.0	44.5	48.0	51.0	55.5	60.0
Size of armour wires	mm	2.00	2.00	2.50	2.50	2.50	2.50	2.50	3.15	3.15	3.15	3.15
Overall diameter	mm nom	39.5	42.0	45.5	44.5	48.5	52.0	55.0	60.0	63.5	68.5	73.5
Normal drum length	m	300	300	300	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	4.1	4.8	5.8	6.2	7.5	8.9	10.2	12.3	14.2	16.8	19.8
Gross mass (drum length)	kg app.	1730	1940	2240	2360	2750	3170	3560	4190	4760	5540	6440
Bending radius	mm min.	474	504	546	534	582	624	660	720	762	822	882
Current rating												
In ground	Amps	90	115	140	165	200	245	280	315	355	415	465
In ducts	Amps	76	97	120	140	170	205	235	265	300	350	395
In air	Amps	89	115	140	170	210	260	300	340	390	465	530
Positive sequence												
Resistance dc @ 20°C	Ω/km max	1.150	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060
ac @ 80°C	Ω/km max	1.421	0.899	0.648	0.479	0.332	0.239	0.190	0.155	0.124	0.095	0.077
Reactance	Ω/km	0.105	0.101	0.096	0.079	0.075	0.071	0.069	0.067	0.065	0.063	0.061
Impedance at 80°C	Ω/km	1.425	0.904	0.655	0.485	0.340	0.249	0.202	0.168	0.140	0.114	0.098
Zero sequence												
Resistance	Ω/km	3.332	2.634	2.030	1.876	1.574	1.360	1.220	0.959	0.863	0.764	0.675
Reactance	Ω/km	0.145	0.138	0.131	0.135	0.127	0.121	0.116	0.112	0.108	0.104	0.100
Impedance	Ω/km	3.335	2.638	2.034	1.881	1.579	1.366	1.226	0.966	0.870	0.771	0.682
Short circuit ratings												
Symmetrical	kA (1sec)	2.2	3.5	4.9	6.6	9.6	13.3	16.7	20.7	25.9	34.0	42.8
Earth fault(Symmetrical limit)	kA (1sec)	10.7	11.7	14.9	14.7	16.5	18.2	19.8	25.5	27.7	30.6	34.0

* Circular Conductor
When ordering please quote: primary + size + table + finish code
e.g. FIEC 3120 16 111



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PILC/PILAC
FRPVC DTA FRPVC (red stripe)
LHPVC DTA LHPVC (blue stripe)

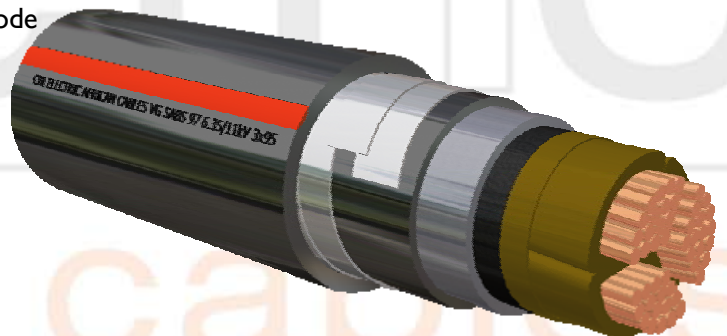
FIEC...
...16191
...16292

Primary group code
Table + Finish code

Copper 3 Core
6600/6600V
Table 16
SABS 97

Size code	...naaa...	3016	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	16*	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm nom	5.2	6.1	7.2	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm nom	9.7	10.6	11.7	12.8	12.8	14.3	15.5	16.7	18.2	20.2	22.1
Diameter over lead sheath	mm nom	28.5	31.0	33.0	36.0	35.5	38.5	41.5	44.0	47.5	52.0	56.5
Bedding diameter	mm nom	31.0	33.5	36.0	38.5	38.5	42.0	44.5	48.0	51.0	55.5	60.0
Thickness of DSTA	mm	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Overall diameter	mm nom	38.5	41.0	43.5	46.5	47.0	50.5	53.5	57.0	60.5	65.5	70.5
Normal drum length	m	500	500	500	500	300	300	300	300	300	300	300
Cable mass	kg/m app.	3.7	4.3	4.9	5.7	6.4	7.8	9.0	10.4	12.1	14.6	17.4
Gross mass (drum length)	kg app.	2100	2400	2700	3100	2420	2840	3200	3620	4130	4880	5720
Bending radius	mm min.	462	492	522	558	564	606	642	684	726	786	846
Current rating												
In ground	Amps	89	115	140	165	200	245	280	310	355	410	460
In ducts	Amps	75	97	115	140	170	205	235	265	300	345	390
In air	Amps	88	115	140	170	210	255	295	335	385	455	525
Positive sequence												
Resistance dc @ 20°C	Ω/km max	1.150	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601
ac @ 80°C	Ω/km max	1.421	0.899	0.648	0.479	0.332	0.239	0.190	0.155	0.124	0.0955	0.0773
Reactance	Ω/km	0.105	0.101	0.096	0.093	0.075	0.071	0.069	0.067	0.065	0.063	0.061
Impedance at 80°C	Ω/km	1.425	0.904	0.655	0.487	0.340	0.249	0.202	0.168	0.140	0.114	0.098
Zero sequence												
Resistance	Ω/km	7.249	5.901	5.283	4.475	4.147	3.518	3.077	2.714	2.378	2.054	1.719
Reactance	Ω/km	0.145	0.138	0.131	0.125	0.127	0.121	0.116	0.112	0.108	0.104	0.100
Impedance	Ω/km	7.251	5.903	5.285	4.477	4.149	3.520	3.079	2.716	2.381	2.056	1.722
Short circuit ratings												
Symmetrical	kA (1sec)	2.3	3.7	5.1	6.9	9.9	13.8	17.4	21.5	26.9	35.3	44.3
Earth fault(Symmetrical limit)	kA (1sec)	2.9(2.3)	3.5	3.7	4.3	4.6	5.3	6.0	6.8	7.7	8.9	10.6

* Circular Conductor
When ordering please quote: primary + size + table + finish code
e.g. FIEC 3120 16 191



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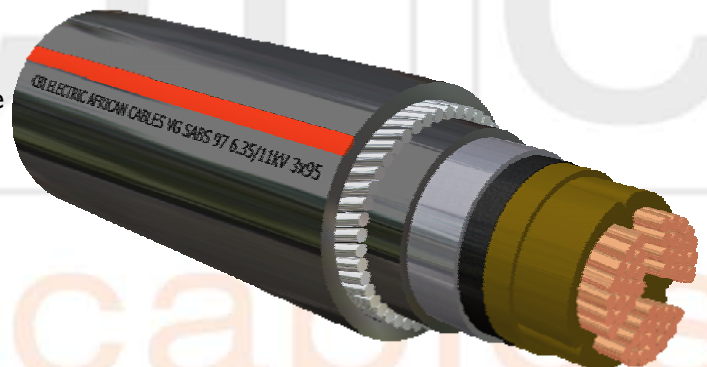
Copper 3 Core
6600/6600V
Table 24
SANS 97

PILC/PILAC	FIEC...	Primary group code
FRPVC SWA FRPVC (red stripe)	...24111	Table + Finish code
LHPVC SWA LHPVC (blue stripe)	...24212	
ZEROTOX SWA ZEROTOX (white stripe)24313	

Size code	...naaa...	3016	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	16*	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm app.	5.2	6.1	7.2	8.3	8.3	9.8	11	12.2	13.7	15.7	17.6
Insulated depth	mm app.	10.2	11.1	12.2	13.3	13.3	14.8	16	17.2	18.7	20.7	22.6
Diameter over lead sheath	mm app.	30.5	32.5	35	38	37.5	40.5	43.5	46	49.5	54	58.5
Bedding diameter	mm app.	33	35.5	38	41	40.5	44	47	49.5	53	58	62.5
Size of armour wires	mm	2	2	2.5	2.5	2.5	2.5	3.15	3.15	3.15	3.15	3.55
Overall diameter	mm app.	41.5	44	47.5	51	50.5	54	59	62	65.5	71	76.5
Normal drum length	m	500	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	4.5	5.1	6.3	7.3	8	9.4	11.5	12.8	14.6	17.6	21
Gross mass (drum length)	kg app.	2610	2910	3510	2520	2730	3150	3780	4190	4730	5810	6830
Bending radius	mm min.	498	528	570	612	606	648	708	744	786	852	918
Current rating												
In ground	Amps	89	115	140	160	200	240	275	310	350	410	460
In ducts	Amps	76	97	120	140	170	205	235	265	300	350	390
In air	Amps	89	115	140	170	210	255	295	335	385	455	525
Positive sequence												
Resistance dc @ 20°C	Ω/km max	1.15	0.73	0.52	0.39	0.27	0.19	0.15	0.12	0.099	0.075	0.06
ac @ 80°C	Ω/km max	1.421	0.9	0.65	0.48	0.33	0.24	0.19	0.16	0.124	0.096	0.077
Reactance	Ω/km	0.109	0.1	0.1	0.1	0.08	0.07	0.07	0.07	0.067	0.065	0.063
Impedance	Ω/km	1.425	0.9	0.66	0.49	0.34	0.25	0.2	0.17	0.141	0.115	0.099
Zero sequence												
Resistance	Ω/km	3.224	2.54	1.93	1.64	1.49	1.29	1.01	0.93	0.837	0.727	0.609
Reactance	Ω/km	0.153	0.15	0.14	0.13	0.13	0.13	0.12	0.12	0.113	0.108	0.104
Impedance	Ω/km	3.227	2.55	1.93	1.65	1.49	1.29	1.02	0.94	0.845	0.735	0.618
Short circuit ratings												
Symmetrical	kA (1sec)	2.2	3.5	4.9	6.6	9.6	13.3	16.8	20.7	25.9	34.1	42.8
Earth fault (Symmetrical limit)	kA (1sec)	11.4	12.4	16.1	17.6	17.7	19.5	25.2	26.6	28.8	32.3	38.5

* Circular Conductor

When ordering please quote: primary + size + table + finish code
e.g. FIEC 3120 24 111



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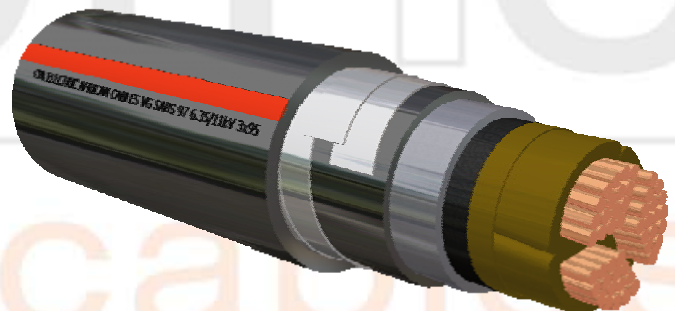


Copper 3 Core
6350/11000 V
Table 17
SANS 97

PILC FIFC... Primary group code
FRPVC DTA FRPVC (red stripe) ...17191 Table + Finish code
LHPVC DTA LHPVC (blue stripe) ...17292

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm app.	6.1	7.2	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm app.	12.4	13.5	14.6	14.6	16.0	17.2	18.4	19.9	21.9	23.9
Diameter over lead sheath	mm app.	32.5	34.5	37.0	36.5	40.0	42.5	45.5	49.0	53.0	57.5
Bedding diameter	mm app.	35.0	37.5	40.0	39.5	43.0	46.0	49.0	52.5	56.5	61.5
Thickness of DSTA	mm	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Overall diameter	mm nom	43.0	45.5	48.5	48.5	52.0	55.0	58.5	62.0	66.5	72.0
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	4.7	5.2	6.0	6.7	8.0	9.3	10.7	12.4	14.7	17.4
Gross mass (drum length)	kg app.	2570	2840	1960	2170	2585	3190	3610	4290	4755	5650
Bending radius	mm min.	516	546	582	582	624	660	702	744	798	864
Current rating											
In ground	Amps	110	130	155	190	230	260	290	330	380	430
In ducts	Amps	91	110	130	160	190	220	245	280	320	360
In air	Amps	110	130	155	200	240	275	315	360	425	485
Positive sequence											
Resistance dc @ 20°C	Ω/km max	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601
ac @ 70°C	Ω/km max	0.870	0.627	0.463	0.321	0.232	0.184	0.149	0.1201	0.0924	0.0747
Reactance	Ω/km	0.110	0.105	0.101	0.082	0.077	0.075	0.073	0.070	0.068	0.066
Impedance	Ω/km	0.877	0.636	0.474	0.332	0.244	0.199	0.166	0.139	0.115	0.099
Zero sequence											
Resistance	Ω/km	5.325	4.769	4.314	4.004	3.406	2.985	2.638	2.316	2.104	1.841
Reactance	Ω/km	0.126	0.120	0.115	0.117	0.112	0.108	0.105	0.102	0.098	0.094
Impedance	Ω/km	5.326	4.771	4.316	4.006	3.408	2.987	2.640	2.318	2.106	1.843
Short circuit ratings											
Symmetrical	kA (1sec)	3.7	5.1	6.9	9.9	13.8	17.4	21.5	26.9	35.3	44.3
Earth fault(Symmetrical limit)	kA (1sec)	3.97	4.2	4.5	4.7	5.5	6.2	7.0	7.9	8.6	9.8

* Circular Conductor
When ordering please quote: primary + size + table + finish code
e.g. FIFC 3120 17 191



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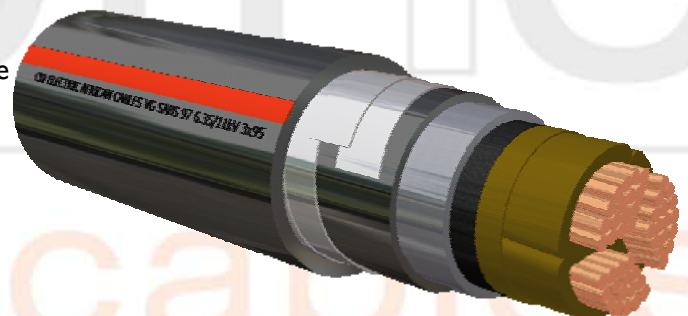
Copper 3 Core
11000/11000V
Table 18
SANS 97

PILC/PILAC
FRPVC DTA FRPVC (red stripe) FIFC... Primary group code
LHPVC DTA LHPVC (blue stripe) ...18191 Table + Finish code
...18292

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm app.	6.1	7.2	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm app.	12.4	13.5	14.6	14.6	16.0	17.2	18.4	19.9	21.9	23.9
Diameter over lead sheath	mm app.	36.5	39.0	41.5	41.0	44.5	47.0	49.5	53.0	57.5	62.0
Bedding diameter	mm app.	40.0	41.5	44.5	44.0	47.5	50.5	53.0	56.5	61.5	66.0
Thickness of DSTA	mm	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Overall diameter	mm app.	47.0	49.5	53.5	53.0	56.5	60.0	63.0	66.5	71.5	76.5
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	5.3	6.2	7.1	7.8	9.2	10.4	11.8	13.6	16.5	19.2
Gross mass (drum length)	kg app.	2890	3410	2313	2523	3160	3520	3885	4425	5375	6425
Bending radius	mm min.	564	594	642	636	678	720	756	798	858	918
Current rating											
In ground	Amps	105	125	150	180	220	250	280	320	370	415
In ducts	Amps	90	110	125	155	185	215	240	270	315	355
In air	Amps	105	125	150	185	230	265	300	345	405	465
Positive sequence											
Resistance dc @ 20°C	Ω/km max	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601
ac @ 70°C	Ω/km max	0.870	0.627	0.463	0.321	0.232	0.184	0.149	0.120	0.0924	0.0747
Reactance	Ω/km	0.110	0.105	0.101	0.082	0.077	0.075	0.073	0.070	0.068	0.066
Impedance	Ω/km	0.877	0.636	0.474	0.331	0.244	0.199	0.166	0.139	0.115	0.100
Zero sequence											
Resistance	Ω/km	4.805	4.076	3.497	3.236	2.785	2.591	2.307	2.040	1.703	1.507
Reactance	Ω/km	0.151	0.144	0.136	0.139	0.132	0.127	0.123	0.118	0.113	0.109
Impedance	Ω/km	4.807	4.079	3.500	3.239	2.788	2.594	2.310	2.043	1.707	1.511
Short circuit ratings											
Symmetrical	kA (1sec)	3.7	5.1	6.9	9.9	13.8	17.4	21.5	26.9	35.3	44.3
Earth fault(Symmetrical limit)	kA (1sec)	4.4	5.0	5.7	6.0	6.8	7.2	8.1	9.0	10.8	12.1

* Circular Conductor

When ordering please quote: primary + size + table + finish code
e.g. FIFC 3120 18 191



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PILC/PILAC 6.35/11kV copper FIFC... Primary group code
 FRPVC DTA FRPVC (red stripe) ...19191 Table + Finish code
 LHPVC DTA LHPVC (blue stripe) ...19292

Copper 3 Core
 6350/11000V
 Table 19
 SANS 97

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm app.	6.1	7.2	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm app.	12.9	14.0	15.1	15.1	16.5	17.7	18.9	20.4	22.4	24.4
Diameter over lead sheath	mm app.	33.0	35.5	38.0	37.5	41.0	43.5	46.0	49.5	54.0	58.5
Bedding diameter	mm app.	36.0	38.0	41.0	40.5	44.0	46.5	49.5	53.0	58.0	62.0
Thickness of DSTA	mm	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Overall diameter	mm app.	44.0	46.5	49.0	49.0	52.5	55.5	59.0	63.0	67.5	72.5
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	4.8	5.4	6.2	7.0	8.3	9.4	10.9	12.6	15.3	18.0
Gross mass (drum length)	kg app.	2900	3200	2360	2600	2990	3320	3770	4280	5090	5900
Bending radius	mm min.	528	558	588	588	630	666	708	756	810	870
Current rating											
In ground	Amps	115	140	165	200	240	270	300	340	395	440
In ducts	Amps	96	115	135	165	200	225	250	285	330	370
In air	Amps	120	145	175	210	255	295	330	380	445	510
Positive sequence											
Resistance dc @ 20°C	Ω/km max	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601
ac @ 70°C	Ω/km max	0.870	0.627	0.463	0.321	0.232	0.184	0.150	0.1201	0.0923	0.0746
Reactance	Ω/km	0.115	0.109	0.105	0.086	0.081	0.078	0.076	0.073	0.070	0.068
Impedance	Ω/km	0.878	0.637	0.475	0.333	0.245	0.200	0.168	0.141	0.116	0.101
Zero sequence											
Resistance	Ω/km	5.212	4.671	3.984	3.704	3.164	2.934	2.596	2.281	1.887	1.659
Reactance	Ω/km	0.117	0.113	0.109	0.111	0.106	0.103	0.100	0.097	0.094	0.091
Impedance	Ω/km	5.213	4.672	3.985	3.706	3.166	2.936	2.598	2.283	1.889	1.661
Short circuit ratings											
Symmetrical	kA (1sec)	3.7	5.1	6.9	9.9	13.8	17.4	21.5	26.9	35.3	44.3
Earth fault (Symmetrical limit)	kA (1sec)	4.0	4.3	4.9	5.1	5.9	6.3	7.1	8.0	9.7	11.0

* Circular Conductor
 When ordering please quote: primary + size + table + finish code
 e.g. FIFC 3120 19 191



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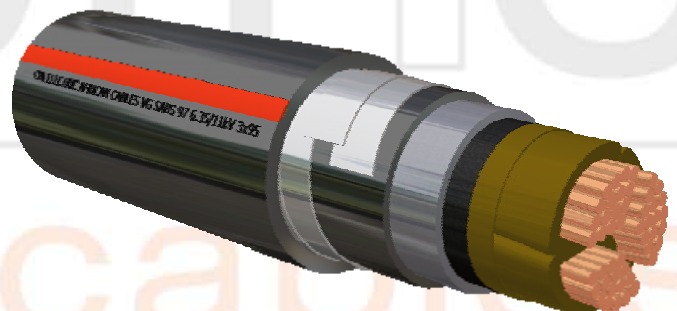


Copper 3 Core
I 1000/I 1000V
Table 26
SANS 97

PILC/PILAC FIFC... Primary group code
FRPVC DTA FRPVC (red stripe) ...26191 Table + Finish code
LHPVC DTA LHPVC (blue stripe) ...26292

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm app.	6.1	7.2	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm app.	13.6	14.7	15.8	15.8	17.2	18.4	19.6	21.1	23.1	25.1
Diameter over lead sheath	mm app.	41.0	43.5	46.0	45.5	48.5	51.5	54.0	57.5	62.0	66.5
Bedding diameter	mm app.	44.0	46.5	49.0	49.0	52.0	55.0	58.5	62.0	66.5	71.0
Thickness of DSTA	mm	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Overall diameter	mm app.	52.5	55.5	58.0	58.0	61.5	64.5	68.0	72.5	77.5	82.0
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	6.3	7.1	8.0	8.9	10.3	11.7	13.2	15.2	17.8	20.6
Gross mass (drum length)	kg app.	3580	3980	2760	3030	3520	3940	4390	4990	6010	6850
Bending radius	mm min.	630	666	696	696	738	774	816	870	930	984
Current rating											
In ground	Amps	110	135	145	180	215	245	275	310	360	410
In ducts	Amps	97	115	130	155	185	210	240	270	310	350
In air	Amps	115	140	150	180	220	260	290	335	395	450
Positive sequence											
Resistance dc @ 20°C	Ω/km max	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601
ac @ 70°C	Ω/km max	0.899	0.648	0.463	0.321	0.232	0.184	0.150	0.120	0.0923	0.0746
Reactance	Ω/km	0.116	0.111	0.106	0.087	0.082	0.079	0.077	0.074	0.071	0.069
Impedance	Ω/km	0.906	0.657	0.475	0.333	0.246	0.200	0.168	0.141	0.116	0.101
Zero sequence											
Resistance	Ω/km	4.177	3.552	3.045	2.809	2.434	2.167	1.944	1.733	1.525	1.357
Reactance	Ω/km	0.160	0.153	0.147	0.150	0.142	0.137	0.132	0.127	0.122	0.117
Impedance	Ω/km	4.180	3.556	3.048	2.813	2.438	2.171	1.948	1.738	1.529	1.362
Short circuit ratings											
Symmetrical	kA (1sec)	3.5	4.9	6.9	9.9	13.8	17.4	2.2	26.9	35.3	44.3
Earth fault (Symmetrical limit)	kA (1sec)	5.3	6.0	6.7	7.0	7.9	8.8	9.7	10.8	12.1	13.5

* Circular Conductor
When ordering please quote: primary + size + table + finish code
e.g. FIFC 3120 26 191



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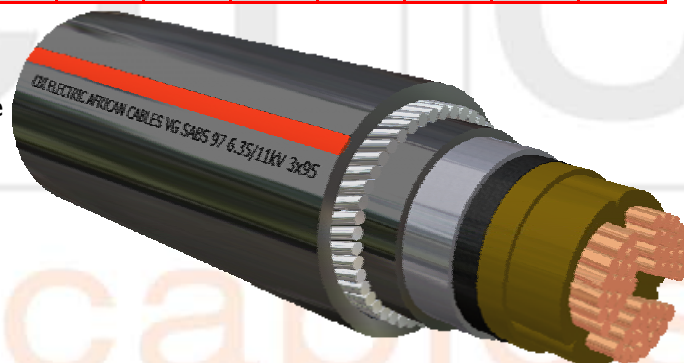
Copper 3 Core
6350/11000V
Table 17
SANS 97

PILC/PILAC FIFC... Primary group code
FRPVC SWA FRPVC (red stripe) ...17111 Table + Finish code
LHPVC SWA LHPVC (blue stripe) ...17212

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm app.	6.1	7.2	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm app.	12.4	13.5	14.6	14.6	16.0	17.2	18.4	19.9	21.9	23.9
Diameter over lead sheath	mm app.	32.5	34.5	37.0	36.5	40.0	42.5	45.5	49.0	53.0	57.5
Bedding diameter	mm app.	35.0	37.5	40.5	39.5	43.0	46.0	49.0	52.5	56.5	61.5
Size of armour wires	mm	2.00	2.50	2.50	2.50	2.50	2.50	3.15	3.15	3.15	3.15
Overall diameter	mm app.	43.5	47.0	50.0	50.0	53.5	57.0	61.5	65.0	69.5	74.5
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	5.2	6.2	7.1	7.7	9.1	10.5	12.7	14.5	17.0	19.9
Gross mass (drum length)	kg app.	2820	3340	2460	2640	3130	3550	4210	5015	5600	6540
Bending radius	mm min.	522	564	600	600	642	684	738	780	834	894
Current rating											
In ground	Amps	110	130	155	190	230	260	295	335	385	435
In ducts	Amps	91	110	130	160	195	220	250	280	325	365
In air	Amps	110	130	160	200	245	280	320	370	430	495
Positive sequence											
Resistance dc @ 20°C	Ω/km max	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601
ac @ 70°C	Ω/km max	0.870	0.627	0.463	0.321	0.232	0.184	0.149	0.1201	0.0924	0.0747
Reactance	Ω/km	0.110	0.105	0.101	0.082	0.077	0.075	0.073	0.070	0.068	0.066
Impedance	Ω/km	0.877	0.636	0.474	0.332	0.244	0.199	0.166	0.139	0.115	0.099
Zero sequence											
Resistance	Ω/km	2.491	1.927	1.673	1.525	1.321	1.181	0.934	0.842	0.759	0.680
Reactance	Ω/km	0.126	0.120	0.115	0.117	0.112	0.108	0.105	0.102	0.098	0.094
Impedance	Ω/km	2.494	1.931	1.677	1.529	1.326	1.186	0.940	0.848	0.765	0.686
Short circuit ratings											
Symmetrical	kA (1sec)	3.7	5.1	6.9	9.9	13.8	17.4	21.5	26.9	35.3	44.3
Earth fault(Symmetrical limit)	kA (1sec)	12.6	15.9	17.0	17.1	18.8	20.5	26.2	28.4	30.7	33.7

* Circular Conductor

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e.g. FIFC 3120 17 111



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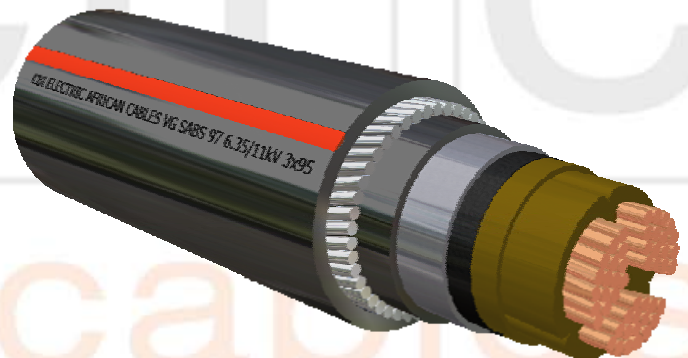
Copper 3 Core
I 1000/I 1000V
Table 18
SANS 97

PILC/PILAC
FRPVC SWA FRPVC (red stripe) FIFC... Primary group code
LHPVC SWA LHPVC (blue stripe) ...18111 Table + Finish code
...18212

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm app.	6.1	7.2	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm app.	12.4	13.5	14.6	14.6	16.0	17.2	18.4	19.9	21.9	23.9
Diameter over lead sheath	mm app.	36.5	39.0	41.5	41.0	44.5	47.0	49.5	53.0	58.0	62.0
Bedding diameter	mm app.	39.0	41.5	44.5	44.0	47.5	50.5	53.0	56.5	62.0	66.0
Size of armour wires	mm	2.50	2.50	2.50	2.50	3.15	3.15	3.15	3.15	3.15	3.15
Overall diameter	mm app.	49.0	51.5	55.0	54.5	59.5	63.0	66.0	69.5	74.5	79.5
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	6.5	7.2	8.3	8.9	11.1	12.4	13.9	15.9	18.9	21.8
Gross mass (drum length)	kg app.	3650	4000	2890	3070	3730	4065	4515	5185	6195	7205
Bending radius	mm min.	588	618	660	654	714	756	792	834	894	954
Current rating											
In ground	Amps	105	125	150	180	220	250	280	320	370	420
In ducts	Amps	90	110	130	155	190	215	240	275	320	360
In air	Amps	105	125	150	190	230	265	305	350	410	470
Positive sequence											
Resistance dc @ 20°C	Ω/km max	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601
ac @ 70°C	Ω/km max	0.870	0.627	0.463	0.321	0.232	0.184	0.149	0.1200	0.0923	0.0747
Reactance	Ω/km	0.110	0.105	0.101	0.082	0.077	0.075	0.073	0.070	0.068	0.066
Impedance	Ω/km	0.877	0.636	0.474	0.331	0.244	0.199	0.166	0.139	0.115	0.099
Zero sequence											
Resistance	Ω/km	2.112	1.771	1.509	1.361	1.040	0.946	0.860	0.777	0.680	0.612
Reactance	Ω/km	0.150	0.143	0.136	0.139	0.132	0.127	0.123	0.118	0.113	0.109
Impedance	Ω/km	2.117	1.777	1.515	1.368	1.048	0.954	0.869	0.786	0.689	0.622
Short circuit ratings											
Symmetrical	kA (1sec)	3.7	5.1	6.9	9.9	13.8	17.4	21.5	26.9	35.3	44.3
Earth fault(Symmetrical limit)	kA (1sec)	16.6	18.0	19.6	19.6	25.5	27.0	28.9	31.1	34.6	37.7

* Circular Conductor

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e.g. FIFC 3120 18 111



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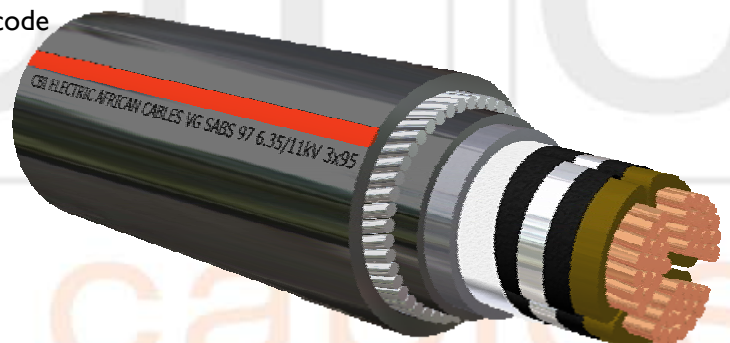
Copper 3 Core
6350/11000V
Table 19
SANS 97

PILC/PILAC FIFC... Primary group code
FRPVC SWA FRPVC (red stripe) ...19111 Table + Finish code
LHPVC SWA LHPVC (blue stripe) ...19212

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm app.	6.1	7.2	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm app.	12.8	14.0	15.1	15.1	16.5	17.7	18.9	20.4	22.4	24.4
Diameter over lead sheath	Mm app.	33.0	35.5	38.0	37.5	41.0	43.5	46.0	49.5	54.0	58.5
Bedding diameter	mm app.	36.0	38.0	41.0	40.5	44.0	46.5	49.5	53.0	58.0	62.0
Size of armour wires	mm	2.00	2.50	2.50	2.50	2.50	2.50	3.15	3.15	3.15	3.15
Overall diameter	mm app.	44.5	48.0	51.0	51.0	54.5	57.0	62.0	65.5	70.5	75.5
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	5.3	6.4	7.9	8.0	9.5	10.6	12.9	14.8	17.6	20.5
Gross mass (drum length)	kg app.	3150	3700	2870	2900	3350	3680	4370	4940	5780	6650
Bending radius	mm min.	534	576	612	612	654	684	744	786	846	906
Current rating											
In ground	Amps	115	140	165	200	240	270	305	345	395	445
In ducts	Amps	97	115	135	165	200	225	255	285	330	375
In air	Amps	120	145	175	210	260	295	335	385	455	520
Positive sequence											
Resistance dc @ 20°C	Ω/km max	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601
ac @ 70°C	Ω/km max	0.870	0.627	0.463	0.321	0.232	0.184	0.150	0.1201	0.0923	0.0746
Reactance	Ω/km	0.115	0.109	0.105	0.086	0.081	0.078	0.076	0.073	0.070	0.068
Impedance	Ω/km	0.878	0.637	0.475	0.333	0.245	0.200	0.168	0.141	0.116	0.101
Zero sequence											
Resistance	Ω/km	2.454	1.900	1.628	1.474	1.277	1.171	0.923	0.832	0.726	0.653
Reactance	Ω/km	0.117	0.113	0.109	0.111	0.106	0.103	0.100	0.097	0.094	0.091
Impedance	Ω/km	2.457	1.903	1.632	1.478	1.281	1.176	0.928	0.838	0.732	0.659
Short circuit ratings											
Symmetrical	kA (1sec)	3.7	5.0	6.9	9.9	13.8	17.4	21.5	26.9	35.3	44.3
Earth fault(Symmetrical limit)	kA (1sec)	12.9	16.2	17.6	17.8	19.5	20.7	26.6	28.8	32.2	35.1

* Circular Conductor

When ordering please quote: primary + size + table + finish code
e.g. FIFC 3120 19 111



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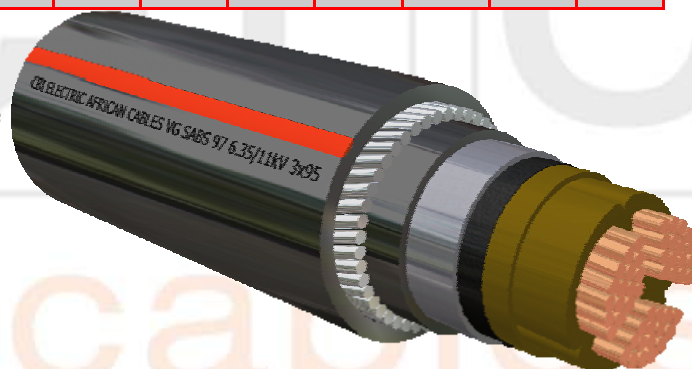
Copper 3 Core
11000/11000V
Table 26
SANS 97

PILC/PILAC FIFC... Primary group code
FRPVC SWA FRPVC (red stripe) ...26111 Table + Finish code
LHPVC SWA LHPVC (blue stripe) ...26212

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm app.	6.1	7.2	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm app.	13.6	14.7	15.8	15.8	17.3	18.5	19.7	21.2	23.2	25.1
Diameter over lead sheath	mm app.	41.0	43.5	46.0	45.5	48.5	51.5	54.0	57.5	62.0	66.5
Bedding diameter	mm app.	44.0	46.5	49.0	49.0	52.0	55.0	58.5	62.0	66.5	71.0
Size of armour wires	mm	2.50	2.50	2.50	3.15	3.15	3.15	3.15	3.15	3.15	3.15
Overall diameter	mm app.	54.0	57.0	60.0	61.0	64.5	67.5	71.0	75.5	80.5	85.0
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	7.5	8.3	9.3	10.8	12.4	13.9	15.5	17.6	20.5	23.4
Gross mass (drum length)	kg app.	4180	4580	3220	3670	4150	4600	5080	5950	6820	7520
Bending radius	mm min.	648	684	720	732	774	810	852	906	966	1020
Current rating											
In ground	Amps	100	125	145	180	215	245	275	315	365	410
In ducts	Amps	89	110	130	155	185	215	240	270	315	355
In air	Amps	105	125	150	185	225	260	295	340	400	460
Positive sequence											
Resistance dc @ 20°C	Ω/km max	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601
ac @ 70°C	Ω/km max	0.870	0.627	0.463	0.321	0.232	0.184	0.150	0.1201	0.0923	0.0746
Reactance	Ω/km	0.116	0.111	0.106	0.088	0.082	0.080	0.077	0.074	0.072	0.069
Impedance	Ω/km	0.878	0.637	0.475	0.333	0.246	0.200	0.168	0.141	0.116	0.101
Zero sequence											
Resistance	Ω/km	1.956	1.633	1.395	1.106	0.956	0.860	0.780	0.703	0.627	0.568
Reactance	Ω/km	0.160	0.153	0.147	0.150	0.142	0.137	0.132	0.127	0.122	0.117
Impedance	Ω/km	1.962	1.640	1.403	1.116	0.966	0.871	0.791	0.715	0.639	0.580
Short circuit ratings											
Symmetrical	kA (1sec)	3.7	5.1	6.9	9.9	13.8	17.4	21.5	26.9	35.3	44.3
Earth fault (Symmetrical limit)	kA (1sec)	18.9	20.3	21.9	26.2	28.4	30.3	32.4	34.9	37.9	41.0

* Circular Conductor

When ordering please quote: primary + size + table + finish code
e.g. FIFC 3120 26 111



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PILC/PILAC
 FRPVC AWA FRPVC (red stripe) ...30141
 LHPVC AWA LHPVC (blue stripe) ...30242
 ZTX AWA ZTX (white stripe) ...30343

FIFC... Primary group code
 Table + Finish code

Copper I Core
 6350/11000V
 Table 10
 SANS 97

Size code	...naaa...	I 150	I 185	I 240	I 300	I 400	I 500	I 630	I 800	I 999
Conductor size	mm ² nom	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	14.7	16.5	18.8	21.2	23.9	27.4	30.3	34.2	38.9
Insulated diameter	mm app.	22.7	24.5	26.8	29.2	31.9	35.4	38.3	42.2	46.9
Diameter over lead sheath	mm app.	28.0	30.0	32.5	35.0	37.5	41.5	44.5	49.0	53.5
Bedding diameter	mm app.	30.5	32.5	35.0	38.0	41.0	44.5	47.5	52.0	57.5
Size of armour wires	mm	2.0	2.00	2.00	2.50	2.50	2.50	2.50	2.50	3.15
Overall diameter	mm nom	38.5	41.0	43.5	47.5	51.0	54.5	58.0	62.5	69.5
Normal drum length	m	500	500	500	500	500	500	500	500	500
Cable mass	kg/m app.	4.2	4.8	5.7	6.7	8.0	9.6	11.5	13.8	17.0
Gross mass (drum length)	kg app.	2600	2900	3350	3850	4500	5300	6250	7400	9000
Bending radius	mm min.	770	820	870	950	1020	1090	1160	1250	1390
Current rating										
In ground	Amps	310	350	395	425	470	510	550	590	635
In ducts	Amps	285	315	350	385	420	460	495	525	565
In air	Amps	370	420	485	540	605	680	745	815	910
Positive sequence										
Resistance dc @ 20°C	Ω/km max	0.124	0.0991	0.0754	0.0601	0.0470	0.0366	0.0283	0.0221	0.0176
ac @ 70°C	Ω/km max	0.149	0.1196	0.0916	0.0737	0.0585	0.0468	0.0378	0.0313	0.0224
Reactance	Ω/km	0.124	0.120	0.116	0.111	0.108	0.104	0.101	0.098	0.096
Impedance	Ω/km	0.194	0.170	0.148	0.134	0.123	0.114	0.108	0.103	0.099
Zero sequence										
Resistance	Ω/km	0.324	0.284	0.244	0.187	0.164	0.142	0.126	0.112	0.082
Reactance	Ω/km	0.057	0.054	0.051	0.045	0.043	0.040	0.038	0.036	0.034
Impedance	Ω/km	1.051	1.040	1.029	1.017	1.013	1.010	1.008	1.006	1.003
Short circuit ratings										
Symmetrical	kA (1sec)	21.5	26.9	35.3	44.3	56.7	72.8	94.1	121	151
Earth fault(Symmetrical limit)	kA (1sec)	18.6	19.7	21.5	28.1	30.5	33.6	36.3	39.9	53.8

When ordering please quote: primary + size + table + finish code
 e.g. FIFC 1500 30 141



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PILC/PILAC
FRPVC (red stripe)
LHPVC (blue stripe)

FIFC... Primary group code
...30 001 Table + Finish code
...30 002

Copper I Core
6350/11000V
Table 10
SANS 97

Size code	...naaa...	1150	1185	1240	1300	1400	1500	1630	1800	1999
Conductor size	mm ² nom	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app	14.7	16.5	18.8	21.2	23.9	27.4	30.3	34.2	38.9
Insulated diameter	mm app	22.7	24.5	26.8	29.2	31.9	35.4	38.3	42.2	47.0
Diameter over lead sheath	mm app	28.0	30.0	32.5	35.0	37.5	41.5	44.5	49.0	53.5
Overall diameter	mm app	31.0	33.0	35.5	38.0	41.0	45.0	48.5	53.0	58.0
Cable mass	kg/m app.	3.4	3.9	4.7	5.5	6.6	8.1	9.9	12.1	14.7
Gross mass (drum length)	kg app.	2200	2450	2850	3250	3800	4550	5450	6550	7850
Bending radius	mm min.	620	660	710	760	820	900	970	1060	1160
Current rating										
In ground	Amps	325	365	425	480	540	610	680	750	880
In ducts	Amps	295	335	385	435	490	550	615	670	790
In air	Amps	370	430	505	580	675	780	885	995	1210
Positive sequence										
Resistance dc @ 20°C	Ω/km max	0.1240	0.0991	0.0754	0.0601	0.0470	0.0366	0.0283	0.0221	0.0176
ac @ 70°C	Ω/km max	0.149	0.120	0.0918	0.0740	0.0590	0.0474	0.0386	0.0322	0.0228
Reactance	Ω/km	0.111	0.107	0.103	0.097	0.095	0.092	0.089	0.087	0.085
Impedance	Ω/km	0.186	0.160	0.138	0.122	0.112	0.103	0.097	0.093	0.088
Zero sequence										
Resistance	Ω/km	1.880	1.735	1.487	1.365	1.177	1.006	0.880	0.761	0.653
Reactance	Ω/km	0.057	0.054	0.051	0.045	0.043	0.040	0.038	0.036	0.034
Impedance	Ω/km	1.881	1.736	1.488	1.366	1.178	1.007	0.881	0.762	0.654
Short circuit ratings										
Symmetrical	kA (1sec)	21.5	26.9	35.3	44.3	56.7	72.8	94.1	121	151
Earth fault (Symmetrical limit)	kA (1sec)	3.6	3.9	4.5	4.9	5.6	6.5	7.4	8.6	9.9

When ordering please quote: primary + size + table + finish code
e.g. FIFC 1500 30 001



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PILC/PILAC	FIHC...	Primary group code
FRPVC AWA FRPVC (red stripe)	...31141	Table + Finish code
LHPVC AWA LHPVC (blue stripe)	...31242	

Copper I Core
12700/22000V
Table 11
SANS 97

Size code	...naaa...	1150	1185	1240	1300	1400	1500	1630	1800	1999
Conductor size	mm ² nom	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm nom	14.7	16.5	18.8	21.2	23.9	27.4	30.3	34.2	38.9
Insulated diameter	mm nom	27.7	29.5	31.8	34.2	36.9	40.4	43.3	47.2	52.0
Diameter over lead sheath	mm nom	33.5	35.0	37.5	40.5	43.0	46.5	50.0	54.0	59.0
Bedding diameter	mm nom	36.0	38.0	40.5	43.5	46.5	50.0	53.5	57.5	63.0
Size of armour wires	mm	2.00	2.50	2.50	2.50	2.50	2.50	3.15	3.15	3.15
Overall diameter	mm nom	44.5	48.0	50.5	53.5	56.5	60.0	65.5	70.0	75.5
Normal drum length	m	500	500	500	500	500	500	500	500	500
Cable mass	kg/m app.	5.1	5.9	6.9	7.9	9.3	10.8	13.1	15.6	18.7
Gross mass (drum length)	kg app.	3050	3450	3950	4450	5150	5900	7050	8300	9850
Bending radius	mm min.	1113	1200	1263	1338	1413	1500	1638	1750	1888
Current rating										
In ground	Amps	305	340	380	420	465	510	540	580	640
In ducts	Amps	280	310	350	380	420	455	480	515	565
In air	Amps	365	410	475	535	600	675	735	810	920
Positive sequence										
Resistance dc @ 20°C	Ω/km max	0.124	0.0991	0.0754	0.0601	0.0470	0.0366	0.0283	0.0221	0.0176
ac @ 70°C	Ω/km max	0.149	0.119	0.0915	0.0735	0.0584	0.0466	0.0375	0.0309	0.0223
Reactance	Ω/km	0.133	0.130	0.126	0.119	0.115	0.110	0.108	0.105	0.101
Impedance at 70°C	Ω/km	0.200	0.177	0.156	0.140	0.129	0.120	0.115	0.109	0.104
Zero sequence										
Resistance	Ω/km	0.298	0.233	0.197	0.172	0.150	0.132	0.101	0.089	0.076
Reactance	Ω/km	0.068	0.064	0.061	0.054	0.051	0.048	0.045	0.043	0.040
Impedance	Ω/km	0.305	0.241	0.206	0.181	0.159	0.140	0.110	0.099	0.086
Short circuit ratings										
Symmetrical	kA (1sec)	21.5	26.9	35.3	44.3	56.7	72.8	94.1	121	151
Earth fault(Symmetrical limit)	kA (1sec)	22.0	28.3	30.5	32.7	35.3	37.9	49.9	54.1	59.9

When ordering please quote: primary + size + table + finish code
e.g. FIHC 1500 31 141



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PILC/PILAC
FRPVC (red stripe)
LHPVC (blue stripe)

FIHC... Primary group code
...31001 Table + Finish code
...31002

Copper I Core
12700/22000V
Table II
SANS 97

Size code	...naaa...	1150	1185	1240	1300	1400	1500	1630	1800	1999
Conductor size	mm ² nom	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm nom	14.7	16.5	18.8	21.2	23.9	27.4	30.3	34.2	38.9
Insulated diameter	mm nom	27.7	29.5	31.8	34.2	36.9	40.4	43.3	47.2	52.0
Diameter over lead sheath	mm nom	33.5	35.0	37.5	40.5	43.0	46.5	50.0	54.0	59.0
Overall diameter	mm nom	36.5	38.5	41.0	44.0	47.0	51.0	54.5	59.0	64.0
Normal drum length	m	500	500	500	500	500	500	500	500	500
Cable mass	kg/m app.	4.1	4.7	5.6	6.5	7.7	9.2	11.0	13.3	16.3
Gross mass (drum length)	kg app.	2550	2850	3300	3750	4350	5100	6000	7150	8650
Bending radius	mm min.	913	963	1025	1100	1175	1275	1363	1475	1600
Current rating										
In ground	Amps	320	360	420	470	535	605	670	740	865
In ducts	Amps	290	330	380	430	485	545	605	665	770
In air	Amps	370	425	500	580	670	770	875	985	1185
Positive sequence										
Resistance dc @ 20°C	Ω/km max	0.1240	0.0991	0.0754	0.0601	0.0470	0.0366	0.0283	0.0221	0.0176
ac @ 70°C	Ω/km max	0.149	0.120	0.092	0.074	0.059	0.047	0.038	0.032	0.023
Reactance	Ω/km	0.121	0.116	0.112	0.106	0.103	0.100	0.097	0.094	0.091
Impedance at 70°C	Ω/km	0.192	0.167	0.145	0.129	0.118	0.110	0.104	0.099	0.094
Zero sequence										
Resistance	Ω/km	1.504	1.399	1.214	1.063	0.930	0.850	0.751	0.657	0.544
Reactance	Ω/km	0.068	0.064	0.061	0.054	0.051	0.048	0.045	0.043	0.040
Impedance	Ω/km	1.506	1.400	1.216	1.064	0.932	0.851	0.752	0.658	0.546
Short circuit ratings										
Symmetrical	kA (1sec)	21.5	26.9	35.3	44.3	56.7	72.8	94.1	121	151
Earth fault(Symmetrical limit)	kA (1sec)	4.6	4.9	5.6	6.3	7.2	7.8	8.8	10.0	12.0

When ordering please quote: primary + size + table + finish code
e.g. FIHC 1500 31 001



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PILC/PILAC	FIHC...	Primary group code
FRPVC DTA FRPVC(red stripe)	...20191	Table + Finish code
LHPVC DTA LHPVC(blue stripe)	...20292	

Copper 3 Core
12700/22000V
Table 20
SANS 97

Size code	...naaa...	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	50*	70*	95*	120	150	185	240	300
Conductor depth	mm nom	8.3	10.0	11.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm nom	20.8	22.5	24.3	23.5	24.7	26.2	28.2	30.1
Diameter over lead sheath	mm nom	51.5	55.5	59.5	56.5	59.5	63.0	67.5	71.5
Bedding diameter	mm nom	55.0	59.0	63.0	60.0	63.0	67.0	71.5	75.5
Thickness of DSTA	mm	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Overall diameter	mm nom	64.5	68.5	73.0	70.5	73.5	77.5	82.5	87.0
Normal drum length	m	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	9.4	10.8	12.5	13.2	14.8	16.8	19.6	22.6
Gross mass (drum length)	kg app.	3270	3690	4200	4410	4890	5490	6330	7230
Bending radius	mm min.	968	1028	1095	1058	1103	1163	1238	1305
Current rating									
In ground	Amps	160	195	235	270	300	340	390	435
In ducts	Amps	140	170	200	230	255	290	330	370
In air	Amps	170	215	260	300	340	385	450	510
Positive sequence									
Resistance dc @ 20°C	Ω/km max	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601
ac @ 70°C	Ω/km max	0.463	0.321	0.232	0.184	0.149	0.1198	0.0919	0.0740
Reactance	Ω/km	0.126	0.116	0.109	0.096	0.092	0.088	0.085	0.081
Impedance at 70°C	Ω/km	0.480	0.341	0.256	0.207	0.175	0.149	0.125	0.110
Zero sequence									
Resistance	Ω/km	2.538	2.155	1.858	1.827	1.649	1.480	1.312	1.175
Reactance	Ω/km	0.122	0.117	0.112	0.117	0.114	0.110	0.107	0.103
Impedance	Ω/km	2.541	2.158	1.861	1.831	1.653	1.485	1.316	1.179
Short circuit ratings									
Symmetrical	kA (1sec)	6.9	9.9	13.8	17.4	21.5	26.9	35.3	44.3
Earth fault(Symmetrical limit)	kA (1sec)	8.4(6.9)	9.5	10.7	10.6	11.6	12.8	14.2	15.8

* Circular Conductor

When ordering please quote: primary + size + table + finish code
e.g. FIHC 3120 20 191



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Copper I Core

PILC/PILAC
FRPVC AWA FRPVC (red stripe)
LHPVC AWA LHPVC (blue stripe)

FIJC...
...32141
...32242

Primary group code
Table + Finish code

19000/33000V
Table 12
SANS 97

Size code	...naaa...	1150	1185	1240	1300	1400	1500	1630	1800	1999
Conductor size	mm ² nom	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	14.7	16.5	18.8	21.2	23.9	27.4	30.3	34.2	38.9
Insulated diameter	mm app.	29.7	31.5	33.8	36.2	38.9	42.4	45.3	49.2	54
Diameter over lead sheath	mm app.	35.5	37.5	40	42.5	45	49	52	56.5	61.5
Bedding diameter	mm app.	38.5	40.5	43	45.5	48.5	52	55.5	60	65
Size of armour wires	mm	2.5	2.5	2.5	2.5	2.5	2.5	3.15	3.15	3.15
Overall diameter	mm app.	48.5	50.5	53	55.5	58.5	62.5	68	72.5	77.5
Normal drum length	m	500	500	500	500	500	500	500	500	500
Cable mass	kg/m app.	5.8	6.4	7.4	8.3	9.7	11.4	13.8	16.3	19.2
Gross mass (drum length)	kg app.	3400	3700	4200	4650	5350	6200	7400	8650	10100
Bending radius	mm min.	1213	1263	1325	1388	1463	1563	1700	1813	1938
Current rating										
In ground	Amps	300	335	380	420	460	505	540	575	635
In ducts	Amps	275	305	345	380	415	450	480	510	560
In air	Amps	360	410	470	530	600	670	735	805	915
Positive sequence										
Resistance dc @ 20°C	W/km max	0.124	0.099	0.075	0.06	0.047	0.037	0.028	0.022	0.018
ac @ 70°C	W/km max	0.149	0.119	0.091	0.074	0.058	0.047	0.037	0.031	0.022
Reactance	W/km	0.138	0.134	0.129	0.121	0.117	0.113	0.111	0.107	0.103
Impedance	W/km	0.203	0.179	0.158	0.142	0.131	0.122	0.117	0.111	0.106
Zero sequence										
Resistance	W/km	0.261	0.226	0.191	0.168	0.147	0.128	0.098	0.087	0.075
Reactance	W/km	0.072	0.068	0.064	0.058	0.054	0.051	0.048	0.045	0.042
Impedance	W/km	0.271	0.236	0.202	0.178	0.156	0.138	0.109	0.098	0.086
Short circuit ratings										
Symmetrical	kA (1sec)	21.5	26.9	35.3	44.3	56.7	72.8	94.1	121	151
Earth fault(Symmetrical limit)	kA (1sec)	28.9	30.3	32.4	34.3	36.8	40	52.3	56.6	61.8

When ordering please quote: primary + size + table + finish code
e.g. FIJC 1500 32 141



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

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PILC/PILAC
FRPVC (red stripe)
LHPVC (blue stripe)

FIJC... Primary group code
...32001 Table + Finish code
...32002

Copper 1 Core
1900/3300V
Table 12
SANS 97

Size code	...naaa...	1150	1185	1240	1300	1400	1500	1630	1800	1999
Conductor size	mm ² nom	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	14.7	16.5	18.8	21.2	23.9	27.4	30.3	34.2	38.9
Insulated diameter	mm app.	29.7	31.5	33.8	36.2	38.9	42.4	45.3	49.2	54.0
Diameter over lead sheath	mm app.	35.5	37.5	40.0	42.5	45.0	49.0	52.0	56.5	61.5
Overall diameter	mm app.	39.0	40.5	43.5	46.0	49.5	53.0	56.5	61.0	66.0
Normal drum length	m	500	500	500	500	500	500	500	500	500
Cable mass	kg/m app.	4.6	5.1	6.0	6.9	8.1	9.7	11.6	13.9	16.7
Gross mass (drum length)	kg app.	2800	3050	3500	3950	4550	5350	6300	7450	8850
Bending radius	mm min.	975	1013	1088	1150	1238	1325	1413	1525	1650
Current rating										
In ground	Amps	315	360	415	470	530	595	665	730	855
In ducts	Amps	290	330	380	425	480	540	600	655	760
In air	Amps	370	420	500	570	660	760	865	975	1170
Positive sequence										
Resistance dc @ 20°C	Ω/km max	0.1240	0.0991	0.0754	0.0601	0.0470	0.0366	0.0283	0.0221	0.0176
ac @ 70°C	Ω/km max	0.149	0.120	0.0916	0.0737	0.0586	0.0469	0.0379	0.0314	0.0225
Reactance	Ω/km	0.125	0.120	0.116	0.109	0.106	0.102	0.099	0.096	0.093
Impedance	Ω/km	0.194	0.170	0.148	0.132	0.121	0.112	0.106	0.101	0.096
Zero sequence										
Resistance	Ω/km	1.344	1.251	1.092	1.013	0.890	0.775	0.688	0.605	0.526
Reactance	Ω/km	0.072	0.068	0.064	0.058	0.054	0.051	0.048	0.045	0.042
Impedance	Ω/km	1.346	1.253	1.094	1.015	0.891	0.776	0.689	0.606	0.528
Short circuit ratings										
Symmetrical	kA (1sec)	21.5	26.9	35.3	44.3	56.7	72.8	94.1	121	151
Earth fault(Symmetrical limit)	kA (1sec)	5.3	5.5	6.3	6.7	7.5	8.6	9.6	10.9	12.4

When ordering please quote: primary + size + table + finish code
e.g. FIJC 1500 32 001



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

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PILC
FRPVC DTA FRPVC (red stripe)
LHPVC DTA LHPVC (blue stripe)

FIJC... Primary group code
...21191 Table + Finish code
...21292

Copper 3 Core
19000/33000V
Table 21
SANS 97

Size code	...naaa...	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	95	120	150	185	240	300
Conductor diameter	mm app.	11.8	13.2	14.7	16.5	18.8	21.2
Insulated diameter	mm app.	26.8	28.2	29.7	31.5	33.8	36.2
Diameter over lead sheath	mm app.	65.0	68.5	72.0	76.0	81.5	87.0
Bedding diameter	mm app.	69.0	72.0	76.0	80.0	85.5	91.5
Thickness of DSTA	mm	0.80	0.80	0.80	0.80	0.80	0.80
Overall diameter	mm app.	79.0	82.5	86.5	91.0	96.5	103.0
Normal drum length	m	300	300	300	300	300	300
Cable mass	kg/m app.	13.7	15.3	17.0	19.2	22.2	25.8
Gross mass (drum length)	kg app.	4610	5090	5600	6260	7160	8240
Bending radius	mm min.	1185	1238	1298	1365	1448	1545
Current rating							
In ground	Amps	230	260	295	330	380	420
In ducts	Amps	200	225	250	285	325	360
In air	Amps	255	290	330	375	435	495
Positive sequence							
Resistance dc @ 20°C	Ω/km max	0.193	0.153	0.124	0.0991	0.0754	0.0601
ac @ 70°C	Ω/km max	0.231	0.184	0.149	0.1198	0.0919	0.0741
Reactance	Ω/km	0.115	0.111	0.108	0.104	0.100	0.097
Impedance	Ω/km	0.258	0.215	0.184	0.158	0.136	0.121
Zero sequence							
Resistance	Ω/km	1.649	1.477	1.332	1.192	1.058	0.914
Reactance	Ω/km	0.118	0.115	0.111	0.108	0.104	0.101
Impedance	Ω/km	1.653	1.482	1.337	1.197	1.063	0.919
Short circuit ratings							
Symmetrical	kA (1sec)	13.8	17.4	21.5	26.9	35.3	44.3
Earth fault (Symmetrical limit)	kA (1sec)	12.3	13.4	14.7	16.2	18.0	20.7

When ordering please quote: primary + size + table + finish code
e.g. FIJC 3120 21 191



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

A member of the REUNERT Group



Description:	3800/6600V, Aluminium, 1 Core, Type	F2EA...
Bedding/ Sheathing:	A FRPVC/AWA/FRPVC (red stripe) LHPVC/AWA/LHPVC (blue stripe)	...141 ...242
Specification:	SANS 1339	

Size code	...n/a...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
PHYSICAL DIMENSIONS														
Conductor size	mm nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.50	10.00	12.00	13.50	15.00	16.50	19.00	21.50	24.00	27.50	31.50	35.00	39.00
Insulation diameter	mm app.	15.00	17.00	18.50	20.00	21.50	23.00	26.00	28.50	33.50	37.50	41.50	45.50	50.00
Bedding diameter	mm app.	20.00	21.50	23.50	24.50	26.00	28.00	30.50	33.50	38.00	42.50	46.50	51.00	55.00
Armour diameter	mm app.	23.00	24.50	26.50	28.00	29.50	32.00	34.50	37.50	42.00	47.50	51.50	56.00	60.00
Cable diameter	mm app.	27.00	29.00	31.00	32.00	34.00	37.00	40.00	42.00	47.00	53.00	58.00	62.00	67.00
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	0.96	1.09	1.26	1.38	1.53	1.79	2.09	2.41	2.99	3.69	4.36	5.08	6.0
Gross mass (500 m)	kg app.	655	715	850	910	990	1120	1390	1550	1855	2335	2670	3295	3825
Bending radius	mm min.	540	580	620	640	680	740	800	840	940	1060	1160	1240	1340
DC Resistance @ 20°C	Ω/km	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.078	0.061	0.047	0.037	0.029
AC Resistance @ 90°C	Ω/km	0.822	0.568	0.411	0.325	0.265	0.211	0.162	0.130	0.102	0.081	0.064	0.052	0.044
Reactance	Ω/km	0.136	0.128	0.121	0.115	0.112	0.111	0.107	0.102	0.102	0.101	0.098	0.096	0.094
Impedance	Ω/km	0.833	0.582	0.428	0.345	0.288	0.239	0.194	0.166	0.144	0.129	0.117	0.109	0.103
Capacitance	µF/km	0.523	0.518	0.662	0.722	0.782	0.841	0.831	0.918	0.644	0.672	0.752	0.771	0.797
Zero Sequence Resistance	Ω/km	1.141	0.863	0.683	0.530	0.458	0.383	0.319	0.274	0.229	0.174	0.149	0.129	0.113
Zero Sequence Reactance	Ω/km	0.079	0.070	0.064	0.059	0.056	0.054	0.050	0.048	0.048	0.047	0.044	0.043	0.041
Current rating:														
In ground	Amps	161	195	233	264	294	328	376	421	472	519	570	621	664
In air in shade	Amps	186	230	280	324	365	415	485	555	636	719	805	897	976
In air in direct sunlight	Amps	149	184	223	258	290	329	383	438	500	562	628	698	757
Short circuit ratings:														
Symmetrical (250°C)	kA (1sec)	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9	33.3	42.8	55.2	70.6	89.0
Earth fault (200°C)	kA (1sec)	9.8	10.5	11.4	12.0	12.7	16.5	18.0	19.6	22.2	30.1	32.8	35.9	38.6

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal resistance

= 1.2Km/W

Soil temperature = 25°C

Depth of burial = 800mm

Air temperature = 30°C

5% tolerance on dimensions

Ratings for solid bonded, Trefoil formation

african cables

Description: 3800/6600, Aluminium, 1 Core, Type B F2EA...
Sheathing: FRPVC (red stripe) ...081
 LHPVC (blue stripe) ...082
Specification: SANS 1339

Size code	...n/a...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	19
PHYSICAL DIMENSIONS														
Conductor size	mm nom	50	70	95	120	150	185	240	300	400	500	630	800	10
Conductor diameter	mm app.	8.50	10.00	12.00	13.50	15.00	16.50	19.00	21.50	24.00	27.50	31.50	35.00	39.00
Insulation diameter	mm app.	15.00	17.00	18.50	20.00	21.50	23.00	26.00	28.50	33.50	37.50	41.50	45.50	50.00
Cable diameter	mm app.	21.00	23.00	25.00	27.00	28.00	30.00	33.00	36.00	41.00	45.00	49.00	54.00	58.00
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	50
Cable mass (approximate)	kg/m	0.66	0.77	0.91	1.03	1.06	1.21	1.45	1.73	2.20	2.67	3.21	3.83	4.5
Gross mass (500 m)	kg app.	480	540	605	670	670	777	950	1085	1450	1680	2080	2405	27
Bending radius	mm min.	420	460	500	540	560	600	660	720	820	900	980	1080	75/11
DC Resistance @ 20°C	Ω/km	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.078	0.061	0.047	0.037	0.0
AC Resistance @ 90°C	Ω/km	0.822	0.568	0.411	0.325	0.265	0.211	0.162	0.130	0.102	0.081	0.064	0.052	0.0
Reactance	Ω/km	0.121	0.113	0.107	0.105	0.100	0.098	0.095	0.093	0.093	0.091	0.087	0.087	0.0
Impedance	Ω/km	0.831	0.579	0.424	0.341	0.283	0.233	0.188	0.160	0.138	0.121	0.109	0.102	0.0
Capacitance	µF/km	0.523	0.518	0.662	0.722	0.782	0.841	0.831	0.918	0.644	0.672	0.752	0.771	0.5/7
Current rating:														
In ground	Amps	159	195	232	264	296	333	386	434	495	562	635	703	77
In air in shade	Amps	176	221	270	312	355	406	483	555	648	756	876	987	11
In air in direct sunlight	Amps	143	178	217	250	284	325	385	440	512	595	688	772	86
Short circuit ratings:														
Symmetrical (250°C)	kA (1sec)	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9	33.3	42.8	55.2	70.6	89.
Earth fault (200°C)	kA (1sec)	1.8	2.0	2.2	2.4	2.5	2.7	3.0	3.3	3.8	4.2	4.6	5.1	5.

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal resistance

= 1.2Km/W

Soil temperature = 25°C

Depth of burial = 800mm

Air temperature = 30°C

5% tolerance on dimensions

Ratings for solid bonded, Trefoil formation

Description:	3800/6600V, Aluminium, 3 Core, Type	F2EA...
Bedding / Sheathing:	A FRPVC/ SWA/ FRPVC (red stripe)	...111
Specification:	LHPVC/ SWA/ LHPVC (blue stripe)	...212
	SANS 1339	

Size code	...n/a...	3016	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DIMENSIONS												
Conductor size	mm nom	16	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	4.8	6.0	7.2	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4
Insulation diameter	mm app.	11.6	12.8	14.0	15.2	16.7	18.5	20.2	21.4	23.2	25.8	27.8
Bedding diameter	mm app.	32.6	35.2	37.8	40.6	43.8	47.9	51.8	54.4	58.5	64.3	68.8
Armour diameter	mm app.	36.6	39.2	41.8	45.6	48.8	52.9	56.8	59.4	64.8	70.6	75.1
Cable diameter	mm app.	41.1	43.7	46.5	50.7	54.1	58.4	62.5	65.3	70.9	77.2	82.3
TECHNICAL DATA												
Normal drum length	m	300	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	2.9	3.3	3.5	4.4	4.9	5.5	6.2	6.6	8.1	9.3	10.6
Gross mass (300 m)	kg app.	1105	1215	1285	1670	1830	2125	2355	2500	2950	3620	4005
Bending radius	mm min.	493	524	558	608	650	701	750	784	851	926	988
DC Resistance @ 20°C	Ω/km	1.910	1.200	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100
AC Resistance @ 90°C	Ω/km	2.449	1.539	1.113	0.822	0.568	0.411	0.325	0.265	0.211	0.162	0.130
Reactance	Ω/km	0.129	0.120	0.114	0.109	0.101	0.096	0.093	0.091	0.087	0.085	0.084
Impedance	Ω/km	2.452	1.543	1.119	0.829	0.577	0.422	0.338	0.280	0.229	0.183	0.155
Capacitance	μF/km	0.239	0.272	0.305	0.338	0.380	0.429	0.475	0.508	0.557	0.601	0.602
Zero Sequence Resistance	Ω/km	4.100	3.066	2.534	1.969	1.630	1.384	1.227	1.123	0.892	0.782	0.710
Zero Sequence Reactance	Ω/km	0.152	0.143	0.136	0.133	0.126	0.120	0.116	0.113	0.111	0.107	0.105
Current rating:												
In ground	Amps	82	105	125	147	180	214	243	271	305	351	392
In air in shade	Amps	86	112	136	162	200	242	278	313	358	418	470
In air in direct sunlight	Amps	76	99	120	143	176	212	243	273	312	364	409
Short circuit ratings:												
Symmetrical (250°C)	kA (1sec)	1.4	2.2	3.0	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9
Earth fault (200°C)	kA (1sec)	10.6	11.5	12.3	16.1	17.3	18.8	20.3	21.3	28.2	30.9	33.0

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal

resistance = 1.2 Km/W

Soil temperature = 25 °C

Depth of burial = 800 mm

Air temperature = 30 °C

Single circuit in isolation

5% tolerance on dimensions

african cables

Description: 3800/6600V, Aluminium, 3 Core, Type F2EA...
Sheathing: B FRPVC (red stripe) ...001
 LHPVC (blue stripe) ...002
Specification: SANS 1339

Size code	...n/a...	3016	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DIMENSIONS												
Conductor size	mm nom	16	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	4.8	6.0	7.2	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4
Insulation diameter	mm app.	11.6	12.8	14.0	15.2	16.7	18.5	20.2	21.4	23.2	25.8	27.8
Bedding diameter	mm app.	30.6	33.1	35.7	38.3	41.6	45.0	48.7	51.3	55.2	60.8	65.1
Cable diameter	mm app.	34.7	37.5	40.2	43.0	46.5	50.2	54.0	56.8	60.9	67.0	71.7
TECHNICAL DATA												
Normal drum length	m	300	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	1.61	1.80	1.960	2.182	2.419	2.91	3.31	3.62	4.08	4.86	5.68
Gross mass (300 m)	kg app.	590	645	695	830	910	1080	1200	1345	1560	1805	2335
Bending radius	mm min.	520	562	604	646	697	752	810	852	914	1004	1076
DC Resistance @ 20°C	Ω/km	1.910	1.200	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100
AC Resistance @ 90°C	Ω/km	2.449	1.539	1.113	0.822	0.568	0.411	0.325	0.265	0.211	0.162	0.130
Reactance	Ω/km	0.130	0.121	0.115	0.109	0.102	0.096	0.093	0.091	0.087	0.085	0.084
Impedance	Ω/km	2.452	1.543	1.119	0.829	0.577	0.422	0.338	0.280	0.229	0.183	0.155
Capacitance	µF/km	0.239	0.272	0.305	0.338	0.380	0.429	0.475	0.508	0.557	0.601	0.602
Current rating:												
In ground	Amps	85	109	130	153	186	221	251	281	318	369	414
In air in shade	Amps	89	116	140	168	209	250	289	326	375	443	504
In air in direct sunlight	Amps	79	103	124	148	184	220	254	287	329	388	440
Short circuit ratings:												
Symmetrical (250°C)	kA (1sec)	1.4	2.2	3.0	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9
Earth fault (200°C)	kA (1sec)	3.5	3.8	4.1	4.4	4.8	2.6	2.8	3.0	3.2	3.5	3.8

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal

resistance = 1.2 Km/W

Soil temperature = 25 °C

Depth of burial = 800 mm

Air temperature = 30 °C

5% tolerance on dimensions

Description:	6350/11000V, Aluminium, 1 Core, Type A	F2FA...
Bedding/ Sheathing:	FRPVC/AWA/FRPVC (red stripe)	...141
	LHPVC/AWA/LHPVC (blue stripe)	...242
Specification:	SANS 1339	

Size code	...n/a...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
PHYSICAL DIMENSIONS														
Conductor size	mm ² nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.35	10.05	11.90	13.25	14.70	16.23	18.46	20.75	24.05	27.42	30.45	34.25	38.81
Insulation diameter	mm app.	17.02	18.72	20.57	21.92	23.37	24.90	27.13	29.42	33.52	37.67	40.70	44.50	49.06
Bedding diameter	mm app.	21.87	23.57	25.42	26.77	28.22	29.75	31.98	34.27	38.37	42.73	45.96	49.76	54.53
Armour diameter	mm app.	25.07	26.77	28.62	29.97	32.22	33.75	35.98	38.27	42.37	47.73	50.96	54.76	59.53
Cable diameter	mm app.	29.54	31.45	33.30	34.85	37.31	38.84	41.27	43.56	48.07	53.63	57.07	61.08	66.25
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	1.07	1.22	1.37	1.52	1.78	1.95	2.23	2.51	3.08	3.74	4.41	5.12	60.6
Gross mass (500 m)	kg app.	710	830	910	980	1110	1320	1460	1600	2015	2360	2695	3315	3850
Bending radius	mm min.	591	629	666	697	746	777	825	871	961	1073	1141	1222	1325
DC Resistance @ 20°C	Ω/km	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.078	0.061	0.047	0.037	0.029
AC Resistance @ 90°C	Ω/km	0.822	0.568	0.411	0.325	0.265	0.211	0.162	0.130	0.102	0.081	0.064	0.052	0.044
Reactance	Ω/km	0.143	0.133	0.126	0.122	0.119	0.115	0.111	0.107	0.103	0.102	0.099	0.096	0.093
Impedance	Ω/km	0.834	0.584	0.429	0.347	0.291	0.241	0.196	0.168	0.145	0.130	0.118	0.109	0.103
Capacitance	μF/km	0.264	0.298	0.336	0.363	0.392	0.423	0.468	0.514	0.596	0.679	0.739	0.815	0.906
Zero Sequence Resistance	Ω/km	1.122	0.847	0.670	0.571	0.455	0.392	0.330	0.287	0.242	0.182	0.158	0.138	0.121
Zero Sequence Reactance	Ω/km	0.085	0.075	0.069	0.065	0.063	0.059	0.055	0.052	0.049	0.048	0.045	0.043	0.040
Current rating:														
In ground	Amps	160	196	233	263	293	329	377	420	473	521	573	624	668
In air in shade	Amps	187	233	282	323	366	417	486	552	636	720	807	897	981
In air in direct sunlight	Amps	149	185	224	257	290	330	383	435	499	563	630	698	761
Short circuit ratings:														
Symmetrical (250°C)	kA (1sec)	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9	33.3	42.8	55.2	70.6	89.0
Earth fault (180°C)	kA (1sec)	9.7	10.4	11.1	11.7	15.3	16.0	17.2	18.4	20.5	28.1	30.2	32.5	35.5

Ratings above are based on standard laying conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

Soil temperature = 25°C

Depth of burial = 800mm

Air temperature = 30°C

5% tolerance on dimensions

Ratings for solid bonded, Trefoil formation

Description:	6350/11000V, Aluminium, 1 Core, Type B	F2FA...
Sheathing:	FRPVC (red stripe)	...081
	LHPVC (blue stripe)	...082
Specification:	SANS 1339	

Size code	...n/a	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
PHYSICAL DIMENSIONS														
Conductor size	mm ² nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.50	10.00	12.00	13.50	15.00	16.50	19.00	21.50	24.00	27.50	31.50	35.00	39.00
Insulation diameter	mm app.	17.00	18.50	20.50	22.00	23.50	25.00	27.50	30.00	34.00	38.00	42.00	46.00	50.00
Cable diameter	mm app.	24.00	25.00	27.00	29.00	30.00	32.00	35.00	37.00	41.00	45.00	50.00	54.00	58.00
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	0.75	0.86	1.01	1.13	1.27	1.43	1.68	1.82	2.26	2.7	3.24	3.86	4.6
Gross mass (500 m)	kg app.	530	585	680	740	810	935	1065	1135	1475	1695	2095	2425	2795
Bending radius	mm min.	480	500	540	580	600	640	700	740	820	900	1000	1080	1160
DC Resistance @ 20°C	Ω/km	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.078	0.061	0.047	0.037	0.029
AC Resistance @ 90°C	Ω/km	0.822	0.568	0.411	0.325	0.265	0.211	0.162	0.130	0.102	0.081	0.064	0.052	0.044
Reactance	Ω/km	0.129	0.119	0.112	0.109	0.105	0.102	0.099	0.094	0.093	0.091	0.089	0.087	0.085
Impedance	Ω/km	0.832	0.580	0.426	0.343	0.285	0.235	0.189	0.161	0.138	0.121	0.110	0.101	0.095
Capacitance	μF/km	0.355	0.394	0.445	0.483	0.521	0.559	0.622	0.686	0.602	0.632	0.706	0.727	0.797
Current rating:														
In ground	Amps	156	194	233	264	296	334	385	435	496	563	633	705	772
In air in shade	Amps	173	223	273	315	359	410	484	559	652	760	873	992	1111
In air in direct sunlight	Amps	139	179	219	252	286	327	385	444	515	598	685	776	867
Short circuit ratings:														
Symmetrical (250°C)	kA (1sec)	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9	33.3	42.8	55.2	70.6	89.0
Earth fault (200°C)	kA (1sec)	2.0	2.2	2.4	2.6	2.7	2.9	3.2	3.4	3.8	4.3	4.7	5.1	5.5

Ratings above are based on standard laying conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

Soil temperature = 25°C

Depth of burial = 800mm

Air temperature = 30°C

5% tolerance on dimensions

Ratings for solid bonded, Trefoil formation

african cables

Description:	6350/11000V, Aluminium, 3 Core, Type A	F2FA...
Bedding/Sheathing:	FRPVC/ SWA/ FRPVC (red stripe)	...111
	LHPVC/ SWA/ FRPVC(blue stripe)	...212
Specification:	SANS 1339	

Size code	...n/a...	3016	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300	3400
PHYSICAL DIMENSIONS													
Conductor size	mm ² nom	16	25	35	50	70	95	120	150	185	240	300	400
Conductor diameter	mm app.	4.8	6.0	7.2	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4	24.3
Insulation diameter	mm app.	13.5	14.7	15.9	17.1	18.6	20.4	22.1	23.3	25.1	27.5	29.1	33.8
Bedding diameter	mm app.	36.6	39.4	42.0	44.8	48.0	52.1	56.0	58.6	62.6	68.0	71.7	82.1
Armour diameter	mm app.	40.6	44.4	47.0	49.8	53.0	57.1	61.0	64.9	68.9	74.3	78.0	88.4
Cable diameter	mm app.	45.3	49.3	52.1	55.1	58.5	62.8	67.1	71.2	75.5	81.3	85.4	96.1
TECHNICAL DATA													
Normal drum length	m	300	300	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	3.3	4.2	4.5	4.9	5.4	6.1	6.8	8.1	8.8	9.9	11.2	13.1
Gross mass (300 m)	kg app.	1225	1620	1695	1820	2095	2320	2555	2940	3440	3820	4190	4675
Bending radius	mm min.	543	591	625	661	702	754	805	855	906	976	1025	1154
DC Resistance @ 20°C	Ω/km	1.910	1.200	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.078
AC Resistance @ 90°C	Ω/km	2.449	1.539	1.113	0.822	0.568	0.411	0.325	0.265	0.211	0.162	0.130	0.102
Reactance	Ω/km	0.137	0.128	0.121	0.115	0.107	0.102	0.098	0.095	0.092	0.088	0.086	0.084
Impedance	Ω/km	2.453	1.544	1.120	0.830	0.578	0.423	0.339	0.282	0.230	0.184	0.156	0.132
Capacitance	μF/km	0.191	0.215	0.240	0.265	0.295	0.332	0.366	0.390	0.426	0.475	0.507	0.601
Zero Sequence Resistance	Ω/km	3.917	2.721	2.222	1.864	1.540	1.307	1.160	0.945	0.848	0.748	0.687	0.589
Zero Sequence Reactance	Ω/km	0.154	0.149	0.142	0.137	0.130	0.124	0.120	0.119	0.115	0.110	0.108	0.103
Current rating:													
In ground	Amps	82	105	125	147	179	214	242	270	304	350	391	444
In air in shade	Amps	88	114	137	163	202	243	279	314	358	417	469	545
In air in direct sunlight	Amps	77	100	121	143	177	213	244	274	312	363	408	472
Short circuit ratings:													
Symmetrical (250°C)	kA (1sec)	1.4	2.2	3.0	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9	33.3
Earth fault (200°C)	kA (1sec)	11.9	15.6	16.6	17.6	18.9	20.4	21.9	28.3	30.2	32.6	34.3	39.1

Ratings above are based on standard laying conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2

Km/W

Soil temperature = 25 °C

Depth of burial = 800 mm

Air temperature = 30 °C

Single circuit in isolation

5% tolerance on dimensions

Description:	6350/11000V, Aluminium, 3 Core, Type B	F2FA...
Sheathing:	FRPVC (red stripe) LHPVC (blue stripe)	...001 ...002
Specification:	SANS 1339	

Size code	...n/a...	3016	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300	3400
PHYSICAL DIMENSIONS													
Conductor size	mm ² nom	16	25	35	50	70	95	120	150	185	240	300	400
Conductor diameter	mm app.	4.8	6.0	7.2	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4	20.4
Insulation diameter	mm app.	13.5	14.7	15.9	17.1	18.6	20.4	22.1	23.3	25.1	27.5	29.1	29.1
Bedding diameter	mm app.	34.5	37.1	39.7	42.3	45.6	49.0	52.7	55.3	59.2	64.3	67.8	67.8
Cable diameter	mm app.	39.1	41.6	44.4	47.2	50.7	54.5	58.4	61.2	65.3	70.7	74.6	74.6
TECHNICAL DATA													
Normal drum length	m	300	300	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	1.85	1.752	1.940	2.192	2.602	2.814	3.197	3.573	4.115	4.892	5.714	7.151
Gross mass (300 m)	kg app.	660	705	765	840	990	1180	1220	1405	1570	1870	2345	2840
Bending radius	mm min.	586	625	667	709	760	818	876	918	980	1061	1119	1119
DC Resistance @ 20°C	Ω/km	1.910	1.200	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.078
AC Resistance @ 90°C	Ω/km	2.449	1.539	1.113	0.822	0.568	0.411	0.325	0.265	0.211	0.162	0.130	0.102
Reactance	Ω/km	0.138	0.129	0.121	0.116	0.107	0.102	0.098	0.095	0.092	0.088	0.086	0.086
Impedance	Ω/km	2.453	1.544	1.120	0.830	0.578	0.423	0.339	0.282	0.230	0.184	0.156	0.134
Capacitance	μF/km	0.191	0.215	0.240	0.265	0.295	0.332	0.366	0.390	0.426	0.475	0.507	0.507
Current rating:													
In ground	Amps	84	109	130	153	187	221	251	281	318	368	414	467
In air in shade	Amps	89	118	142	170	211	252	291	328	377	445	504	569
In air in direct sunlight	Amps	79	104	126	150	186	221	256	288	330	389	440	497
Short circuit ratings:													
Symmetrical (250°C)	kA (1sec)	1.4	2.2	3.0	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9	33.3
Earth fault (200°C)	kA (1sec)	3.9	4.2	4.5	4.8	5.2	2.8	3.0	3.2	3.4	3.7	3.9	3.9

Ratings above are based on standard laying conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2 Km/W

Soil temperature = 25 °C

Depth of burial = 800 mm

Air temperature = 30 °C

5% tolerance on dimensions

african cables

Description:	12700/22000V, Aluminium, 1 Core, Type	F2HA...
Bedding/ Sheathing:	A FRPVC/AWA/FRPVC (red stripe)	...141
	LHPVC/AWA/LHPVC (blue stripe)	...242
Specification:	SANS 1339	

Size code	...n/a...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
PHYSICAL DIMENSIONS														
Conductor size	mmI nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.35	10.05	11.90	13.25	14.70	16.23	18.46	20.75	24.05	27.42	30.45	34.25	38.81
Insulation diameter	mm app.	21.33	23.03	24.88	26.23	27.68	29.21	31.44	33.73	37.83	41.98	45.01	48.81	53.37
Bedding diameter	mm app.	26.18	27.88	29.73	31.08	32.53	34.06	36.29	38.78	42.88	47.24	50.27	54.27	59.04
Armour diameter	mm app.	29.38	31.88	33.73	35.08	36.53	38.06	40.29	43.78	47.88	52.24	55.27	59.27	64.04
Cable diameter	mm app.	34.26	36.76	38.81	40.16	41.82	43.35	45.78	49.48	53.79	58.35	61.79	66.00	70.97
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	1.37	1.60	1.80	1.94	2.12	2.31	2.6	3.11	3.72	4.22	4.93	5.72	6.65
Gross mass (500 m)	kg app.	920	1165	1265	1335	1420	1625	1805	2075	2385	2915	3285	3760	4275
Bending radius	mm min.	685	735	776	803	836	867	916	990	1076	1167	1236	1320	1419
DC Resistance @ 20°C	Ω/km	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.078	0.061	0.047	0.037	0.029
AC Resistance @ 90°C	Ω/km	0.822	0.568	0.411	0.325	0.265	0.211	0.161	0.130	0.102	0.080	0.064	0.052	0.043
Reactance	Ω/km	0.152	0.142	0.135	0.131	0.127	0.122	0.117	0.115	0.110	0.107	0.104	0.101	0.098
Impedance	Ω/km	0.836	0.586	0.432	0.350	0.293	0.244	0.200	0.173	0.150	0.134	0.122	0.113	0.107
Capacitance	µF/km	0.185	0.206	0.230	0.247	0.265	0.285	0.313	0.341	0.361	0.444	0.481	0.529	0.585
Zero Sequence Resistance	Ω/km	1.074	0.761	0.592	0.498	0.431	0.370	0.310	0.243	0.204	0.173	0.150	0.131	0.115
Zero Sequence Reactance	Ω/km	0.096	0.086	0.079	0.075	0.071	0.067	0.062	0.060	0.056	0.054	0.051	0.048	0.045
Current rating:														
In ground	Amps	160	196	232	263	292	328	376	416	467	521	574	625	671
In air in shade	Amps	189	236	286	327	368	419	488	552	634	722	809	899	987
In air in direct sunlight	Amps	150	187	226	258	290	330	383	432	495	562	629	697	763
Short circuit ratings:														
Symmetrical (250°C)	kA (1sec)	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9	33.3	42.8	55.2	70.6	89.0
Earth fault (200°C)	kA (1sec)	11.5	15.1	16.0	16.7	17.5	18.3	19.4	25.7	28.2	31.0	32.9	35.4	38.4

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal resistance

= 1.2Km/W

Soil temperature = 25°C

Depth of burial = 800mm

Air temperature = 30°C

5% tolerance on dimensions

Ratings for solid bonded, Trefoil formation

Description:	12700/22000V, Aluminium, 3 Core, Type	F2HA...
Sheathing:	B FRPVC (red stripe)	...001
	LHPVC (blue stripe)	...002
Specification:	SANS 1339	

Size code	...n/a...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DIMENSIONS											
Conductor size	mmI nom	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	6.0	7.2	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4
Insulation diameter	mm app.	19.0	20.2	21.4	22.9	24.7	26.4	27.6	29.4	31.8	33.4
Bedding diameter	mm app.	46.0	48.6	51.2	54.4	58.3	62.0	64.6	68.5	73.6	77.1
Cable diameter	mm app.	51.5	54.3	57.1	60.6	64.7	68.5	71.5	75.6	81.2	84.9
TECHNICAL DATA											
Normal drum length	m	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	2.73	2.92	3.19	3.59	3.7	4.150	4.67	5.22	6.067	6.610
Gross mass (300 m)	kg app.	1025	1125	1205	1295	1445	1645	1750	2195	2515	2680
Bending radius	mm min.	773	815	857	909	970	1028	1073	1135	1218	1273
DC Resistance @ 20°C	Ω/km	1.200	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100
AC Resistance @ 90°C	Ω/km	1.539	1.113	0.822	0.568	0.411	0.325	0.265	0.211	0.161	0.130
Reactance	Ω/km	0.142	0.134	0.128	0.119	0.113	0.108	0.105	0.101	0.097	0.095
Impedance	Ω/km	1.545	1.121	0.832	0.580	0.426	0.342	0.285	0.234	0.188	0.161
Capacitance	μF/km	0.154	0.170	0.185	0.205	0.227	0.249	0.264	0.287	0.317	0.337
Current rating:											
In ground	Amps	108	128	151	185	221	251	280	317	367	413
In air in shade	Amps	119	143	171	211	256	295	332	380	446	506
In air in direct sunlight	Amps	104	125	149	185	224	258	289	331	388	440
Short circuit ratings:											
Symmetrical (250°C)	kA (1sec)	2.2	3.0	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9
Earth fault (200°C)	kA (1sec)	2.7	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.3	4.5

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal

resistance = 1.2 Km/W

Soil temperature = 25 °C

Depth of burial = 800 mm

Air temperature = 30 °C

5% tolerance on dimensions

african cables

Description:	12700/22000V, Aluminium, 3 Core, Type	F2HA...
Bedding/ Sheathing:	A FRPVC/ SWA/ FRPVC (red stripe)	...111
Specification:	LHPVC/ SWA/ LHPVC (blue stripe)	...212
	SANS 1339	

Size code	...n/a...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DIMENSIONS											
Conductor size	mmI nom	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	6.0	7.2	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4
Insulation diameter	mm app.	19.0	20.2	21.4	22.9	24.7	26.4	27.6	29.4	31.8	33.4
Bedding diameter	mm app.	49.1	51.7	54.3	57.7	61.8	65.5	68.3	72.4	77.7	81.2
Armour diameter	mm app.	54.1	56.7	59.3	64.0	68.1	71.8	74.6	78.7	84.0	87.5
Cable diameter	mm app.	59.6	62.4	65.2	70.2	74.7	78.5	81.5	86.0	91.6	95.5
TECHNICAL DATA											
Normal drum length	m	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	5.4	5.68	6.09	7.57	8.36	9.11	9.64	10.46	11.69	12.84
Gross mass (300 m)	kg app.	1875	2454	2657	3121	3647	3873	4032	3988	4658	5001
Bending radius	mm min.	715	749	782	842	896	942	978	1032	1100	1146
DC Resistance @ 20°C	Ω/km	1.200	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100
AC Resistance @ 90°C	Ω/km	1.539	1.113	0.822	0.568	0.411	0.325	0.265	0.211	0.161	0.130
Reactance	Ω/km	0.142	0.134	0.128	0.119	0.113	0.108	0.105	0.101	0.097	0.095
Impedance	Ω/km	1.545	1.121	0.832	0.580	0.426	0.342	0.285	0.234	0.188	0.161
Capacitance	μF/km	0.154	0.170	0.185	0.205	0.227	0.249	0.264	0.287	0.317	0.337
Zero Sequence Resistance	Ω/km	2.490	2.017	1.682	1.258	1.056	0.934	0.850	0.764	0.676	0.623
Zero Sequence Reactance	Ω/km	0.155	0.148	0.143	0.139	0.134	0.129	0.126	0.122	0.117	0.114
Current rating:											
In ground	Amps	105	125	147	179	213	242	269	303	348	389
In air in shade	Amps	116	139	166	204	246	282	316	358	418	470
In air in direct sunlight	Amps	101	122	144	178	214	245	274	311	362	407
Short circuit ratings:											
Symmetrical (250°C)	kA (1sec)	2.2	3.0	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9
Earth fault (200°C)	kA (1sec)	19.3	20.3	21.3	27.9	29.8	31.5	32.8	34.6	37.1	38.7

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal

resistance = 1.2 Km/W

Soil temperature = 25 °C

Depth of burial = 800 mm

Air temperature = 30 °C

Single circuit in isolation

5% tolerance on dimensions

Description:	12700/22000V, Aluminium, 3 Core, Type	F2HA...
Sheathing:	B FRPVC (red stripe)	...001
	LHPVC (blue stripe)	...002
Specification:	SANS 1339	

Size code	...n/a...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DIMENSIONS											
Conductor size	mmI nom	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	6.0	7.2	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4
Insulation diameter	mm app.	19.0	20.2	21.4	22.9	24.7	26.4	27.6	29.4	31.8	33.4
Bedding diameter	mm app.	46.0	48.6	51.2	54.4	58.3	62.0	64.6	68.5	73.6	77.1
Cable diameter	mm app.	51.5	54.3	57.1	60.6	64.7	68.5	71.5	75.6	81.2	84.9
TECHNICAL DATA											
Normal drum length	m	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	2.73	2.92	3.19	3.59	3.7	4.150	4.67	5.22	6.067	6.610
Gross mass (300 m)	kg app.	1025	1125	1205	1295	1445	1645	1750	2195	2515	2680
Bending radius	mm min.	773	815	857	909	970	1028	1073	1135	1218	1273
DC Resistance @ 20°C	Ω/km	1.200	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100
AC Resistance @ 90°C	Ω/km	1.539	1.113	0.822	0.568	0.411	0.325	0.265	0.211	0.161	0.130
Reactance	Ω/km	0.142	0.134	0.128	0.119	0.113	0.108	0.105	0.101	0.097	0.095
Impedance	Ω/km	1.545	1.121	0.832	0.580	0.426	0.342	0.285	0.234	0.188	0.161
Capacitance	μF/km	0.154	0.170	0.185	0.205	0.227	0.249	0.264	0.287	0.317	0.337
Current rating:											
In ground	Amps	108	128	151	185	221	251	280	317	367	413
In air in shade	Amps	119	143	171	211	256	295	332	380	446	506
In air in direct sunlight	Amps	104	125	149	185	224	258	289	331	388	440
Short circuit ratings:											
Symmetrical (250°C)	kA (1sec)	2.2	3.0	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9
Earth fault (200°C)	kA (1sec)	2.7	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.3	4.5

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal

resistance = 1.2 Km/W

Soil temperature = 25 °C

Depth of burial = 800 mm

Air temperature = 30 °C

5% tolerance on dimensions

african cables

Description: 12700/22000V, Aluminium, 1 Core, Type F2HA...
 Sheathing: B FRPVC (red stripe) ...081
 LHPVC (blue stripe) ...082
 Specification: SANS 1339

Size code	...n/a...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
PHYSICAL DIMENSIONS														
Conductor size	mm i nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.50	10.00	12.00	13.50	15.00	16.50	19.00	21.50	24.00	27.50	31.50	35.00	39.00
Insulation diameter	mm app.	21.00	23.00	24.50	26.00	27.50	29.50	32.00	34.00	38.50	42.00	46.00	50.50	54.50
Cable diameter	mm app.	28.00	30.00	32.00	33.00	35.00	37.00	39.00	41.00	46.00	50.00	54.00	59.00	63.00
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	0.99	1.12	1.27	1.42	1.55	1.61	1.88	2.14	2.6	3.06	3.64	4.32	5.08
Gross mass (500 m)	kg app.	725	790	870	940	1010	1165	1300	1430	1805	2055	2345	2960	3365
Bending radius	mm min.	560	600	640	660	700	740	780	820	920	1000	1080	1180	1260
DC Resistance @ 20°C	Ω/km	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.078	0.061	0.047	0.037	0.029
AC Resistance @ 90°C	Ω/km	0.822	0.568	0.411	0.325	0.265	0.211	0.161	0.130	0.102	0.080	0.064	0.052	0.043
Reactance	Ω/km	0.139	0.130	0.123	0.117	0.114	0.111	0.105	0.101	0.101	0.097	0.094	0.093	0.090
Impedance	Ω/km	0.834	0.583	0.429	0.345	0.288	0.238	0.193	0.164	0.143	0.126	0.113	0.106	0.100
Capacitance	µF/km	0.231	0.243	0.283	0.305	0.328	0.336	0.371	0.424	0.391	0.434	0.483	0.488	0.533
Current rating:														
In ground	Amps	159	194	232	264	295	333	387	436	495	562	635	706	774
In air in shade	Amps	183	228	277	320	362	415	492	565	655	758	878	994	1113
In air in direct sunlight	Amps	146	182	221	255	288	329	389	446	515	594	686	774	865
Short circuit ratings:														
Symmetrical (250°C)	kA (1sec)	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9	33.3	42.8	55.2	70.6	89.0
Earth fault (200°C)	kA (1sec)	2.5	2.7	2.8	3.0	3.2	3.4	3.6	3.8	4.3	4.7	5.1	5.6	6.0

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal resistance

= 1.2Km/W

Soil temperature = 25°C

Depth of burial = 800mm

Air temperature = 30°C

5% tolerance on dimensions

Ratings for solid bonded, Trefoil formation

Description:	19000/33000V, Aluminium, 1 Core, Type	F2JA...
Bedding/ Sheathing:	A FRPVC/AWA/FRPVC (red stripe)	...141
	LHPVC/AWA/LHPVC (blue stripe)	...242
Specification:	SANS 1339	

Size code	...n/a...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
PHYSICAL DIMENSIONS														
Conductor size	mmI nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.35	10.05	11.90	13.25	14.70	16.23	18.46	20.75	24.05	26.43	30.45	34.25	38.81
Insulation diameter	mm app.	26.45	28.15	30.00	31.35	32.80	34.33	36.56	38.85	42.95	46.11	50.13	53.93	58.49
Bedding diameter	mm app.	31.30	33.00	34.85	36.20	37.86	39.39	41.62	44.11	48.21	51.58	55.60	59.60	64.37
Armour diameter	mm app.	36.30	37.00	38.85	40.20	42.86	44.39	46.62	49.11	53.21	56.58	60.60	65.90	70.67
Cable diameter	mm app.	40.59	42.29	44.35	45.70	48.56	50.29	52.52	55.22	59.53	63.10	67.32	73.04	78.01
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	1.88	2.03	2.25	2.40	2.78	3.01	3.30	3.68	4.34	4.87	5.58	6.76	7.78
Gross mass (500 m)	kg app.	1305	1490	1595	1700	1910	2025	2175	2640	2990	3255	3740	4330	5490
Bending radius	mm min.	812	846	887	914	971	1006	1050	1104	1191	1262	1346	1461	1560
DC Resistance @ 20°C	Ω/km	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.078	0.061	0.047	0.037	0.029
AC Resistance @ 90°C	Ω/km	0.822	0.568	0.411	0.325	0.265	0.211	0.161	0.130	0.102	0.080	0.063	0.051	0.043
Reactance	Ω/km	0.163	0.151	0.144	0.139	0.136	0.131	0.126	0.122	0.117	0.114	0.110	0.107	0.104
Impedance	Ω/km	0.838	0.588	0.435	0.353	0.298	0.248	0.205	0.178	0.155	0.140	0.127	0.119	0.112
Capacitance	µF/km	0.144	0.159	0.176	0.188	0.200	0.214	0.233	0.253	0.289	0.316	0.351	0.383	0.422
Zero Sequence Resistance	Ω/km	0.937	0.732	0.566	0.475	0.381	0.323	0.267	0.229	0.193	0.165	0.142	0.109	0.095
Zero Sequence Reactance	Ω/km	0.107	0.096	0.088	0.084	0.081	0.076	0.071	0.067	0.063	0.061	0.057	0.054	0.051
Current rating:														
In ground	Amps	160	195	232	262	291	326	373	415	467	518	574	619	666
In air in shade	Amps	192	238	287	328	370	420	488	552	634	716	812	896	986
In air in direct sunlight	Amps	151	187	225	257	289	328	381	430	493	555	628	691	759
Short circuit ratings:														
Symmetrical (250°C)	kA (1sec)	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9	33.3	42.8	55.2	70.6	89.0
Earth fault (200°C)	kA (1sec)	16.8	17.7	18.7	19.4	25.1	26.0	27.4	29.0	31.6	33.7	36.2	31.6	34.1

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal resistance

= 1.2Km/W

Soil temperature = 25°C

Depth of burial = 800mm

Air temperature = 30°C

5% tolerance on dimensions

Ratings for solid bonded, Trefoil formation

Description: 19000/33000V, Aluminium, 1 Core, Type F2JA...
Sheathing: B FRPVC (red stripe) ...081
 LHPVC (blue stripe) ...082
Specification: SANS 1339

Size code	...n/a...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
PHYSICAL DIMENSIONS														
Conductor size	mmi nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.50	10.00	12.00	13.50	14.38	16.50	19.00	21.50	24.00	26.43	31.50	35.00	39.00
Insulation diameter	mm app.	26.50	28.00	30.00	31.00	32.45	34.50	37.00	39.50	43.50	46.11	51.00	55.50	59.50
Cable diameter	mm app.	33.00	35.00	37.00	38.00	40.28	42.00	44.00	47.00	51.00	54.13	60.00	64.00	69.00
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	1.2	1.33	1.51	1.64	1.81	1.97	2.27	2.57	3.07	3.57	4.18	4.86	5.69
Gross mass (500 m)	kg app.	835	1025	1115	1185	1265	1460	1605	1805	2060	2590	2910	3250	3800
Bending radius	mm min.	660	700	740	760	806	840	880	940	1020	1083	1200	1280	1380
DC Resistance @ 20°C	Ω/km	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.078	0.061	0.047	0.037	0.029
AC Resistance @ 90°C	Ω/km	0.822	0.568	0.411	0.325	0.265	0.211	0.161	0.130	0.102	0.080	0.063	0.051	0.043
Reactance	Ω/km	0.149	0.140	0.132	0.126	0.126	0.119	0.113	0.109	0.107	0.105	0.100	0.098	0.096
Impedance	Ω/km	0.835	0.585	0.431	0.348	0.293	0.242	0.197	0.170	0.148	0.132	0.119	0.110	0.105
Capacitance	µF/km	0.166	0.181	0.200	0.220	0.198	0.243	0.267	0.291	0.291	0.316	0.355	0.367	0.399
Current rating:														
In ground	Amps	160	195	233	265	293	334	387	435	496	560	633	708	773
In air in shade	Amps	188	232	283	325	364	420	497	568	659	754	875	998	1108
In air in direct sunlight	Amps	149	184	223	257	287	331	391	446	515	588	680	774	857
Short circuit ratings:														
Symmetrical (250°C)	kA (1sec)	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9	33.3	42.8	55.2	70.6	89.0
Earth fault (200°C)	kA (1sec)	3.0	3.2	3.4	3.5	3.7	3.9	4.2	4.4	4.9	5.1	5.7	6.1	6.6

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal resistance

= 1.2Km/W

Soil temperature = 25°C

Depth of burial = 800mm

Air temperature = 30°C

5% tolerance on dimensions

Ratings for solid bonded, Trefoil formation

Description:	19000/33000V, Aluminium, 3 Core, Type	F2JA...
Bedding/ Sheathing:	A FRPVC/ SWA/ FRPVC (red stripe)	...111
Specification:	LHPVC/ SWA/ LHPVC (blue stripe)	...212
	SANS 1339	

Size code	...n/a...	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DIMENSIONS									
Conductor size	mmI nom	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4
Insulation diameter	mm app.	26.5	28.0	29.8	31.5	32.7	34.5	36.9	38.5
Bedding diameter	mm app.	65.9	69.2	73.3	77.2	79.7	83.8	89.2	92.9
Armour diameter	mm app.	72.2	75.5	79.6	84.3	86.0	90.1	95.5	100.0
Cable diameter	mm app.	79.2	82.7	87.0	91.8	93.8	98.1	103.9	108.8
TECHNICAL DATA									
Normal drum length	m	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	8.8	9.5	11.0	11.9	12.4	13.3	14.7	16.0
Gross mass (300 m)	kg app.	3460	3700	4440	4715	4870	5130	6000	6400
Bending radius	mm min.	951	992	1043	1102	1126	1178	1247	1306
DC Resistance @ 20°C	Ω/km	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100
AC Resistance @ 90°C	Ω/km	0.822	0.568	0.411	0.325	0.265	0.211	0.161	0.130
Reactance	Ω/km	0.140	0.131	0.124	0.118	0.115	0.110	0.106	0.103
Impedance	Ω/km	0.834	0.583	0.429	0.346	0.289	0.238	0.193	0.166
Capacitance	μF/km	0.144	0.158	0.174	0.189	0.199	0.215	0.236	0.250
Zero Sequence Resistance	Ω/km	1.428	1.146	1.001	0.801	0.807	0.728	0.647	0.526
Zero Sequence Reactance	Ω/km	0.151	0.145	0.141	0.136	0.133	0.129	0.125	0.122
Current rating:									
In ground	Amps	146	178	212	241	268	302	347	386
In air in shade	Amps	166	205	247	283	316	359	418	469
In air in direct sunlight	Amps	144	177	213	244	274	310	360	404
Short circuit ratings:									
Symmetrical (250°C)	kA (1sec)	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9
Earth fault (200°C)	kA (1sec)	31.7	33.2	39.2	41.2	42.5	44.6	47.4	49.3

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal

resistance = 1.2 Km/W

Soil temperature = 25 °C

Depth of burial = 800 mm

Air temperature = 30 °C

Single circuit in isolation

5% tolerance on dimensions

Description:	19000/33000V, Aluminium, 3 Core, Type	F2JA...
Sheathing:	B FRPVC (red stripe)	...001
	LHPVC (blue stripe)	...002
Specification:	SANS 1339	

Size code	...n/a...	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DIMENSIONS									
Conductor size	mmI nom	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4
Insulation diameter	mm app.	26.5	28.0	29.8	31.5	32.7	34.5	36.9	38.5
Bedding diameter	mm app.	62.3	65.5	69.4	73.1	75.6	79.5	84.7	88.2
Cable diameter	mm app.	69.0	72.5	76.6	80.6	83.4	87.5	93.1	96.8
TECHNICAL DATA									
Normal drum length	m	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	4.18	4.63	5.13	5.70	6.08	6.64	7.57	8.41
Gross mass (300 m)	kg app.	1550	1935	2100	2330	2480	2650	3020	3645
Bending radius	mm min.	1035	1087	1148	1210	1252	1313	1397	1452
DC Resistance @ 20°C	Ω/km	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100
AC Resistance @ 90°C	Ω/km	0.822	0.568	0.411	0.325	0.265	0.211	0.161	0.130
Reactance	Ω/km	0.140	0.131	0.124	0.118	0.115	0.110	0.106	0.103
Impedance	Ω/km	0.834	0.583	0.429	0.346	0.289	0.238	0.193	0.166
Capacitance	μF/km	0.144	0.158	0.174	0.189	0.199	0.215	0.236	0.250
Current rating:									
In ground	Amps	151	184	220	251	280	316	366	412
In air in shade	Amps	173	213	258	297	334	382	448	507
In air in direct sunlight	Amps	150	186	225	258	290	331	388	439
Short circuit ratings:									
Symmetrical (250°C)	kA (1sec)	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9
Earth fault (200°C)	kA (1sec)	3.6	3.8	4.0	4.3	4.4	4.6	4.9	5.1

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal

resistance = 1.2 Km/W

Soil temperature = 25 °C

Depth of burial = 800 mm

Air temperature = 30 °C

5% tolerance on dimensions

african cables

Description:	3800/6600V, Copper, 1 Core, Type B	F2EC...
Sheathing:	FRPVC (red stripe)	...081
	LHPVC (blue stripe)	...082
Specification:	SANS 1339	

Size code	...n/a...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
PHYSICAL DIMENSIONS														
Conductor size	mm ² nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.50	10.00	12.00	13.50	15.00	16.50	19.00	21.50	24.00	27.50	31.50	35.00	39.00
Insulation diameter	mm app.	15.00	17.00	18.50	20.00	21.50	23.00	26.00	28.50	33.50	37.50	41.50	45.50	50.00
Cable diameter	mm app.	21.00	23.00	25.00	27.00	28.00	30.00	33.00	36.00	41.00	45.00	49.00	54.00	58.00
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	0.941	1.192	1.41	1.739	1.931	2.308	2.949	3.524	4.647	5.646	7.031	8.751	10.87
Gross mass (500 m)	kg app.	575	700	856	1016	1112	1300	1692	1979	2593	3225	3848	4376	5926
Bending radius	mm min.	420	460	500	540	560	600	660	720	820	900	980	1080	1160
DC Resistance @ 20°C	Ω/km	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060	0.047	0.037	0.028	0.022	0.018
AC Resistance @ 90°C	Ω/km	0.494	0.342	0.247	0.196	0.160	0.128	0.099	0.080	0.064	0.052	0.042	0.036	0.031
Reactance	Ω/km	0.121	0.116	0.110	0.105	0.099	0.098	0.095	0.093	0.093	0.091	0.087	0.087	0.085
Impedance	Ω/km	0.508	0.361	0.270	0.222	0.188	0.161	0.137	0.122	0.113	0.104	0.097	0.094	0.090
Capacitance	μF/km	0.523	0.518	0.662	0.722	0.782	0.841	0.831	0.918	0.644	0.672	0.752	0.771	0.797
Current rating:														
In ground	Amps	206	251	299	338	380	426	491	550	619	693	769	833	897
In air in shade	Amps	227	284	347	400	456	520	615	703	813	934	1063	1172	1293
In air in direct sunlight	Amps	184	229	279	321	365	415	490	558	642	735	835	917	1009
Short circuit ratings:														
Symmetrical (250°C)	kA (1sec)	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2	52.7	67.6	87.5	112.0	140.6
Earth fault (200°C)	kA (1sec)	1.8	2.0	2.2	2.4	2.5	2.7	3.0	3.3	3.8	4.2	4.6	5.1	5.5

Ratings above are based on standard laying conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

Soil temperature = 25°C

Depth of burial = 800mm

Air temperature = 30°C

5% tolerance on dimensions

Ratings for solid bonded, Trefoil formation

african cables

Description:	3800/6600V, Copper, 3 Core, Type	F2EC...
Bedding/ Armouring/ Sheathing:	A FRPVC/SWA/FRPVC (red stripe)	...111
Specification:	LHPVC/SWA/LHPVC (blue stripe)	...212
	SANS 1339	

Size code	...n/a...	3016	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DIMENSIONS												
Conductor size	mmi nom	16	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	4.8	6.0	7.2	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4
Insulation diameter	mm app.	11.6	12.8	14.0	15.2	16.7	18.5	20.2	21.4	23.2	25.8	27.8
Bedding diameter	mm app.	32.6	35.2	37.8	40.6	43.8	47.9	51.8	54.4	58.5	64.3	68.8
Armour diameter	mm app.	36.6	39.2	41.8	45.6	48.8	52.9	56.8	59.4	64.8	70.6	75.1
Cable diameter	mm app.	41.1	43.7	46.5	50.7	54.1	58.4	62.5	65.3	70.9	77.2	82.3
TECHNICAL DATA												
Normal drum length	m	300	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	3.041	3.536	4.007	5.103	6.049	7.272	8.229	9.319	11.54	13.86	16.37
Gross mass (300 m)	kg app.	1016	1236	1377	1706	2021	2428	2805	3132	3809	4787	5605
Bending radius	mm min.	493	524	558	608	650	701	750	784	851	926	988
DC Resistance @ 20°C	Ω/km	1.150	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060
AC Resistance @ 90°C	Ω/km	1.466	0.927	0.668	0.494	0.342	0.247	0.196	0.160	0.128	0.099	0.080
Reactance	Ω/km	0.129	0.118	0.110	0.105	0.100	0.095	0.091	0.089	0.087	0.084	0.084
Impedance	Ω/km	1.472	0.935	0.677	0.505	0.356	0.265	0.216	0.183	0.155	0.130	0.116
Capacitance	µF/km	0.239	0.272	0.305	0.338	0.380	0.429	0.475	0.508	0.557	0.601	0.602
Zero Sequence Resistance	Ω/km	3.117	2.455	2.090	1.641	1.404	1.220	1.097	1.017	0.808	0.718	0.659
Zero Sequence Reactance	Ω/km	0.152	0.143	0.136	0.133	0.126	0.120	0.116	0.113	0.111	0.107	0.105
Current rating:												
In ground	Amps	107	135	161	190	231	275	311	347	388	444	492
In air in shade	Amps	113	145	175	209	258	311	357	401	456	530	593
In air in direct sunlight	Amps	100	128	154	184	226	273	312	351	398	462	516
Short circuit ratings:												
Symmetrical (250°C)	kA (1sec)	2.2	3.4	4.7	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2
Earth fault (200°C)	kA (1sec)	9.9	11.5	12.3	16.1	17.3	18.8	20.3	21.3	28.2	30.9	33.0

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal

resistance = 1.2 Km/W

Soil temperature = 25 °C

Depth of burial = 800 mm

Air temperature = 30 °C

Single circuit in isolation

5% tolerance on dimensions

Description:	3800/6600V, Copper, 3 Core, Type	F2EC...
Sheathing:	B FRPVC (red stripe)	...001
	LHPVC (blue stripe)	...002
Specification:	SANS 1339	

Size code	...n/a...	3016	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DIMENSIONS												
Conductor size	mm ⁱ nom	16	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	4.8	6.0	7.2	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4
Insulation diameter	mm app.	11.6	12.8	14.0	15.2	16.7	18.5	20.2	21.4	23.2	25.8	27.8
Bedding diameter	mm app.	30.6	33.1	35.7	38.3	41.6	45.0	48.7	51.3	55.2	60.8	65.1
Cable diameter	mm app.	34.7	37.5	40.2	43.0	46.5	50.2	54.0	56.8	60.9	67.0	71.7
TECHNICAL DATA												
Normal drum length	m	300	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	1.054	1.860	2.220	2.675	3.400	4.039	4.850	5.901	6.918	8.727	10.74
Gross mass (300 m)	kg app.	555.2	662	770	977.5	1202	1418	1661	2027	2407	2965	3850
Bending radius	mm min.	520	562	604	646	697	752	810	852	914	1004	1076
Electrical Properties												
DC Resistance @ 20°C	Ω/km	1.150	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060
AC Resistance @ 90°C	Ω/km	1.466	0.927	0.668	0.494	0.342	0.247	0.196	0.160	0.128	0.099	0.080
Reactance	Ω/km	0.130	0.118	0.111	0.106	0.100	0.095	0.091	0.089	0.087	0.084	0.084
Impedance	Ω/km	1.472	0.935	0.678	0.505	0.357	0.265	0.216	0.183	0.155	0.130	0.116
Capacitance	μF/km	0.239	0.272	0.305	0.338	0.380	0.429	0.475	0.508	0.557	0.601	0.602
Current ratings:												
In ground	Amps	109	140	167	197	240	285	323	362	408	471	528
In air in shade	Amps	115	149	181	217	269	322	372	420	481	567	642
In air in direct sunlight	Amps	102	132	160	191	237	284	327	369	422	496	561
Short circuit ratings:												
Symmetrical (250°C)	kA (1sec)	2.2	3.4	4.7	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2
Earth fault (200°C)	kA (1sec)	3.5	3.8	4.1	4.4	4.8	2.6	2.8	3.0	3.2	3.5	3.8

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal

resistance = 1.2 Km/W

Soil temperature = 25 °C

Depth of burial = 800 mm

Air temperature = 30 °C

5% tolerance on dimensions

african cables

Description:	3800/6600V, Copper, 1 Core, Type	F2EC...
Bedding/Armouring/Sheathing:	A FRPVC/ AWA/ FRPVC (red stripe) LHPVC/ AWA / LHPVC	...141
Specification:	(blue stripe) SANS 1339	...242

Size code	...n/a...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
PHYSICAL DIMENSIONS														
Conductor size	mmI nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.50	10.00	12.00	13.50	15.00	16.50	19.00	21.50	24.00	27.50	31.50	35.00	39.00
Insulation diameter	mm app.	15.00	17.00	18.50	20.00	21.50	23.00	26.00	28.50	33.50	37.50	41.50	45.50	50.00
Bedding diameter	mm app.	20.00	21.50	23.50	24.50	26.00	28.00	30.50	33.50	38.00	42.50	46.50	51.00	55.00
Armour diameter	mm app.	23.00	24.50	26.50	28.00	29.50	32.00	34.50	37.50	42.00	47.50	51.50	56.00	60.00
Cable diameter	mm app.	27.00	29.00	31.00	32.00	34.00	37.00	40.00	42.00	47.00	53.00	58.00	62.00	67.00
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	1.263	1.496	1.824	2.098	2.449	2.941	3.537	4.317	5.433	6.729	8.148	10.31	12.21
Gross mass (500 m)	kg app.	736	852	1016	1174	1407	1596	1975	2495	3049	3765	4702	5627	6926
Bending radius	mm min.	540	580	620	640	680	740	800	840	940	1060	1160	1240	1340
DC Resistance @ 20°C	Ω/km	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060	0.047	0.037	0.028	0.022	0.018
AC Resistance @ 90°C	Ω/km	0.494	0.342	0.247	0.196	0.160	0.128	0.099	0.080	0.064	0.052	0.042	0.036	0.031
Reactance	Ω/km	0.136	0.131	0.123	0.115	0.112	0.111	0.107	0.102	0.102	0.101	0.098	0.096	0.094
Impedance	Ω/km	0.512	0.366	0.276	0.228	0.195	0.170	0.145	0.130	0.120	0.113	0.107	0.102	0.099
Capacitance	µF/km	0.523	0.518	0.662	0.722	0.782	0.841	0.831	0.918	0.644	0.672	0.752	0.771	0.797
Zero Sequence Resistance	Ω/km	0.813	0.637	0.519	0.401	0.352	0.300	0.255	0.223	0.189	0.143	0.125	0.111	0.100
Zero Sequence Reactance	Ω/km	0.079	0.073	0.067	0.059	0.055	0.054	0.050	0.048	0.048	0.047	0.044	0.043	0.041
Current rating:														
In ground	Amps	207	250	298	336	372	412	467	519	572	613	659	704	737
In air in shade	Amps	239	295	358	412	463	522	604	686	775	854	936	1022	1089
In air in direct sunlight	Amps	191	236	286	328	368	413	478	542	609	668	730	795	845
Short circuit ratings:														
Symmetrical (250°C)	kA (1sec)	6.40	9.24	12.82	16.18	19.96	24.98	32.83	41.18	52.66	67.62	87.46	112.0	140.6
Earth fault (200°C)	kA (1sec)	9.8	10.5	11.4	12.0	12.7	16.5	18.0	19.6	22.2	30.1	32.8	35.9	38.6

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal resistance = 1.2Km/W

Soil temperature = 25°C

Depth of burial = 800mm

Air temperature = 30°C

5% tolerance on dimensions

Ratings for solid bonded, Trefoil formation

Description:	6350/11000V, Copper, 1 Core, Type A	F2FC...
Bedding/Armouring/Sheathing:	FRPVC/AWA/ FRPVC (red stripe)	...141
	LHPVC/AWA/ LHPVC (blue stripe)	...242
Specification:	SANS 1339	

Size code	...n/a...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
PHYSICAL DIMENSIONS														
Conductor size	mm ² nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.35	10.05	11.90	13.25	14.70	16.23	18.46	20.75	24.05	27.42	30.45	34.25	38.81
Insulation diameter	mm app.	17.02	18.72	20.57	21.92	23.37	24.90	27.13	29.42	33.52	37.67	40.70	44.50	49.06
Bedding diameter	mm app.	21.87	23.57	25.42	26.77	28.22	29.75	31.98	34.27	38.37	42.73	45.96	49.76	54.53
Armour diameter	mm app.	25.07	26.77	28.62	29.97	32.22	33.75	35.98	38.27	42.37	47.73	50.96	54.76	59.53
Cable diameter	mm app.	29.54	31.45	33.30	34.85	37.31	38.84	41.27	43.56	48.07	53.63	57.07	61.08	66.25
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	1.353	1.634	1.955	2.258	2.692	3.096	3.743	4.417	5.527	6.936	8.481	10.35	12.61
Gross mass (500 m)	kg app.	780.5	921	1160	1311	1552	1742	2208	2466	3096	3868	4869	5645	6886
Bending radius	mm min.	591	629	666	697	746	777	825	871	961	1073	1141	1222	1325
DC Resistance @ 20°C	Ω/km	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060	0.047	0.037	0.028	0.022	0.018
AC Resistance @ 90°C	Ω/km	0.494	0.342	0.247	0.196	0.159	0.128	0.098	0.080	0.064	0.052	0.042	0.036	0.031
Reactance	Ω/km	0.143	0.135	0.128	0.122	0.119	0.115	0.111	0.107	0.103	0.102	0.099	0.096	0.093
Impedance	Ω/km	0.514	0.368	0.278	0.231	0.199	0.172	0.148	0.133	0.121	0.114	0.108	0.103	0.098
Capacitance	μF/km	0.264	0.298	0.336	0.363	0.392	0.423	0.468	0.514	0.596	0.679	0.739	0.815	0.906
Zero Sequence Resistance	Ω/km	0.793	0.621	0.506	0.442	0.349	0.308	0.266	0.236	0.203	0.152	0.135	0.120	0.108
Zero Sequence Reactance	Ω/km	0.085	0.078	0.072	0.065	0.062	0.059	0.055	0.052	0.049	0.048	0.045	0.043	0.040
Current rating:														
In ground	Amps	206	251	298	336	371	414	470	519	574	617	665	707	742
In air in shade	Amps	241	298	361	412	465	526	608	684	775	857	941	1023	1095
In air in direct sunlight	Amps	192	237	287	327	368	416	480	539	609	670	734	796	850
Short circuit ratings:														
Symmetrical (250°C)	kA (1sec)	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2	52.7	67.6	87.5	112.0	140.6
Earth fault (200°C)	kA (1sec)	9.7	10.4	11.1	11.7	15.3	16.0	17.2	18.4	20.5	28.1	30.2	32.5	35.5

Ratings above are based on standard laying conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

Soil temperature = 25°C

Depth of burial = 800mm

Air temperature = 30°C

5% tolerance on dimensions

Ratings for solid bonded, Trefoil formation

Description:	6350/11000V, Copper, 1 Core, Type B	F2FC...
Sheathing:	FRPVC (red stripe)	...081
	LHPVC (blue stripe)	...082
Specification:	SANS 1339	

Size code	...n/a...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
PHYSICAL DIMENSIONS														
Conductor size	mm ² nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.50	10.00	12.00	13.50	15.00	16.50	19.00	21.50	24.00	27.50	31.50	35.00	39.00
Insulation diameter	mm app.	17.00	18.50	20.50	22.00	23.50	25.00	27.50	30.00	34.00	38.00	42.00	46.00	50.00
Cable diameter	mm app.	24.00	25.00	27.00	29.00	30.00	32.00	35.00	37.00	41.00	45.00	50.00	54.00	58.00
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	0.89	1.28	1.58	1.86	2.18	2.56	3.18	3.71	4.71	5.84	7.28	9.06	11.15
Gross mass (500 m)	kg app.	550	755	950	1080	1275	1470	1810	2070	2625	3325	4085	4975	6280
Bending radius	mm min.	480	500	540	580	600	640	700	740	820	900	1000	1080	1160
DC Resistance @ 20°C	Ω/km	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060	0.047	0.037	0.028	0.022	0.018
AC Resistance @ 90°C	Ω/km	0.494	0.342	0.247	0.196	0.159	0.128	0.098	0.080	0.064	0.052	0.042	0.036	0.031
Reactance	Ω/km	0.129	0.121	0.115	0.109	0.104	0.102	0.099	0.094	0.093	0.091	0.089	0.087	0.085
Impedance	Ω/km	0.510	0.363	0.272	0.224	0.190	0.164	0.139	0.123	0.113	0.104	0.098	0.094	0.090
Capacitance	μF/km	0.355	0.394	0.445	0.483	0.521	0.559	0.622	0.686	0.602	0.632	0.706	0.727	0.797
Current rating:														
In ground	Amps	200	250	300	339	380	426	491	552	621	695	767	836	896
In air in shade	Amps	223	287	352	404	461	524	617	709	817	939	1059	1180	1293
In air in direct sunlight	Amps	179	231	282	323	368	418	490	562	645	739	831	923	1009
Short circuit ratings:														
Symmetrical (250°C)	kA (1sec)	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2	52.7	67.6	87.5	112.0	140.6
Earth fault (200°C)	kA (1sec)	2.0	2.2	2.4	2.6	2.7	2.9	3.2	3.4	3.8	4.3	4.7	5.1	5.5

Ratings above are based on standard laying conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

Soil temperature = 25°C

Depth of burial = 800mm

Air temperature = 30°C

5% tolerance on dimensions

Ratings for solid bonded, Trefoil formation

african cables

Description:	6350/11000V, Copper, 3 Core, Type	F2FC...
Bedding/ Armouring/ Sheathing:	A FRPVC/ SWA/ FRPVC (red stripe)	...111
Specification:	LHPVC/ SWA/ LHPVC (blue stripe)	...212
	SANS 1339	

Size code	...n/a...	3016	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300	3400
PHYSICAL DIMENSIONS													
Conductor size	mmI nom	16	25	35	50	70	95	120	150	185	240	300	400
Conductor diameter	mm app.	4.8	6.0	7.2	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4	24.3
Insulation diameter	mm app.	13.5	14.7	15.9	17.1	18.6	20.4	22.1	23.3	25.1	27.5	29.1	33.8
Bedding diameter	mm app.	36.6	39.4	42.0	44.8	48.0	52.1	56.0	58.6	62.6	68.0	71.7	82.1
Armour diameter	mm app.	40.6	44.4	47.0	49.8	53.0	57.1	61.0	64.9	68.9	74.3	78.0	88.4
Cable diameter	mm app.	45.3	49.3	52.1	55.1	58.5	62.8	67.1	71.2	75.5	81.3	85.4	96.1
TECHNICAL DATA													
Normal drum length	m	300	300	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	3.67	4.51	5.02	5.67	6.65	7.88	8.95	11.0	12.47	14.76	17.23	21.36
Gross mass (300 m)	kg app.	1277	1527	1711	1908	2242	2617	3022	3645	4087	5056	5962	7152
Bending radius	mm min.	543	591	625	661	702	754	805	855	906	976	1025	1154
DC Resistance @ 20°C	Ω/km	1.150	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060	0.047
AC Resistance @ 90°C	Ω/km	1.466	0.927	0.668	0.494	0.342	0.247	0.196	0.159	0.128	0.099	0.080	0.064
Reactance	Ω/km	0.137	0.125	0.117	0.112	0.106	0.100	0.096	0.094	0.091	0.088	0.086	0.084
Impedance	Ω/km	1.473	0.936	0.679	0.506	0.358	0.266	0.219	0.185	0.157	0.132	0.117	0.105
Capacitance	µF/km	0.191	0.215	0.240	0.265	0.295	0.332	0.366	0.390	0.426	0.475	0.507	0.601
Zero Sequence Resistance	Ω/km	2.935	2.109	1.777	1.535	1.313	1.143	1.031	0.839	0.764	0.685	0.636	0.550
Zero Sequence Reactance	Ω/km	0.154	0.149	0.142	0.137	0.130	0.124	0.120	0.119	0.115	0.110	0.108	0.103
Current rating:													
In ground	Amps	106	135	161	190	231	275	310	346	387	443	491	550
In air in shade	Amps	113	147	177	211	259	313	358	403	457	529	592	678
In air in direct sunlight	Amps	100	129	156	185	227	274	312	352	398	461	515	588
Short circuit ratings:													
Symmetrical (250°C)	kA (1sec)	2.2	3.4	4.7	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2	52.7
Earth fault (200°C)	kA (1sec)	11.9	15.6	16.6	17.6	18.9	20.4	21.9	28.3	30.2	32.6	34.3	39.1

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal

resistance = 1.2 Km/W

Soil temperature = 25 °C

Depth of burial = 800 mm

Air temperature = 30 °C

Single circuit in isolation

5% tolerance on dimensions

Description:	6350/11000V, Copper, 3 Core, Type	F2FC...
Sheathing:	B FRPVC (red stripe)	...001
	LHPVC (blue stripe)	...002
Specification:	SANS 1339	

Size code	...n/a...	3016	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300	3400
PHYSICAL DIMENSIONS													
Conductor size	mmI nom	16	25	35	50	70	95	120	150	185	240	300	400
Conductor diameter	mm app.	4.8	6.0	7.2	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4	20.4
Insulation diameter	mm app.	13.5	14.7	15.9	17.1	18.6	20.4	22.1	23.3	25.1	27.5	29.1	29.1
Bedding diameter	mm app.	34.5	37.1	39.7	42.3	45.6	49.0	52.7	55.3	59.2	64.3	67.8	67.8
Cable diameter	mm app.	39.1	41.6	44.4	47.2	50.7	54.5	58.4	61.2	65.3	70.7	74.6	74.6
TECHNICAL DATA													
Normal drum length	m	300	300	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	1.74	2.133	2.61	3.11	3.86	4.60	5.43	6.43	7.61	9.46	11.50	14.16
Gross mass (300 m)	kg app.	626.9	814.9	964.1	1115	1363	1717	1923	2259	2614	3237	4079	4940
Bending radius	mm min.	586	625	667	709	760	818	876	918	980	1061	1119	1119
DC Resistance @ 20°C	Ω/km	1.150	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060	0.047
AC Resistance @ 90°C	Ω/km	1.466	0.927	0.668	0.494	0.342	0.247	0.196	0.159	0.128	0.099	0.080	0.064
Reactance	Ω/km	0.138	0.126	0.118	0.112	0.106	0.100	0.096	0.094	0.091	0.088	0.086	0.086
Impedance	Ω/km	1.473	0.936	0.679	0.506	0.358	0.266	0.219	0.185	0.157	0.132	0.117	0.107
Capacitance	μF/km	0.191	0.215	0.240	0.265	0.295	0.332	0.366	0.390	0.426	0.475	0.507	0.507
Current rating:													
In ground	Amps	108	140	167	197	240	285	323	362	408	472	528	590
In air in shade	Amps	115	152	184	220	272	325	375	423	484	569	644	719
In air in direct sunlight	Amps	102	134	162	194	239	286	329	371	424	497	562	628
Short circuit ratings:													
Symmetrical (250°C)	kA (1sec)	2.2	3.4	4.7	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2	52.7
Earth fault (200°C)	kA (1sec)	3.9	4.2	4.5	4.8	5.2	2.8	3.0	3.2	3.4	3.7	3.9	3.9

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal

resistance = 1.2 Km/W

Soil temperature = 25 °C

Depth of burial = 800 mm

Air temperature = 30 °C

5% tolerance on dimensions

african cables

Description:	12700/22000V, Copper, 1 Core, Type A FRPVC/AWA/ FRPVC (red stripe)	F2HC...
Bedding/ Sheathing:	LHPVC/AWA/ LHPVC (blue stripe)	...141
Specification:	SANS 1339	...242

Size code	...n/a...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
PHYSICAL DIMENSIONS														
Conductor size	mm nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.35	10.05	11.90	13.25	14.70	16.23	18.46	20.75	24.05	27.42	30.45	34.25	38.81
Insulation diameter	mm app.	21.33	23.03	20.57	26.23	27.68	29.21	31.44	33.73	37.83	41.98	45.01	48.81	53.37
Bedding diameter	mm app.	26.18	27.88	25.42	31.08	32.53	34.06	36.29	38.78	42.88	47.24	50.27	54.27	59.04
Armour diameter	mm app.	29.38	31.88	28.62	35.08	36.53	38.06	40.29	43.78	47.88	52.24	55.27	59.27	64.04
Cable diameter	mm app.	34.26	36.76	33.30	40.16	41.82	43.35	45.78	49.48	53.79	58.35	61.79	66.00	70.97
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	1.650	2.013	2.367	2.656	2.998	3.410	4.055	4.930	6.047	7.268	9.002	10.67	12.85
Gross mass (500 m)	kg app.	1007	1189	1390	1552	1835	1962	2360	2797	3652	4262	4973	5915	7156
Bending radius	mm min.	685	735	666	803	836	867	916	990	1076	1167	1236	1320	1419
DC Resistance @ 20°C	Ω/km	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060	0.047	0.037	0.028	0.022	0.018
AC Resistance @ 90°C	Ω/km	0.494	0.342	0.247	0.196	0.159	0.128	0.098	0.079	0.063	0.051	0.042	0.035	0.030
Reactance	Ω/km	0.152	0.145	0.128	0.131	0.126	0.122	0.117	0.115	0.110	0.107	0.104	0.101	0.098
Impedance	Ω/km	0.517	0.372	0.278	0.235	0.203	0.177	0.153	0.139	0.127	0.119	0.112	0.107	0.102
Capacitance	μF/km	0.185	0.206	0.336	0.247	0.265	0.285	0.313	0.341	0.361	0.444	0.481	0.529	0.585
Zero Sequence Resistance	Ω/km	0.746	0.535	0.506	0.369	0.325	0.286	0.247	0.191	0.165	0.143	0.127	0.113	0.102
Zero Sequence Reactance	Ω/km	0.096	0.089	0.072	0.075	0.070	0.067	0.062	0.060	0.056	0.054	0.051	0.048	0.045
Current rating:														
In ground	Amps	206	250	298	334	371	413	469	512	565	618	667	711	748
In air in shade	Amps	244	303	361	416	468	529	612	682	772	863	948	1030	1107
In air in direct sunlight	Amps	193	239	287	328	369	416	480	534	603	672	736	799	857
Short circuit ratings:														
Symmetrical (250°C)	kA (1sec)	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2	52.7	67.6	87.5	112.0	140.6
Earth fault (200°C)	kA (1sec)	11.5	15.1	16.0	16.7	17.5	18.3	19.4	25.7	28.2	31.0	32.9	35.4	38.4

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal resistance = 1.2Km/W

Soil temperature = 25°C

Depth of burial = 800mm

Air temperature = 30°C

5% tolerance on dimensions

Ratings for solid bonded, Trefoil formation

Description: 12700/22000V, Copper, 1 Core, Type F2HC...
Sheathing: B FRPVC (red stripe) ...081
 LHPVC (blue stripe) ...082
Specification: SANS 1339

Size code	...n/a...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
PHYSICAL DIMENSIONS														
Conductor size	mm i nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.50	10.00	12.00	13.50	15.00	16.50	19.00	21.50	24.00	27.50	31.50	35.00	39.00
Insulation diameter	mm app.	21.00	23.00	24.50	26.00	27.50	29.50	32.00	34.00	38.50	42.00	46.00	50.50	54.50
Cable diameter	mm app.	28.00	30.00	32.00	33.00	35.00	37.00	39.00	41.00	46.00	50.00	54.00	59.00	63.00
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	1.029	1.229	1.815	2.115	2.424	2.700	3.340	3.984	4.928	5.986	7.457	9.542	11.64
Gross mass (500 m)	kg app.	745	765	1090	1275	1429	1567	1887	2261	2866	3434	4170	5572	6639
Bending radius	mm min.	560	600	640	660	700	740	780	820	920	1000	1080	1180	1260
DC Resistance @ 20°C	Ω/km	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060	0.047	0.037	0.028	0.022	0.018
AC Resistance @ 90°C	Ω/km	0.494	0.342	0.247	0.196	0.159	0.128	0.098	0.079	0.063	0.051	0.042	0.035	0.030
Reactance	Ω/km	0.139	0.133	0.125	0.117	0.113	0.111	0.105	0.101	0.101	0.097	0.094	0.093	0.090
Impedance	Ω/km	0.513	0.367	0.277	0.228	0.195	0.169	0.144	0.128	0.119	0.110	0.102	0.099	0.095
Capacitance	μF/km	0.231	0.243	0.283	0.305	0.328	0.336	0.371	0.424	0.391	0.434	0.483	0.488	0.533
Current rating:														
In ground	Amps	205	250	299	339	379	426	493	553	621	694	771	841	902
In air in shade	Amps	236	293	357	411	466	531	628	717	823	939	1070	1188	1301
In air in direct sunlight	Amps	189	234	284	327	369	421	496	566	646	736	836	925	1011
Short circuit ratings:														
Symmetrical (250°C)	kA (1sec)	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2	52.7	67.6	87.5	112.0	140.6
Earth fault (200°C)	kA (1sec)	2.5	2.7	2.8	3.0	3.2	3.4	3.6	3.8	4.3	4.7	5.1	5.6	6.0

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal resistance

= 1.2Km/W

Soil temperature = 25°C

Depth of burial = 800mm

Air temperature = 30°C

5% tolerance on dimensions

Ratings for solid bonded, Trefoil formation

Description:	12700/22000V, Copper, 3 Core, Type	F2HC...
Bedding/ Armouring/ Sheathing:	A FRPVC/SWA/FRPVC (red stripe)	...111
Specification:	LHPVC/SWA/LHPVC (blue stripe)	...212
	SANS 1339	

Size code	...n/a...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DIMENSIONS											
Conductor size	mmI nom	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	6.0	7.2	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4
Insulation diameter	mm app.	19.0	20.2	21.4	22.9	24.7	26.4	27.6	29.4	31.8	33.4
Bedding diameter	mm app.	49.1	51.7	54.3	57.7	61.8	65.5	68.3	72.4	77.7	81.2
Armour diameter	mm app.	54.1	56.7	59.3	64.0	68.1	71.8	74.6	78.7	84.0	87.5
Cable diameter	mm app.	59.6	62.4	65.2	70.2	74.7	78.5	81.5	86.0	91.6	95.5
TECHNICAL DATA											
Normal drum length	m	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	5.871	6.336	6.986	8.890	10.27	12.66	12.61	14.27	16.81	19.49
Gross mass (300 m)	kg app.	1987	2237	2432	3014	3427	4427	4410	4753	5789	6591
Bending radius	mm min.	715	749	782	842	896	942	978	1032	1100	1146
DC Resistance @ 20°C	Ω/km	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060
AC Resistance @ 90°C	Ω/km	0.927	0.668	0.494	0.342	0.247	0.196	0.159	0.128	0.098	0.079
Reactance	Ω/km	0.139	0.131	0.124	0.117	0.111	0.107	0.104	0.100	0.096	0.094
Impedance	Ω/km	0.938	0.681	0.509	0.362	0.271	0.223	0.190	0.162	0.138	0.123
Capacitance	μF/km	0.154	0.170	0.185	0.205	0.227	0.249	0.264	0.287	0.317	0.337
Zero Sequence Resistance	Ω/km	1.879	1.572	1.354	1.032	0.892	0.805	0.744	0.680	0.613	0.571
Zero Sequence Reactance	Ω/km	0.155	0.148	0.143	0.139	0.134	0.129	0.126	0.122	0.117	0.114
Current rating:											
In ground	Amps	135	161	190	230	274	310	344	385	441	490
In air in shade	Amps	149	179	213	263	316	362	405	457	530	594
In air in direct sunlight	Amps	130	157	186	229	275	314	352	397	459	514
Short circuit ratings:											
Symmetrical (250°C)	kA (1sec)	3.4	4.7	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2
Earth fault (200°C)	kA (1sec)	19.3	20.3	21.3	27.9	29.8	31.5	32.8	34.6	37.1	38.7

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal

resistance = 1.2 Km/W

Soil temperature = 25 °C

Depth of burial = 800 mm

Air temperature = 30 °C

Single circuit in isolation

5% tolerance on dimensions

Description:	12700/22000V, Copper, 3 Core, Type	F2HC...
Sheathing:	B FRPVC (red stripe)	...001
	LHPVC (blue stripe)	...002
Specification:	SANS 1339	

Size code	...n/a...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DATA											
Conductor size	mmI nom	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	6.0	7.2	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4
Insulation diameter	mm app.	19.0	20.2	21.4	22.9	24.7	26.4	27.6	29.4	31.8	33.4
Bedding diameter	mm app.	46.0	48.6	51.2	54.4	58.3	62.0	64.6	68.5	73.6	77.1
Cable diameter	mm app.	51.5	54.3	57.1	60.6	64.7	68.5	71.5	75.6	81.2	84.9
TECHNICAL DATA											
Normal drum length	m	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	2.714	3.007	3.746	4.463	5.430	6.356	7.406	8.657	10.28	12.667
Gross mass (300 m)	kg app.	1020	1240	1370	1675	1965	2310	2570	3225	3780	4495
Bending radius	mm min.	773	815	857	909	970	1028	1073	1135	1218	1273
DC Resistance @ 20°C	Ω/km	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060
AC Resistance @ 90°C	Ω/km	0.927	0.668	0.494	0.342	0.247	0.196	0.159	0.128	0.098	0.079
Reactance	Ω/km	0.139	0.131	0.124	0.117	0.111	0.107	0.104	0.100	0.096	0.094
Impedance	Ω/km	0.938	0.681	0.509	0.362	0.271	0.223	0.190	0.162	0.138	0.123
Capacitance	μF/km	0.154	0.170	0.185	0.205	0.227	0.249	0.264	0.287	0.317	0.337
Current rating:											
In ground	Amps	139	165	195	238	284	323	361	407	470	527
In air in shade	Amps	153	185	220	272	330	380	427	488	571	647
In air in direct sunlight	Amps	134	162	193	238	288	332	373	425	497	562
Short circuit ratings:											
Symmetrical (250°C)	kA (1sec)	3.4	4.7	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2
Earth fault (200°C)	kA (1sec)	2.7	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.3	4.5

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal

resistance = 1.2 Km/W

Soil temperature = 25 °C

Depth of burial = 800 mm

Air temperature = 30 °C

5% tolerance on dimensions

african cables

Description:	19000/33000V, Copper, 1 Core, Type A FRPVC/AWA/FRPVC (red stripe)	F2JC...
Bedding/Armouring/Sheathing:	LHPVC/AWA/LHPVC (blue stripe)	...141
Specification:	SANS 1339	...242

Size code	...n/a...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
PHYSICAL DIMENSIONS														
Conductor size	mmI nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.35	10.05	11.90	13.25	14.70	16.23	18.46	20.75	24.05	27.42	30.45	34.25	38.81
Insulation diameter	mm app.	26.45	28.15	30.00	31.35	32.80	34.33	36.56	38.85	42.95	41.98	50.13	53.93	58.49
Bedding diameter	mm app.	31.30	33.00	34.85	36.20	37.86	39.39	41.62	44.11	48.21	47.24	55.60	59.60	64.37
Armour diameter	mm app.	36.30	37.00	38.85	40.20	42.86	44.39	46.62	49.11	53.21	52.24	60.60	65.90	70.67
Cable diameter	mm app.	40.59	42.29	44.35	45.70	48.56	50.29	52.52	55.22	59.53	58.35	67.32	73.04	78.01
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	2.15	2.45	2.81	3.11	3.65	4.11	4.82	5.59	6.59	7.94	9.44	11.71	13.98
Gross mass (500 m)	kg app.	1565	1700	1900	2050	2320	2550	3090	3475	3975	4650	5405	6550	8250
Bending radius	mm min.	812	846	887	914	971	1006	1050	1104	1191	1167	1346	1461	1560
DC Resistance @ 20°C	Ω/km	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060	0.047	0.037	0.028	0.022	0.018
AC Resistance @ 90°C	Ω/km	0.494	0.342	0.247	0.196	0.159	0.128	0.098	0.079	0.063	0.051	0.041	0.034	0.030
Reactance	Ω/km	0.163	0.154	0.146	0.139	0.135	0.131	0.126	0.122	0.117	0.107	0.110	0.107	0.104
Impedance	Ω/km	0.520	0.375	0.287	0.240	0.209	0.183	0.159	0.145	0.133	0.119	0.117	0.113	0.108
Capacitance	µF/km	0.144	0.159	0.176	0.188	0.200	0.214	0.233	0.253	0.289	0.444	0.351	0.383	0.422
Zero Sequence Resistance	Ω/km	0.609	0.506	0.402	0.345	0.275	0.239	0.203	0.178	0.154	0.143	0.119	0.091	0.082
Zero Sequence Reactance	Ω/km	0.107	0.099	0.091	0.084	0.080	0.076	0.071	0.067	0.063	0.054	0.057	0.054	0.051
Current rating:														
In ground	Amps	205	250	296	333	368	409	463	511	565	618	670	703	742
In air in shade	Amps	246	304	367	418	470	529	610	684	774	863	955	1028	1108
In air in direct sunlight	Amps	193	239	288	328	367	413	476	533	601	672	739	794	853
Short circuit ratings:														
Symmetrical (250°C)	kA (1sec)	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2	52.7	67.6	87.5	112.0	140.6
Earth fault (200°C)	kA (1sec)	16.8	17.7	18.7	19.4	25.1	26.0	27.4	29.0	31.6	31.0	36.2	31.6	34.1

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal resistance = 1.2Km/W

Soil temperature = 25°C

Depth of burial = 800mm

Air temperature = 30°C

5% tolerance on dimensions

Ratings for solid bonded, Trefoil formation

Description: 19000/33000V, Copper, 1 Core, Type F2JC...
Sheathing: B FRPVC (red stripe) ...081
 LHPVC (blue stripe) ...082
Specification: SANS 1339

Size code	...n/a...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
PHYSICAL DIMENSIONS														
Conductor size	mm i nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.50	10.00	12.00	13.50	14.38	16.50	19.00	21.50	24.00	26.43	31.50	35.00	39.00
Insulation diameter	mm app.	26.50	28.00	30.00	31.00	32.45	34.50	37.00	39.50	43.50	46.11	51.00	55.50	59.50
Cable diameter	mm app.	33.00	35.00	37.00	38.00	40.28	42.00	44.00	47.00	51.00	54.13	60.00	64.00	69.00
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	1.484	1.694	2.069	2.158	2.647	3.064	3.689	4.439	5.274	6.704	7.986	9.768	11.31
Gross mass (500 m)	kg app.	925	1090	1275	1310	1565	2025	2340	2720	3130	4035	4675	5565	6475
Bending radius	mm min.	660	700	740	760	806	840	880	940	1020	1083	1200	1280	1380
DC Resistance @ 20°C	Ω/km	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060	0.047	0.037	0.028	0.022	0.018
AC Resistance @ 90°C	Ω/km	0.494	0.342	0.247	0.196	0.159	0.128	0.098	0.079	0.063	0.050	0.041	0.034	0.030
Reactance	Ω/km	0.149	0.142	0.134	0.126	0.125	0.119	0.113	0.109	0.107	0.105	0.100	0.098	0.096
Impedance	Ω/km	0.516	0.371	0.281	0.233	0.202	0.174	0.149	0.135	0.124	0.116	0.108	0.103	0.100
Capacitance	μF/km	0.166	0.181	0.200	0.220	0.198	0.243	0.267	0.291	0.291	0.316	0.355	0.367	0.399
Current rating:														
In ground	Amps	206	250	300	340	375	427	493	553	622	694	771	846	904
In air in shade	Amps	242	299	364	418	467	538	634	723	829	937	1069	1198	1301
In air in direct sunlight	Amps	192	236	288	330	368	423	498	567	648	731	831	929	1006
Short circuit ratings:														
Symmetrical (250°C)	kA (1sec)	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2	52.7	67.6	87.5	112.0	140.6
Earth fault (200°C)	kA (1sec)	3.0	3.2	3.4	3.5	3.67	3.9	4.2	4.4	4.9	5.1	5.7	6.1	6.6

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal resistance

= 1.2Km/W

Soil temperature = 25°C

Depth of burial = 800mm

Air temperature = 30°C

5% tolerance on dimensions

Ratings for solid bonded, Trefoil formation

Description:	19000/33000V, Copper, 3 Core, Type	F2JC...
Bedding/ Armouring/ Sheathing:	A FRPVC/ SWA/ FRPVC (red stripe)	...111
	LHPVC/ SWA/ LHPVC (blue stripe)	...212
Specification:	SANS 1339	

Size code	...n/a...	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DIMENSIONS									
Conductor size	mmI nom	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4
Insulation diameter	mm app.	26.5	28.0	29.8	31.5	32.7	34.5	36.9	38.5
Bedding diameter	mm app.	65.9	69.2	73.3	77.2	79.7	83.8	89.2	92.9
Armour diameter	mm app.	72.2	75.5	79.6	84.3	86.0	90.1	95.5	100.0
Cable diameter	mm app.	79.2	82.7	87.0	91.8	93.8	98.1	103.9	108.8
TECHNICAL DATA									
Normal drum length	m	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	9.911	11.043	12.821	14.046	15.330	16.930	19.449	25.221
Gross mass (300 m)	kg app.	3601	4006	4318	4959	5344	5772	6565	8311
Bending radius	mm min.	951	992	1043	1102	1126	1178	1247	1306
DC Resistance @ 20°C	Ω/km	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060
AC Resistance @ 90°C	Ω/km	0.494	0.342	0.247	0.196	0.159	0.128	0.098	0.079
Reactance	Ω/km	0.137	0.129	0.122	0.117	0.114	0.110	0.105	0.103
Impedance	Ω/km	0.512	0.366	0.275	0.228	0.196	0.168	0.144	0.129
Capacitance	μF/km	0.144	0.158	0.174	0.189	0.199	0.215	0.236	0.250
Zero Sequence Resistance	Ω/km	1.100	0.920	0.836	0.672	0.702	0.644	0.583	0.475
Zero Sequence Reactance	Ω/km	0.151	0.145	0.141	0.136	0.133	0.129	0.125	0.122
Current rating:									
In ground	Amps	189	229	273	308	343	385	440	485
In air in shade	Amps	214	263	317	362	406	459	531	592
In air in direct sunlight	Amps	186	228	274	313	351	396	458	511
Short circuit ratings:									
Symmetrical (250°C)	kA (1sec)	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2
Earth fault (200°C)	kA (1sec)	31.7	33.2	39.2	41.2	42.5	44.6	47.4	49.3

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal

resistance = 1.2 Km/W

Soil temperature = 25 °C

Depth of burial = 800 mm

Air temperature = 30 °C

Single circuit in isolation

5% tolerance on dimensions

Description:	19000/33000V, Copper, 3 Core, Type	F2JC...
Sheathing:	B FRPVC (red stripe)	...001
	LHPVC (blue stripe)	...002
Specification:	SANS 1339	

Size code	...n/a...	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DIMENSIONS									
Conductor size	mmI nom	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4
Insulation diameter	mm app.	26.5	28.0	29.8	31.5	32.7	34.5	36.9	38.5
Bedding diameter	mm app.	62.3	65.5	69.4	73.1	75.6	79.5	84.7	88.2
Cable diameter	mm app.	69.0	72.5	76.6	80.6	83.4	87.5	93.1	96.8
TECHNICAL DATA									
Normal drum length	m	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	4.762	5.611	6.647	7.612	8.631	9.886	11.910	14.263
Gross mass (300 m)	kg app.	1829	2311	2622	2977	3282	3659	4318	5379
Bending radius	mm min.	1035	1087	1148	1210	1252	1313	1397	1452
DC Resistance @ 20°C	Ω/km	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060
AC Resistance @ 90°C	Ω/km	0.494	0.342	0.247	0.196	0.159	0.128	0.098	0.079
Reactance	Ω/km	0.137	0.129	0.122	0.117	0.114	0.110	0.105	0.103
Impedance	Ω/km	0.512	0.366	0.275	0.228	0.196	0.168	0.144	0.129
Capacitance	μF/km	0.144	0.158	0.174	0.189	0.199	0.215	0.236	0.250
Current rating:									
In ground	Amps	195	237	284	322	360	407	470	527
In air in shade	Amps	223	275	333	383	431	491	574	649
In air in direct sunlight	Amps	194	239	290	332	374	426	497	562
Short circuit ratings:									
Symmetrical (250°C)	kA (1sec)	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2
Earth fault (200°C)	kA (1sec)	3.6	3.8	4.0	4.3	4.4	4.6	4.9	5.1

Ratings above are based on standard laying conditions for a single circuit in isolation as follows: Soil thermal

resistance = 1.2 Km/W

Soil temperature = 25 °C

Depth of burial = 800 mm

Air temperature = 30 °C

5% tolerance on dimensions

african cables

XLPE
W/B, CSA, PE

F2LA... Primary group code
...068 Finish code

Aluminium I Core
25000/44000V
AFCAB SPEC

Single Point/Cross Bonded Cable Systems

Size Code	..naaa...	1300	1400	1500	1630	1800	1999
Physical Dimensions:							
Conductor Size	mm ² nom	300	400	500	630	800	1000
Conductor Diameter	mm app.	20.5	24.0	26.5	30.0	34.5	39.0
Insulation Diameter	mm app.	43.0	46.0	48.0	51.0	55.0	59.0
Outer S/C Screen Diameter	mm app.	44.5	47.5	49.5	52.5	56.5	60.5
CSA Diameter	mm app.	63.0	66.0	68.5	71.5	76.0	80.0
Cable Diameter (D)	mm app.	70.5	74.0	76.0	79.5	84.0	88.5
Cable Mass	kg/m app.	4.6	5.1	5.5	6.2	7.0	7.9
Gross Mass (500 m)	kg app.	3294	3535	3760	4082	4485	4927
Current Ratings:							
Flat Formation @ (2xD)							
In ground	Amps	449	515	586	668	757	845
In air	Amps	684	804	931	1083	1257	1439
Trefoil Formation							
In ground	Amps	426	486	550	621	695	765
In air	Amps	590	687	789	908	1038	1164
Electrical Parameters:							
AC Resistance @ 90°C	Ω/km max	0.129	0.101	0.079	0.062	0.049	0.040
Capacitance	μF/km	0.229	0.261	0.285	0.316	0.357	0.400
Reactance (Flat)	Ω/km	0.195	0.172	0.168	0.163	0.174	0.169
Impedance (Flat)	Ω/km	0.234	0.199	0.185	0.174	0.181	0.174
Reactance (Trefoil)	Ω/km	0.137	0.114	0.109	0.105	0.116	0.111
Impedance (Trefoil)	Ω/km	0.189	0.152	0.135	0.122	0.126	0.119
Zero Sequence:							
Resistance	Ω/km	0.193	0.162	0.138	0.119	0.103	0.090
Reactance	Ω/km	0.080	0.057	0.053	0.048	0.060	0.056
Short Circuit Ratings:							
Symmetrical	kA (1sec)	27.8	37.0	46.3	58.3	74.0	92.5
Earth Fault	kA (1sec)	46.1	48.3	49.9	52.2	55.3	58.6

Physical Dimensions are nominal values.

When ordering please quote: primary + size + finish code
e.g. F2LA_1400_068



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XLPE
W/B, CSA, PE

F2MA... Primary group code
...068 Finish code

Aluminium 1 Core
38000/66000V
AFCAB SPEC

Single Point/Cross Bonded Cable Systems

Size Code	...naaa...	1300	1400	1500	1630	1800	1999
Physical Dimensions:							
Conductor Size	mm ² nom	300	400	500	630	800	1000
Conductor Diameter	mm app.	20.5	24.0	26.5	30.0	34.5	39.0
Insulation Diameter	mm app.	49.0	51.5	53.5	56.0	60.5	65.5
Outer S/C Screen Diameter	mm app.	51.0	53.5	55.5	58.0	62.5	67.5
CSA Diameter	mm app.	70.0	72.5	74.5	77.5	82.0	87.0
Cable Diameter (D)	mm app.	77.5	80.5	82.5	86.0	90.5	96.0
Cable Mass	kg/m app.	5.4	5.9	6.3	7.0	7.9	9.0
Gross Mass (500 m)	kg app.	3711	3942	4161	4470	4933	5475
Current Ratings:							
Flat Formation @ (2xD)							
In ground	Amps	448	514	585	667	755	844
In air	Amps	671	788	913	1062	1229	1403
Trefoil Formation							
In ground	Amps	426	487	550	621	695	765
In air	Amps	586	682	783	901	1030	1158
Electrical Parameters:							
AC Resistance @ 90°C	Ω/km max	0.129	0.101	0.079	0.062	0.049	0.040
Capacitance	μF/km	0.192	0.218	0.238	0.264	0.291	0.315
Reactance (Flat)	Ω/km	0.202	0.177	0.173	0.168	0.179	0.175
Impedance (Flat)	Ω/km	0.239	0.203	0.190	0.179	0.185	0.179
Reactance (Trefoil)	Ω/km	0.144	0.119	0.115	0.109	0.121	0.117
Impedance (Trefoil)	Ω/km	0.193	0.156	0.140	0.126	0.131	0.124
Zero Sequence:							
Resistance	Ω/km	0.187	0.180	0.133	0.114	0.098	0.086
Reactance	Ω/km	0.087	0.063	0.059	0.054	0.065	0.061
Short Circuit Ratings:							
Symmetrical	kA (1sec)	27.8	37.0	46.3	58.3	74.0	92.5
Earth Fault	kA (1sec)	51.2	53.1	54.5	56.6	60.0	63.8

Physical Dimensions are nominal values.
When ordering please quote: primary + size + finish code
e.g. F2MA_1400_068



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XLPE
W/B, CSA, PE

F2NA... Primary group code
...068 Finish code

Aluminium 1 Core
51000/88000V
AFCAB SPEC

Single Point/Cross Bonded Cable Systems

Size Code	...naaa...	1300	1400	1500	1630	1800	1999
Physical Dimensions:							
Conductor Size	mm ² nom	300	400	500	630	800	1000
Conductor Diameter	mm app.	21.0	24.0	26.5	30.0	34.5	39.0
Insulation Diameter	mm app.	56.0	57.5	59.5	61.5	67.0	72.0
Outer S/C Screen Diameter	mm app.	59.0	60.5	62.0	64.5	69.5	74.5
CSA Diameter	mm app.	78.0	80.0	81.5	84.0	89.5	94.5
Cable Diameter (D)	mm app.	86.5	88.0	90.0	92.5	98.5	104.0
Cable Mass	kg/m app.	6.5	6.9	7.4	7.9	9.0	10.1
Gross Mass (500 m)	kg app.	4250	4428	4663	4953	5496	6059
Current Ratings:							
Flat Formation @ (2xD)							
In ground	Amps	447	513	584	665	753	842
In air	Amps	657	773	894	1041	1203	1373
Trefoil Formation							
In ground	Amps	425	485	549	620	694	766
In air	Amps	581	677	777	894	1021	1149
Electrical Parameters:							
AC Resistance @ 90°C	Ω/km max	0.129	0.101	0.079	0.062	0.049	0.040
Capacitance	μF/km	0.167	0.191	0.207	0.230	0.248	0.267
Reactance (Flat)	Ω/km	0.208	0.183	0.179	0.173	0.184	0.180
Impedance (Flat)	Ω/km	0.245	0.209	0.195	0.184	0.190	0.184
Reactance (Trefoil)	Ω/km	0.150	0.125	0.121	0.115	0.126	0.121
Impedance (Trefoil)	Ω/km	0.198	0.161	0.144	0.130	0.135	0.128
Zero Sequence:							
Resistance	Ω/km	0.181	0.152	0.129	0.110	0.094	0.082
Reactance	Ω/km	0.094	0.070	0.065	0.059	0.071	0.067
Short Circuit Ratings:							
Symmetrical	kA (1sec)	27.8	37.0	46.3	58.3	74.0	92.5
Earth Fault	kA (1sec)	57.1	58.4	59.6	61.5	65.4	69.2

Physical Dimensions are nominal values.

When ordering please quote: primary + size + finish code
e.g. F2NA_1400_068



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XLPE
 W/B, CSA, PE

 F2PA... Primary group code
 ...068 Finish code

 Aluminium I Core
 76000/132000V
 AFCAB SPEC

Single Point /Cross Bonded Cable Systems

Size Code	Units	1300	1400	1500	1630	1800	1999
Physical Dimensions:							
Conductor Size	mm ² nom	300	400	500	630	800	1000
Conductor Diameter	mm app.	21.0	24.0	26.5	30.0	34.5	39.0
Insulation Diameter	mm app.	70.5	70.0	71.0	72.0	78.0	83.5
Outer S/C Screen Diameter	mm app.	74.0	73.5	74.0	75.0	81.0	86.5
CSA Diameter	mm app.	94.0	93.5	94.0	95.0	101.5	107.0
Cable Diameter (D)	mm app.	103.0	102.5	103.0	104.5	111.5	117.5
Cable Mass	kg/m app.	8.920	8.922	9.221	9.647	11.028	12.355
Gross Mass (500 m)	kg app.	5454	5455	5605	5818	6508	7172
Current Ratings:							
Flat Formation @ (2xD)							
In ground	Amps	445	511	581	662	751	840
In air	Amps	635	749	868	1012	1167	1330
Trefoil Formation							
In ground	Amps	425	485	549	620	695	767
In air	Amps	572	667	766	883	1007	1134
Electrical Parameters:							
AC Resistance @ 90°C	Ω/km max	0.129	0.101	0.079	0.062	0.049	0.039
Capacitance	μF/km	0.141	0.158	0.170	0.187	0.199	0.212
Reactance (Flat)	Ω/km	0.219	0.193	0.187	0.180	0.192	0.187
Impedance (Flat)	Ω/km	0.255	0.218	0.203	0.191	0.198	0.191
Reactance (Trefoil)	Ω/km	0.162	0.135	0.129	0.122	0.134	0.129
Impedance (Trefoil)	Ω/km	0.207	0.168	0.151	0.137	0.143	0.135
Zero Sequence:							
Resistance	Ω/km	0.172	0.144	0.122	0.104	0.089	0.078
Reactance	Ω/km	0.107	0.080	0.074	0.068	0.079	0.075
Short Circuit Ratings:							
Symmetrical	kA (1sec)	27.8	37.0	46.3	58.3	74.0	92.5
Earth Fault	kA (1sec)	68.7	68.2	68.7	69.6	74.1	78.2

Physical dimensions are nominal values.

When ordering please quote: primary + size + finish code
 e.g. F2PA_1400_068


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XLPE
 W/B, CSA, PE

 F2PA... Primary group code
 ...068 Finish code

 Aluminium I Core
 76000/132000V
 AFCAB SPEC

Single Point /Cross Bonded Cable Systems

Size Code	Units	1300	1400	1500	1630	1800	1999
Physical Dimensions:							
Conductor Size	mm ² nom	300	400	500	630	800	1000
Conductor Diameter	mm app.	21.0	24.0	26.5	30.0	34.5	39.0
Insulation Diameter	mm app.	70.5	70.0	71.0	72.0	78.0	83.5
Outer S/C Screen Diameter	mm app.	74.0	73.5	74.0	75.0	81.0	86.5
CSA Diameter	mm app.	94.0	93.5	94.0	95.0	101.5	107.0
Cable Diameter (D)	mm app.	103.0	102.5	103.0	104.5	111.5	117.5
Cable Mass	kg/m app.	8.920	8.922	9.221	9.647	11.028	12.355
Gross Mass (500 m)	kg app.	5454	5455	5605	5818	6508	7172
Current Ratings:							
Flat Formation @ (2xD)							
In ground	Amps	445	511	581	662	751	840
In air	Amps	635	749	868	1012	1167	1330
Trefoil Formation							
In ground	Amps	425	485	549	620	695	767
In air	Amps	572	667	766	883	1007	1134
Electrical Parameters:							
AC Resistance @ 90°C	Ω/km max	0.129	0.101	0.079	0.062	0.049	0.039
Capacitance	μF/km	0.141	0.158	0.170	0.187	0.199	0.212
Reactance (Flat)	Ω/km	0.219	0.193	0.187	0.180	0.192	0.187
Impedance (Flat)	Ω/km	0.255	0.218	0.203	0.191	0.198	0.191
Reactance (Trefoil)	Ω/km	0.162	0.135	0.129	0.122	0.134	0.129
Impedance (Trefoil)	Ω/km	0.207	0.168	0.151	0.137	0.143	0.135
Zero Sequence:							
Resistance	Ω/km	0.172	0.144	0.122	0.104	0.089	0.078
Reactance	Ω/km	0.107	0.080	0.074	0.068	0.079	0.075
Short Circuit Ratings:							
Symmetrical	kA (1sec)	27.8	37.0	46.3	58.3	74.0	92.5
Earth Fault	kA (1sec)	68.7	68.2	68.7	69.6	74.1	78.2

Physical dimensions are nominal values.

When ordering please quote: primary + size + finish code
 e.g. F2PA_1400_068


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Description: Aluminium Milliken conductor, XLPE, W/B, CSA, LLDPE,
Voltage & Specification: HS 25.4/44kV, SANS IEC 60840/ NRS 077
Water blocking: Core is standard, conductor on request

PHYSICAL DIMENSIONS:

Conductor size (Milliken construction)	mm	1200	1600	2000	2500
Conductor diameter	mm	43	51	56	63
Diameter over s/c conductor screen	mm	48	55	61	68
Diameter over XLPE insulation	mm	61	69	75	82
Diameter over s/c core screen	mm	64	72	78	85
Diameter over CSA metallic sheath	mm	87	95	101	107
Final diameter of cable (D)	mm	100	108	114	120
Cable mass (approximate)	kg/m	9.7	11.5	13.3	15.3
Gross mass (500 m) (approximate)	kg	6350	7250	8150	9150
Minimum installation bending radius	m	3.0	3.2	3.4	3.6

RATINGS:

		Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)
Current rating in ground @ 90°C	Amps	867	954	981	1099	1070	1220	1137	1315
Current rating in air @ 90°C	Amps	1335	1632	1555	1940	1732	2196	1878	2422
AC Resistance @ 90°C	Ω/km	0.0318	0.0318	0.0241	0.0241	0.0194	0.0194	0.0166	0.0166
Reactance	Ω/km	0.1123	0.1704	0.1071	0.1652	0.1045	0.1625	0.1006	0.1587
Impedance	Ω/km	0.1167	0.1733	0.1098	0.1669	0.1063	0.1637	0.1020	0.1595
Sheath standing voltage	V/km	50.2	96.8	55.8	110.4	60.1	121.6	63.1	130.3

ELECTRICAL PARAMETERS:

DC Resistance @ 20°C	Ω/km	0.0247	0.0186	0.0149	0.0127
Max Electric stress at conductor screen	kV/mm	8	8	8	8
Max Electric stress at insulation screen	kV/mm	4	4	4	4
Capacitance	µF/km	0.55	0.62	0.68	0.74
Zero Sequence Resistance	Ω/km	0.0785	0.0670	0.0595	0.0545
Zero Sequence Reactance	Ω/km	0.0543	0.0501	0.0483	0.0450
Symmetrical fault rating (@ 250°C limit)	kA (1s)	111.0	148.0	185.0	231.3
Earth fault rating (@ 150°C limit)	kA (1s)	51.7	56.1	60.1	63.6

Ratings above are based on standard soil conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

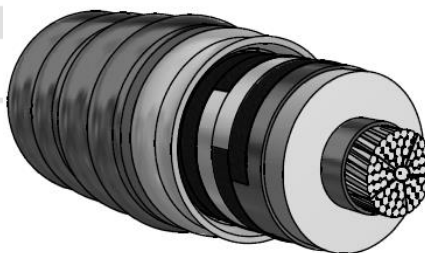
Soil temperature = 25°C

Depth of burial = 1.2m

Air temperature = 30°C

Earthing: Cross bonded or single point

5% tolerance on dimensions



Description: Aluminium Milliken conductor, XLPE, W/B, CSA, LLDPE,
Voltage & Specification: HS 38.1/66kV, SANS IEC 60840/ NRS 077
Water blocking: Core is standard, conductor on request

PHYSICAL DIMENSIONS:

Conductor size (Milliken construction)	mm	1200	1600	2000	2500
Conductor diameter	mm	43	51	56	63
Diameter over s/c conductor screen	mm	48	55	61	68
Diameter over XLPE insulation	mm	67	74	81	87
Diameter over s/c core screen	mm	70	77	84	90
Diameter over CSA metallic sheath	mm	93	100	107	113
Final diameter of cable (D)	mm	106	113	120	126
Cable mass (approximate)	kg/m	10.6	12.4	14.3	16.3
Gross mass (500 m) (approximate)	kg	6800	7700	8650	9650
Minimum installation bending radius	m	3.2	3.4	3.6	3.8

RATINGS:

		Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)
Current rating in ground @ 90°C	Amps	865	951	978	1096	1067	1216	1135	1312
Current rating in air @ 90°C	Amps	1324	1602	1543	1905	1719	2155	1866	2379
AC Resistance @ 90°C	Ω/km	0.0318	0.0318	0.0241	0.0241	0.0194	0.0194	0.0166	0.0166
Reactance	Ω/km	0.1157	0.1738	0.1103	0.1684	0.1076	0.1657	0.1036	0.1617
Impedance	Ω/km	0.1200	0.1767	0.1129	0.1701	0.1093	0.1668	0.1049	0.1625
Sheath standing voltage	V/km	49.4	95.8	55.0	109.4	59.3	120.5	62.4	129.3

ELECTRICAL PARAMETERS:

DC Resistance @ 20°C	Ω/km	0.0247	0.0186	0.0149	0.0127
Max Electric stress at conductor screen	kV/mm	8	8	8	8
Max Electric stress at insulation screen	kV/mm	4	4	4	4
Capacitance	μF/km	0.41	0.46	0.50	0.55
Zero Sequence Resistance	Ω/km	0.0757	0.0646	0.0573	0.0525
Zero Sequence Reactance	Ω/km	0.0585	0.0540	0.0520	0.0486
Symmetrical fault rating (@ 250°C limit)	kA (1s)	111.0	148.0	185.0	231.3
Earth fault rating (@ 150°C limit)	kA (1s)	55.0	59.5	63.6	67.1

Ratings above are based on standard soil conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

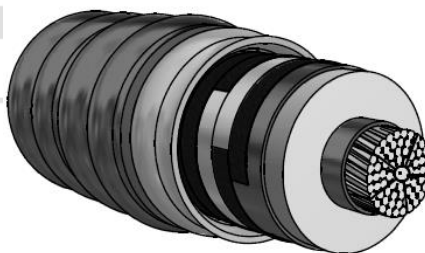
Soil temperature = 25°C

Depth of burial = 1.2m

Air temperature = 30°C

Earthing: Cross bonded or single point

bonded 5% tolerance on dimensions



Description: Aluminium Milliken conductor, XLPE, W/B, CSA, LLDPE,
Voltage & Specification: HS 50.8/88kV, SANS IEC 60840/ NRS 077
Water blocking: Core is standard, conductor on request

PHYSICAL DIMENSIONS:

Conductor size (Milliken construction)	mm	1200	1600	2000	2500
Conductor diameter	mm	43	51.0	56.1	62.8
Diameter over s/c conductor screen	mm	48	55.6	61.1	67.1
Diameter over XLPE insulation	mm	72	80.1	85.9	92.2
Diameter over s/c core screen	mm	75	83.1	89.0	95.4
Diameter over CSA metallic sheath	mm	98	106.5	112.7	120.3
Final diameter of cable (D)	mm	111	120	126	134
Cable mass (approximate)	kg/m	11.5	13.5	15.3	17.6
Gross mass (500 m) (approximate)	kg	7250	8250	9150	10300
Minimum installation bending radius	m	3.3	3.6	3.8	4.0

RATINGS:

		Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)
Current rating in ground @ 90°C	Amps	863	949	977	1093	1066	1214	1135	1312
Current rating in air @ 90°C	Amps	1314	1575	1532	1873	1707	2120	1854	2340
AC Resistance @ 90°C	Ω/km	0.0318	0.0318	0.0241	0.0241	0.0194	0.0194	0.0166	0.0166
Reactance	Ω/km	0.1190	0.1771	0.1134	0.1714	0.1106	0.1687	0.1071	0.1652
Impedance	Ω/km	0.1232	0.1799	0.1159	0.1731	0.1123	0.1698	0.1084	0.1660
Sheath standing voltage	V/km	48.8	94.9	54.4	108.5	58.6	119.6	62.2	128.9

ELECTRICAL PARAMETERS:

DC Resistance @ 20°C	Ω/km	0.0247	0.0186	0.0149	0.0127
Max Electric stress at conductor screen	kV/mm	8	8	8	8
Max Electric stress at insulation screen	kV/mm	4	4	4	4
Capacitance	μF/km	0.34	0.38	0.40	0.44
Zero Sequence Resistance	Ω/km	0.0732	0.0624	0.0553	0.0504
Zero Sequence Reactance	Ω/km	0.0625	0.0577	0.0556	0.0523
Symmetrical fault rating (@ 250°C limit)	kA (1s)	111.0	148.0	185.0	231.3
Earth fault rating (@ 150°C limit)	kA (1s)	58.3	62.9	67.1	71.4

Ratings above are based on standard soil conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

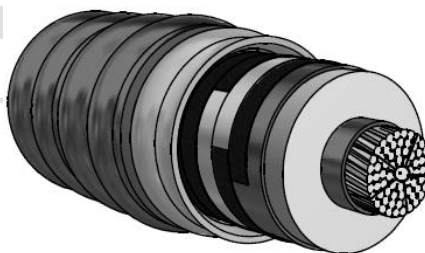
Soil temperature = 25°C

Depth of burial = 1.2m

Air temperature = 30°C

Earthing: Cross bonded or single point

bonded 5% tolerance on dimensions



Description: Aluminium Milliken conductor, XLPE, W/B, CSA, LLDPE,
Voltage & Specification: HS 76/132kV, SANS IEC 60840/ NRS 077
Water blocking: Core is standard, conductor on request

PHYSICAL DIMENSIONS:

Conductor size (Milliken construction)	mm	1200	1600	2000	2500
Conductor diameter	mm	43	51	56	63
Diameter over s/c conductor screen	mm	48	55	61	68
Diameter over XLPE insulation	mm	82	90	96	103
Diameter over s/c core screen	mm	85	93	99	106
Diameter over CSA metallic sheath	mm	108	118	125	130
Final diameter of cable (D)	mm	122	131	138	143
Cable mass (approximate)	kg/m	13.2	15.3	17.5	19.5
Gross mass (500 m) (approximate)	kg	8300	9350	10450	11450
Minimum installation bending radius	m	3.6	3.9	4.1	4.3

RATINGS:

		Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)
Current rating in ground @ 90°C	Amps	861	944	976	1090	1067	1212	1134	1306
Current rating in air @ 90°C	Amps	1298	1534	1513	1821	1689	2066	1836	2281
AC Resistance @ 90°C	Ω/km	0.0318	0.0318	0.0241	0.0241	0.0194	0.0194	0.0166	0.0166
Reactance	Ω/km	0.1245	0.1826	0.1195	0.1776	0.1163	0.1744	0.1115	0.1696
Impedance	Ω/km	0.1285	0.1853	0.1219	0.1792	0.1179	0.1755	0.1128	0.1704
Sheath standing voltage	V/km	47.7	93.4	53.7	107.4	58.2	118.9	61.0	127.2

ELECTRICAL PARAMETERS:

DC Resistance @ 20°C	Ω/km	0.0247	0.0186	0.0149	0.0127
Max Electric stress at conductor screen	kV/mm	8	8	8	8
Max Electric stress at insulation screen	kV/mm	4	4	4	4
Capacitance	μF/km	0.26	0.28	0.31	0.33
Zero Sequence Resistance	Ω/km	0.0693	0.0585	0.0518	0.0478
Zero Sequence Reactance	Ω/km	0.0690	0.0645	0.0618	0.0577
Symmetrical fault rating (@ 250°C limit)	kA (1s)	111.0	148.0	185.0	231.3
Earth fault rating (@ 150°C limit)	kA (1s)	64.4	70.1	74.3	77.2

Ratings above are based on standard soil conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

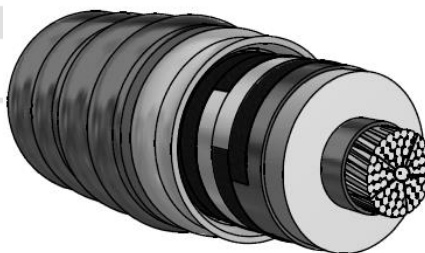
Soil temperature = 25°C

Depth of burial = 1.2m

Air temperature = 30°C

Earthing: Cross bonded or single point

bonded Tolerance on dimensions = +5%



Description: ALUMINIUM, XLPE, W/B, CSA, LLDPE, HIGH
Voltage & Specification: STRESS 25.4/44kV, SANS 60840 / NRS 077
Water blocking: Core is standard, conductor on request

PHYSICAL DIMENSIONS:

Conductor size	mm	300	400	500	630	800	1000
Conductor diameter	mm	20.4	23.9	26.4	29.7	34.2	38.7
Diameter over s/c conductor screen	mm	23.8	27.3	29.8	33.1	37.6	42.2
Diameter over XLPE insulation	mm	39.6	42.7	45.0	48.1	52.3	56.7
Diameter over s/c core screen	mm	41.3	44.4	46.6	49.7	53.9	58.4
Diameter over CSA sheath	mm	59.8	63.0	65.4	68.7	73.1	78.4
Final diameter of cable (D)	mm	70.8	74.0	76.4	79.7	84.1	89.4
Cable mass (approximate)	kg/m	4.7	5.2	5.6	6.3	7.1	8.0
Gross mass (500 m) (approximate)	kg	3550	3780	4020	4350	4735	5200
Minimum installation bending radius	m	1.4	1.5	1.5	1.6	1.7	1.8

RATINGS:

		Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)
Current rating in ground	Amps	426	450	487	516	551	588	623	670	697	759	767	84
Current rating in air	Amps	587	685	684	805	786	932	904	1084	1035	1258	1161	14
AC Resistance @ 90°C	Ω/km	0.1291	0.1289	0.1009	0.1007	0.0791	0.0787	0.0622	0.0617	0.0498	0.0490	0.0409	0.03
Reactance	Ω/km	0.1385	0.1966	0.1308	0.1889	0.1266	0.1846	0.1217	0.1798	0.1161	0.1742	0.1120	0.17
Impedance	Ω/km	0.1893	0.2351	0.1652	0.2140	0.1493	0.2007	0.1367	0.1901	0.1264	0.1810	0.1192	0.17
Sheath standing voltage	V/km	26.3	47.3	29.6	53.9	33.2	61.1	37.1	69.1	41.0	77.6	44.5	86.1

ELECTRICAL PARAMETERS:

DC Resistance @ 20°C	Ω/km	0.100	0.078	0.061	0.047	0.037	0.029
Max Electric stress at conductor screen	kV/mm	5.0	5.0	5.0	5.0	5.0	5.0
Min Electric stress at insulation screen	kV/mm	3.2	3.4	3.5	3.6	3.8	3.9
Capacitance	µF/km	0.2728	0.3102	0.3372	0.3733	0.4231	0.4719
Zero Sequence Resistance	Ω/km	0.1968	0.1651	0.1407	0.1206	0.1043	0.0920
Zero Sequence Reactance	Ω/km	0.0768	0.0700	0.0663	0.0621	0.0573	0.0539
Symmetrical fault rating (250°C)	kA (1s)	27.8	37.0	46.3	58.3	74.0	92.5
Earth fault rating (150°C)	kA (1s)	35.5	37.4	38.8	40.8	43.4	46.4

Ratings above are based on standard laying conditions for a single circuit in isolation as follows:

- Soil thermal resistance = 1.2Km/WV
- Soil temperature = 25°C
- Depth of burial = 1.2m
- Air temperature = 30°C
- Earthing = Cross bonded or single point bonded
- Tolerance on dimensions = +5%



Description: ALUMINIUM, XLPE, W/B, CSA, LLDPE, HIGH
Voltage & Specification: STRESS 38.1/66kV, SANS 60840 / NRS 077
Water blocking: Core is standard, conductor on request

PHYSICAL DIMENSIONS:

Conductor size	mm ^l	300	400	500	630	800	1000
Conductor diameter	mm	20.4	23.9	26.4	29.7	34.2	38.7
Diameter over s/c conductor screen	mm	23.8	27.3	29.8	33.1	37.6	42.2
Diameter over XLPE insulation	mm	44.0	46.8	48.9	51.8	56.7	61.6
Diameter over s/c core screen	mm	45.7	48.4	50.6	53.5	58.4	63.3
Diameter over CSA sheath	mm	64.4	67.3	69.5	72.7	77.7	82.8
Final diameter of cable (D)	mm	75.4	78.3	80.5	83.7	88.7	96.0
Cable mass (approximate)	kg/m	5.2	5.7	6.1	6.8	7.7	8.9
Gross mass (500 m) (approximate)	kg	3850	4050	4265	4580	5040	5670
Minimum installation bending radius	m	1.5	1.6	1.6	1.7	1.8	1.9

RATINGS:

		Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)
Current rating in ground	Amps	426	449	486	516	551	587	622	669	697	758	769	84
Current rating in air	Amps	584	675	681	794	782	919	900	1070	1029	1238	1162	141
AC Resistance @ 90°C	Ω/km	0.1291	0.1289	0.1009	0.1006	0.0791	0.0787	0.0622	0.0616	0.0497	0.0490	0.0407	0.03
Reactance	Ω/km	0.1425	0.2006	0.1344	0.1925	0.1299	0.1880	0.1248	0.1829	0.1195	0.1775	0.1169	0.17
Impedance	Ω/km	0.1923	0.2384	0.1681	0.2172	0.1521	0.2038	0.1394	0.1930	0.1294	0.1842	0.1238	0.17
Sheath standing voltage	V/km	25.8	46.7	29.1	53.3	32.7	60.5	36.6	68.5	40.3	76.9	45.1	86.7

ELECTRICAL PARAMETERS:

DC Resistance @ 20°C	Ω/km	0.100	0.078	0.061	0.047	0.037	0.029
Max Electric stress at conductor screen	kV/mm	6.0	6.0	6.0	6.0	5.7	5.6
Min Electric stress at insulation screen	kV/mm	3.4	3.7	3.9	4.0	4.0	4.0
Capacitance	µF/km	0.2263	0.2577	0.2801	0.3104	0.3378	0.3640
Zero Sequence Resistance	Ω/km	0.1919	0.1609	0.1370	0.1173	0.1010	0.0888
Zero Sequence Reactance	Ω/km	0.0820	0.0745	0.0705	0.0659	0.0615	0.0582
Symmetrical fault rating (250°C)	kA (1s)	27.8	37.0	46.3	58.3	74.0	92.5
Earth fault rating (150°C)	kA (1s)	38.3	40.0	41.3	43.2	46.2	48.8

Ratings above are based on standard laying conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

Soil temperature = 25°C

Depth of burial = 1.2m

Air temperature = 30°C

Earthing = Cross bonded or single point

bonded Tolerance on dimensions = +5%



Description: ALUMINIUM, XLPE, W/B, CSA, LLDPE, HIGH
Voltage & Specification: STRESS 51/88kV, SANS 60840 / NRS 077
Water blocking: Core is standard, conductor on request

PHYSICAL DIMENSIONS:

Conductor size	mm ^l	300	400	500	630	800	1000
Conductor diameter	mm	20.4	23.9	26.4	29.7	34.2	38.3
Diameter over s/c conductor screen	mm	24.3	27.7	30.2	33.6	38.0	42.1
Diameter over XLPE insulation	mm	48.6	51.1	53.3	57.0	61.8	66.3
Diameter over s/c core screen	mm	50.7	53.1	55.4	59.1	63.9	68.4
Diameter over CSA sheath	mm	69.6	72.3	74.7	78.5	83.5	88.1
Final diameter of cable (D)	mm	80.6	83.3	85.7	89.5	96.7	101.3
Cable mass (approximate)	kg/m	5.9	6.3	6.8	7.6	8.8	9.9
Gross mass (500 m) (approximate)	kg	4150	4350	4600	5000	5600	6150
Minimum installation bending radius	m	1.61	1.67	1.71	1.79	1.93	2.02

RATINGS:

		Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)
Current rating in ground	Amps	426	448	487	514	551	586	623	667	699	757	771	845
Current rating in air	Amps	584	668	681	786	782	909	899	1055	1025	1216	1151	1385
AC Resistance @ 90°C	Ω/km	0.1290	0.1289	0.1009	0.1006	0.0790	0.0787	0.0621	0.0616	0.0496	0.0490	0.0405	0.0350
Reactance	Ω/km	0.1465	0.2046	0.1383	0.1964	0.1338	0.1918	0.1290	0.1871	0.1251	0.1832	0.1209	0.1750
Impedance	Ω/km	0.1952	0.2418	0.1712	0.2207	0.1554	0.2074	0.1432	0.1970	0.1346	0.1896	0.1275	0.1800
Sheath standing voltage	V/km	25.3	46.1	28.7	52.7	32.2	59.8	36.0	67.6	41.0	77.4	44.7	85.9

ELECTRICAL PARAMETERS:

DC Resistance @ 20°C	Ω/km	0.100	0.0778	0.0605	0.0469	0.0367	0.0291
Max Electric stress at conductor screen	kV/mm	6.8	6.8	6.7	6.5	6.2	6.0
Min Electric stress at insulation screen	kV/mm	3.6	3.9	4.0	4.0	4.0	4.0
Capacitance	μF/km	0.1999	0.2271	0.2446	0.2621	0.2853	0.3059
Zero Sequence Resistance	Ω/km	0.1872	0.1567	0.1330	0.1132	0.0974	0.0855
Zero Sequence Reactance	Ω/km	0.0871	0.0794	0.0753	0.0712	0.0666	0.0631
Symmetrical fault rating (250°C)	kA (1s)	27.8	37.0	46.3	58.3	74.0	92.5
Earth fault rating (150°C)	kA (1s)	41.4	43.0	44.3	46.6	49.6	52.3

Ratings above are based on standard laying conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

Soil temperature = 25°C

Depth of burial = 1.2m

Air temperature = 30°C

Earthing = Cross bonded or single point

bonded Tolerance on dimensions = +5%



Description: ALUMINIUM, XLPE, W/B, CSA, LLDPE, HIGH
Voltage & Specification: STRESS 76/132kV, SANS 60840 / NRS 077
Water blocking: Core is standard, conductor on request

PHYSICAL DIMENSIONS:

Conductor size	mm	300	400	500	630	800	1000
Conductor diameter	mm	20.4	23.9	26.4	29.7	34.2	38.3
Diameter over s/c conductor screen	mm	25.1	28.3	30.4	33.8	38.2	42.3
Diameter over XLPE insulation	mm	58.4	59.8	61.8	65.7	70.8	75.4
Diameter over s/c core screen	mm	61.1	62.3	64.3	68.2	73.3	77.9
Diameter over CSA sheath	mm	80.4	81.7	83.8	87.9	93.2	98.0
Final diameter of cable (D)	mm	91.4	92.7	97.0	101.1	106.4	111.2
Cable mass (approximate)	kg/m	7.3	7.6	8.4	9.2	10.3	11.5
Gross mass (500 m) (approximate)	kg	4850	5000	5400	5800	6350	6950
Minimum installation bending radius	m	1.83	1.85	1.94	2.02	2.12	2.22

RATINGS:

		Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)
Current rating in ground	Amps	425	445	486	511	552	585	625	667	700	755	773	84
Current rating in air	Amps	578	650	673	767	778	890	894	1032	1022	1193	1150	135
AC Resistance @ 90°C	Ω/km	0.1290	0.1289	0.1008	0.1006	0.0789	0.0787	0.0619	0.0616	0.0494	0.0489	0.0403	0.03
Reactance	Ω/km	0.1544	0.2124	0.1450	0.2031	0.1416	0.1996	0.1367	0.1947	0.1311	0.1892	0.1268	0.18
Impedance	Ω/km	0.2012	0.2485	0.1766	0.2266	0.1621	0.2146	0.1500	0.2042	0.1401	0.1954	0.1330	0.18
Sheath standing voltage	V/km	24.5	45.1	27.8	51.6	32.3	59.6	36.1	67.6	39.9	75.9	43.7	84.4

ELECTRICAL PARAMETERS:

DC Resistance @ 20°C	Ω/km	0.100	0.0778	0.0605	0.0469	0.0367	0.0291
Max Electric stress at conductor screen	kV/mm	8.0	8.0	7.8	7.5	7.1	6.8
Min Electric stress at insulation screen	kV/mm	3.5	3.9	4.0	4.0	4.0	4.0
Capacitance	μF/km	0.1645	0.1859	0.1961	0.2088	0.2253	0.2402
Zero Sequence Resistance	Ω/km	0.1794	0.1503	0.1271	0.1077	0.0923	0.0808
Zero Sequence Reactance	Ω/km	0.0969	0.0877	0.0831	0.0788	0.0740	0.0702
Symmetrical fault rating (250°C)	kA (1s)	27.8	37.0	46.3	58.3	74.0	92.5
Earth fault rating (150°C)	kA (1s)	47.8	48.5	49.7	52.2	55.3	58.2

Ratings above are based on standard laying conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

Soil temperature = 25°C

Depth of burial = 1.2m

Air temperature = 30°C

Earthing = Cross bonded or single point

bonded Tolerance on dimensions = +5%



XLPE
W/B, CSA, PE

F2KC... Primary group code
...068 Finish code

Copper I Core
24000/42000V
AFCAB SPEC

Single Point/Cross Bonded Cable Systems

Size Code	..naaa...	1300	1400	1500	1630	1800	1999
Physical Dimensions:							
Conductor Size	mm ² nom	300	400	500	630	800	1000
Conductor Diameter	mm app.	21.5	24.0	27.5	30.5	34.1	39.0
Insulation Diameter	mm app.	43.5	45.5	49.0	51.5	55.0	60.0
Outer S/C Screen Diameter	mm app.	45.0	47.0	50.5	53.0	56.5	61.5
CSA Diameter	mm app.	62.0	64.5	68.0	71.0	74.5	80.0
Cable Diameter (D)	mm app.	68.0	70.5	74.0	77.5	81.0	87.0
Cable Mass	kg/m app.	5.9	6.8	8.0	9.5	11.3	13.7
Gross Mass (500 m)	kg app.	3934	4378	4981	5726	6624	7839
Current Ratings:							
Flat Formation @ (2xD)							
In ground	Amps	576	655	743	838	936	1026
In air	Amps	884	1028	1190	1368	1562	1758
Trefoil Formation							
In ground	Amps	544	615	690	768	844	905
In air	Amps	757	871	997	1130	1267	1392
Electrical Parameters:							
AC Resistance @ 90°C	Ω/km max	0.078	0.061	0.049	0.038	0.031	0.026
Capacitance	μF/km	0.270	0.299	0.334	0.365	0.403	0.453
Reactance (Flat)	Ω/km	0.175	0.169	0.180	0.177	0.172	0.168
Impedance (Flat)	Ω/km	0.192	0.180	0.187	0.181	0.175	0.170
Reactance (Trefoil)	Ω/km	0.117	0.111	0.122	0.162	0.114	0.110
Impedance (Trefoil)	Ω/km	0.141	0.127	0.132	0.167	0.119	0.113
Zero Sequences:							
Resistance	Ω/km	0.169	0.149	0.132	0.118	0.107	0.089
Reactance	Ω/km	0.061	0.056	0.067	0.063	0.059	0.056
Short Circuit Ratings:							
Symmetrical	kA (1sec)	43.1	57.4	71.8	90.4	114.9	143.6
Earth Fault	kA (1sec)	32.6	33.9	35.7	37.2	39.2	46.7

Physical Dimensions are nominal values.
When ordering please quote: primary + size + finish code
e.g. F2KC_1400_068



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XLPE
W/B, CSA, PE

F2LC... Primary group code
...068 Finish code

Copper 1 Core
25000/44000V
AFCAB SPEC

Single Point/Cross Bonded Cable Systems

Size Code	Units	1300	1400	1500	1630	1800	1999
Physical Dimensions:							
Conductor Size	mm ² nom	300	400	500	630	800	1000
Conductor Diameter	mm app.	21.0	24.5	27.5	30.5	34.5	39.0
Insulation Diameter	mm app.	43.0	46.0	48.5	53.0	55.0	59.0
Outer S/C Screen Diameter	mm app.	44.5	47.5	50.5	54.0	56.5	61.0
CSA Diameter	mm app.	63.5	66.5	69.5	72.0	76.0	80.5
Cable Diameter (D)	mm app.	70.5	74.0	77.0	80.0	84.0	89.0
Cable Mass	kg/m app.	6.4	7.4	8.6	10.1	11.9	14.2
Gross Mass (500 m)	kg app.	4211	4700	5283	6036	6972	8071
Current Ratings:							
Flat Formation @ (2xD)							
In ground	Amps	575	654	742	836	932	1023
In air	Amps	881	1025	1189	1366	1556	1750
Trefoil Formation							
In ground	Amps	542	611	685	762	835	899
In air	Amps	754	868	993	1123	1255	1381
Electrical Parameters:							
AC Resistance @ 90°C	Ω/km max	0.078	0.061	0.049	0.039	0.031	0.026
Capacitance	μF/km	0.231	0.262	0.294	0.322	0.357	0.400
Reactance (Flat)	Ω/km	0.178	0.172	0.182	0.178	0.174	0.170
Impedance (Flat)	Ω/km	0.195	0.183	0.189	0.182	0.177	0.172
Reactance (Trefoil)	Ω/km	0.120	0.113	0.124	0.120	0.116	0.112
Impedance (Trefoil)	Ω/km	0.143	0.129	0.134	0.127	0.120	0.115
Zero Sequence:							
Resistance	Ω/km	0.142	0.123	0.107	0.095	0.085	0.076
Reactance	Ω/km	0.063	0.057	0.068	0.064	0.060	0.056
Short Circuit Ratings:							
Symmetrical	kA (1sec)	43.1	57.4	71.8	90.4	114.9	143.6
Earth Fault	kA (1sec)	46.2	48.4	50.6	52.6	55.5	58.7

Physical Dimensions are nominal values.
When ordering please quote: primary + size + finish code
e.g. F2LC_1400_068



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XLPE
W/B, CSA, PE

F2MC... Primary group code
...068 Finish code

Copper I Core
38000/66000V
AFCAB SPEC

Single Point/Cross Bonded Cable Systems

Size Code	Units	1300	1400	1500	1630	1800	1999
Physical Dimensions:							
Conductor Size	mm ² nom	300	400	500	630	800	1000
Conductor Diameter	mm app.	21.0	24.0	27.5	30.5	34.5	39.0
Insulation Diameter	mm app.	49.5	51.5	54.0	56.5	60.5	65.5
Outer S/C Screen Diameter	mm app.	51.5	53.5	56.0	58.5	62.5	67.5
CSA Diameter	mm app.	70.5	73.0	75.5	78.0	82.0	87.0
Cable Diameter (D)	mm app.	78.5	81.0	83.5	86.0	90.5	96.0
Cable Mass	kg/m app.	7.3	8.2	9.4	10.9	12.8	15.2
Gross Mass (500 m)	kg app.	4654	5108	5684	6424	7409	8578

Current Ratings:							
Flat Formation @ (2xD)							
In ground	Amps	574	653	740	834	930	1021
In air	Amps	862	1005	1166	1341	1525	1711
Trefoil Formation							
In ground	Amps	541	610	684	761	835	900
In air	Amps	748	862	986	1116	1249	1374

Electrical Parameters:								
AC Resistance	@ 90°C	Ω/km max	0.078	0.061	0.049	0.039	0.031	0.026
Capacitance		μF/km	0.194	0.219	0.245	0.269	0.291	0.315
Reactance (Flat)		Ω/km	0.185	0.178	0.188	0.183	0.179	0.175
Impedance (Flat)		Ω/km	0.200	0.188	0.194	0.187	0.182	0.177
Reactance (Trefoil)		Ω/km	0.127	0.120	0.129	0.125	0.121	0.117
Impedance (Trefoil)		Ω/km	0.149	0.135	0.138	0.131	0.125	0.120
Zero Sequence:								
Resistance		Ω/km	0.136	0.117	0.102	0.091	0.081	0.072
Reactance		Ω/km	0.070	0.063	0.073	0.069	0.065	0.061
Short Circuit Ratings:								
Symmetrical		kA (1sec)	43.1	57.4	71.8	90.4	114.9	143.6
Earth Fault		kA (1sec)	51.4	53.2	55.1	57.0	60.0	63.8

Physical Dimensions are nominal values.
When ordering please quote: primary + size + finish code
e.g. F2MC_1400_068



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XLPE
W/B, CSA, PE

F2NC... Primary group code
...068 Finish code

Copper I Core
51000/88000V
AFCAB SPEC

Single Point/Cross Bonded Cable Systems

Size Code	Units	1300	1400	1500	1630	1800	1999
Physical Dimensions:							
Conductor Size	mm ² nom	300	400	500	630	800	1000
Conductor Diameter	mm app.	21.0	24.5	27.5	30.5	34.5	39.0
Insulation Diameter	mm app.	56.0	58.0	60.0	62.5	67.0	72.0
Outer S/C Screen Diameter	mm app.	59.0	60.5	63.0	65.5	69.5	74.5
CSA Diameter	mm app.	78.0	80.0	82.5	85.0	89.5	94.5
Cable Diameter (D)	mm app.	86.5	88.0	91.0	93.5	98.5	104.0
Cable Mass	kg/m app.	8.34	9.2	10.4	11.9	14.0	16.4
Gross Mass (500 m)	kg app.	5270	5592	6289	7043	7971	9162
Current Ratings:							
Flat Formation @ (2xD)							
In ground	Amps	572	651	738	832	928	1019
In air	Amps	845	986	1143	1314	1494	1676
Trefoil Formation							
In ground	Amps	540	609	684	761	835	901
In air	Amps	742	855	979	1109	1240	1367
Electrical Parameters:							
AC Resistance @ 90°C	Ω/km max	0.078	0.061	0.049	0.039	0.031	0.026
Capacitance	μF/km	0.1689	0.1912	0.214	0.232	0.248	0.267
Reactance (Flat)	Ω/km	0.1911	0.1831	0.193	0.188	0.184	0.180
Impedance (Flat)	Ω/km	0.2063	0.1931	0.199	0.192	0.187	0.181
Reactance (Trefoil)	Ω/km	0.1330	0.1251	0.135	0.130	0.126	0.121
Impedance (Trefoil)	Ω/km	0.1542	0.139	0.144	0.136	0.130	0.124
Zero Sequence:							
Resistance	Ω/km	0.1298	0.112	0.098	0.086	0.076	0.069
Reactance	Ω/km	0.0771	0.069	0.079	0.075	0.071	0.067
Short Circuit Ratings:							
Symmetrical	kA (1sec)	43.1	57.4	71.8	90.4	114.9	143.6
Earth Fault	kA (1sec)	57.2	58.5	60.1	62.2	65.4	69.2

Physical Dimensions are nominal values.
When ordering please quote: primary + size + finish code
e.g. F2NC_1400_068



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XLPE
W/B, CSA, PE

F2PC... Primary group code
...068 Finish code

Copper I Core
76000/132000V
AFCAB SPEC

Single Point /Cross Bonded Cable Systems

Size Code	Units	I 300	I 400	I 500	I 630	I 800	I 999
Physical Dimensions:							
Conductor size	mm ² nom	300	400	500	630	800	1000
Conductor Diameter	mm app.	21.0	24.5	27.5	30.5	34.5	39.0
Insulation Diameter	mm app.	70.5	70.0	71.0	73.5	78.0	83.5
Outer S/C Screen Diameter	mm app.	74.0	73.5	74.5	76.5	81.0	86.6
CSA Diameter	mm app.	94.0	93.5	94.5	96.5	101.5	107.0
Cable Diameter (D)	mm app.	103.0	102.5	103.0	106.5	111.5	117.5
Cable Mass	kg/m app.	10.74	11.25	12.23	13.78	15.99	18.56
Gross Mass (500 m)	kg app.	6360	6619	7109	7883	8987	10274
Current Ratings:							
Flat Formation @ (2xD)							
In ground	Amps	570	648	735	829	925	1017
In air	Amps	817	956	1110	1276	1450	1626
Trefoil Formation							
In ground	Amps	539	608	683	761	836	904
In air	Amps	731	844	967	1096	1228	1354
Electrical Parameters:							
AC Resistance @ 90°C	Ω/km max	0.078	0.062	0.049	0.039	0.032	0.026
Capacitance	μF/km	0.143	0.158	0.176	0.187	0.199	0.212
Reactance (Flat)	Ω/km	0.202	0.193	0.201	0.196	0.192	0.187
Impedance (Flat)	Ω/km	0.217	0.202	0.207	0.200	0.194	0.189
Reactance (Trefoil)	Ω/km	0.144	0.135	0.143	0.138	0.134	0.129
Impedance (Trefoil)	Ω/km	0.164	0.148	0.151	0.144	0.137	0.132
Zero Sequence:							
Resistance	Ω/km	0.121	0.105	0.092	0.080	0.071	0.064
Reactance	Ω/km	0.090	0.080	0.088	0.084	0.079	0.075
Short Circuit Ratings:							
Symmetrical	kA (Isec)	43.1	57.4	71.8	90.4	114.9	143.6
Earth Fault	kA (Isec)	68.7	68.2	69.0	70.7	74.2	78.2

Physical dimensions are nominal values.
When ordering please quote: primary + size + finish code
e.g. F2PC_I400_068



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

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Description: Copper Milliken conductor, XLPE, W/B, CSA, LLDPE,
Voltage & Specification: HS 25.4/44kV, SANS IEC 60840/ NRS 077
Water blocking: Core is standard, conductor on request

PHYSICAL DIMENSIONS:

Conductor size (Milliken construction)	mm	1200	1600	2000	2500
Conductor diameter	mm	43	51	56	63
Diameter over s/c conductor screen	mm	48	55	61	68
Diameter over XLPE insulation	mm	61	69	75	82
Diameter over s/c core screen	mm	64	72	78	85
Diameter over CSA metallic sheath	mm	87	95	101	107
Final diameter of cable (D)	mm	100	108	114	120
Cable mass (approximate)	kg/m	17.2	21.6	25.8	31.3
Gross mass (500 m) (approximate)	kg	10100	12300	14400	17150
Minimum installation bending radius	m	3.0	3.2	3.4	3.6

RATINGS:		Trefoil		Flat (2D)		Trefoil		Flat (2D)	
		Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)
Current rating in ground @ 90°C	Amps	1014	1143	1108	1278	1171	1378	1224	1472
Current rating in air @ 90°C	Amps	1574	1969	1772	2275	1911	2501	2040	2736
AC Resistance @ 90°C	Ω/km	0.0214	0.0212	0.0172	0.0169	0.0147	0.0144	0.0129	0.0125
Reactance	Ω/km	0.1123	0.1704	0.1071	0.1652	0.1045	0.1625	0.1006	0.1587
Impedance	Ω/km	0.1143	0.1717	0.1085	0.1660	0.1055	0.1632	0.1014	0.1592
Sheath standing voltage	V/km	58.8	116.0	63.1	128.4	65.7	137.4	68.0	145.8

ELECTRICAL PARAMETERS:

DC Resistance @ 20°C	Ω/km	0.0151	0.0113	0.0090	0.0072
Max Electric stress at conductor screen	kV/mm	8	8	8	8
Max Electric stress at insulation screen	kV/mm	4	4	4	4
Capacitance	μF/km	0.55	0.62	0.68	0.74
Zero Sequence Resistance	Ω/km	0.0679	0.0598	0.0544	0.0503
Zero Sequence Reactance	Ω/km	0.0543	0.0501	0.0483	0.0450
Symmetrical fault rating (@ 250°C limit)	kA (1s)	172.3	229.7	287.1	358.9
Earth fault rating (@ 150°C limit)	kA (1s)	51.7	56.1	60.1	63.6

Ratings above are based on standard soil conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

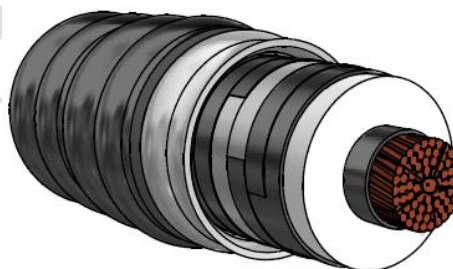
Soil temperature = 25°C

Depth of burial = 1.2m

Air temperature = 30°C

Earthing: Cross bonded or single point

bonded Tolerance on dimensions = +5%



Description: Copper Milliken conductor, XLPE, W/B, CSA, LLDPE,
Voltage & Specification: HS 38.1/66kV, SANS IEC 60840/ NRS 077
Water blocking: Core is standard, conductor on request

PHYSICAL DIMENSIONS:

Conductor size (Milliken construction)	mm	1200	1600	2000	2500
Conductor diameter	mm	43	51	56	63
Diameter over s/c conductor screen	mm	48	55	61	68
Diameter over XLPE insulation	mm	67	74	81	87
Diameter over s/c core screen	mm	70	77	84	90
Diameter over CSA metallic sheath	mm	93	100	107	113
Final diameter of cable (D)	mm	106	113	120	126
Cable mass (approximate)	kg/m	18.0	22.5	26.8	32.3
Gross mass (500 m) (approximate)	kg	10500	12750	14900	17650
Minimum installation bending radius	m	3.2	3.4	3.6	3.8

RATINGS:		Trefoil		Flat (2D)		Trefoil		Flat (2D)	
Current rating in ground @ 90°C	Amps	1011	1139	1105	1274	1169	1375	1223	1469
Current rating in air @ 90°C	Amps	1563	1934	1761	2235	1901	2458	2032	2691
AC Resistance @ 90°C	Ω/km	0.0214	0.0212	0.0171	0.0169	0.0147	0.0144	0.0129	0.0125
Reactance	Ω/km	0.1157	0.1738	0.1103	0.1684	0.1076	0.1657	0.1036	0.1617
Impedance	Ω/km	0.1177	0.1751	0.1116	0.1692	0.1086	0.1663	0.1044	0.1621
Sheath standing voltage	V/km	57.8	114.7	62.2	127.2	64.9	136.2	67.3	144.8

ELECTRICAL PARAMETERS:

DC Resistance @ 20°C	Ω/km	0.0151	0.0113	0.0090	0.0072
Max Electric stress at conductor screen	kV/mm	8	8	8	8
Max Electric stress at insulation screen	kV/mm	4	4	4	4
Capacitance	μF/km	0.4	0.5	0.5	0.55
Zero Sequence Resistance	Ω/km	0.0650	0.0574	0.0522	0.0483
Zero Sequence Reactance	Ω/km	0.0585	0.0540	0.0520	0.0486
Symmetrical fault rating (@ 250°C limit)	kA (1s)	172.3	229.7	287.1	358.9
Earth fault rating (@ 150°C limit)	kA (1s)	55.0	59.5	63.6	67.1

Ratings above are based on standard soil conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

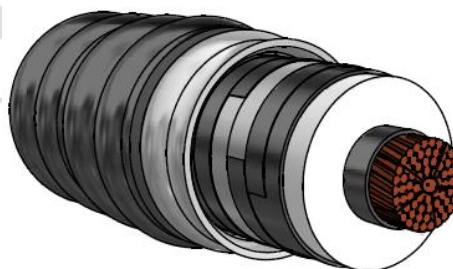
Soil temperature = 25°C

Depth of burial = 1.2m

Air temperature = 30°C

Earthing: Cross bonded or single point

bonded Tolerance on dimensions = +5%



Description: Copper Milliken conductor, XLPE, W/B, CSA, LLDPE,
Voltage & Specification: HS 50.8/88kV, SANS IEC 60840/ NRS 077
Water blocking: Core is standard, conductor on request

PHYSICAL DIMENSIONS:

Conductor size (Milliken construction)	mm	1200	1600	2000	2500
Conductor diameter	mm	43.4	50.7	56.1	62.8
Diameter over s/c conductor screen	mm	47.6	54.9	61.1	67.6
Diameter over XLPE insulation	mm	72.0	79.4	86.3	92.9
Diameter over s/c core screen	mm	75.0	82.3	89.2	95.8
Diameter over CSA metallic sheath	mm	98.2	105.8	112.9	120.2
Final diameter of cable (D)	mm	111	119	126	133
Cable mass (approximate)	kg/m	18.9	23.4	27.8	33.6
Gross mass (500 m) (approximate)	kg	10950	13200	15400	18300
Minimum installation bending radius	m	3.3	3.6	3.8	4.0

RATINGS:		Trefoil		Flat (2D)		Trefoil		Flat (2D)	
		Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)
Current rating in ground @ 90°C	Amps	1008	1136	1103	1271	1168	1372	1227	1470
Current rating in air @ 90°C	Amps	1553	1903	1751	2200	1891	2420	2025	2650
AC Resistance @ 90°C	Ω/km	0.0214	0.0212	0.0171	0.0169	0.0147	0.0144	0.0128	0.0125
Reactance	Ω/km	0.1190	0.1771	0.1134	0.1714	0.1106	0.1687	0.1071	0.1652
Impedance	Ω/km	0.1209	0.1783	0.1147	0.1723	0.1116	0.1693	0.1078	0.1656
Sheath standing voltage	V/km	57.0	113.6	61.4	126.1	64.2	135.2	67.2	144.5

ELECTRICAL PARAMETERS:

DC Resistance @ 20°C	Ω/km	0.0151	0.0113	0.0090	0.0072
Max Electric stress at conductor screen	kV/mm	8	8	8	8
Max Electric stress at insulation screen	kV/mm	4	4	4	4
Capacitance	μF/km	0.34	0.38	0.40	0.44
Zero Sequence Resistance	Ω/km	0.0625	0.0552	0.0503	0.0461
Zero Sequence Reactance	Ω/km	0.0625	0.0577	0.0556	0.0523
Symmetrical fault rating (@ 250°C limit)	kA (1s)	172.3	229.7	287.1	358.9
Earth fault rating (@ 150°C limit)	kA (1s)	58.3	62.9	67.1	71.4

Ratings above are based on standard soil conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

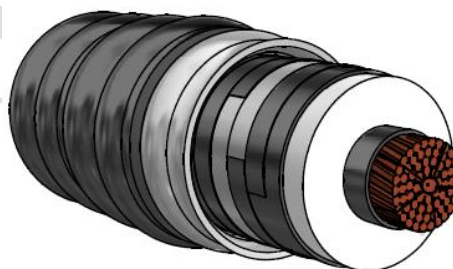
Soil temperature = 25°C

Depth of burial = 1.2m

Air temperature = 30°C

Earthing: Cross bonded or single point

bonded Tolerance on dimensions = +5%



Description: Copper Milliken conductor, XLPE, W/B, CSA, LLDPE,
Voltage & Specification: HS 76/132kV, SANS IEC 60840/ NRS 077
Water blocking: Core is standard, conductor on request

PHYSICAL DIMENSIONS:

Conductor size (Milliken construction)	mm	1200	1600	2000	2500
Conductor diameter	mm	43	51	56	63
Diameter over s/c conductor screen	mm	48	55	61	68
Diameter over XLPE insulation	mm	82	90	96	103
Diameter over s/c core screen	mm	85	93	99	106
Diameter over CSA metallic sheath	mm	108	118	125	130
Final diameter of cable (D)	mm	122	131	138	143
Cable mass (approximate)	kg/m	20.6	25.5	30.0	34.8
Gross mass (500 m) (approximate)	kg	11600	14100	16700	19100
Minimum installation bending radius	m	3.6	3.9	4.1	4.3

RATINGS:		Trefoil		Flat (2D)		Trefoil		Flat (2D)	
		Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)
Current rating in ground @ 90°C	Amps	1005	1130	1103	1268	1171	1371	1226	1464
Current rating in air @ 90°C	Amps	1536	1855	1734	2142	1878	2362	2012	2588
AC Resistance @ 90°C	Ω/km	0.0213	0.0212	0.0171	0.0169	0.0146	0.0144	0.0128	0.0125
Reactance	Ω/km	0.1245	0.1826	0.1195	0.1775	0.1163	0.1744	0.1115	0.1696
Impedance	Ω/km	0.1263	0.1838	0.1207	0.1783	0.1173	0.1750	0.1123	0.1701
Sheath standing voltage	V/km	55.7	111.8	60.7	124.9	63.0	134.4	66.1	143

ELECTRICAL PARAMETERS:

DC Resistance @ 20°C	Ω/km	0.0151	0.0113	0.0090	0.0072
Max Electric stress at conductor screen	kV/mm	8	8	8	8
Max Electric stress at insulation screen	kV/mm	4	4.0	4.0	4.0
Capacitance	μF/km	0.26	0.28	0.31	0.33
Zero Sequence Resistance	Ω/km	0.0586	0.0512	0.0468	0.0436
Zero Sequence Reactance	Ω/km	0.0690	0.0645	0.0618	0.0577
Symmetrical fault rating (@ 250°C limit)	kA (1s)	172.3	230	287	359
Earth fault rating (@ 150°C limit)	kA (1s)	64.4	70.1	74.3	77.2

Ratings above are based on standard soil conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

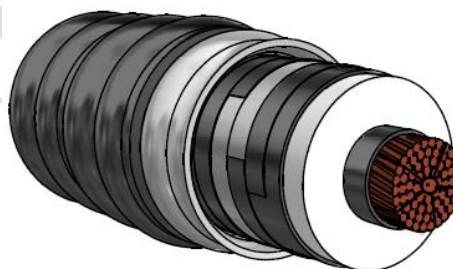
Soil temperature = 25°C

Depth of burial = 1.2m

Air temperature = 30°C

Earthing: Cross bonded or single point

bonded Tolerance on dimensions = +5%



Description:

COPPER, XLPE, W/B, CSA, LLDPE, HIGH

Voltage & Specification:

STRESS 25.4/44kV, SANS 60840/ NRS 077

Water blocking:

Core is standard, conductor on request

PHYSICAL DIMENSIONS:

Conductor size	mm ^l	300	400	500	630	800	1000
Conductor diameter	mm	20.7	24.0	27.2	30.4	34.2	38.7
Diameter over s/c conductor screen	mm	24.1	27.4	30.6	33.8	37.6	42.1
Diameter over XLPE insulation	mm	39.9	42.8	45.7	48.7	52.3	56.6
Diameter over s/c core screen	mm	41.3	44.4	47.3	50.3	54.1	58.5
Diameter over CSA sheath	mm	59.8	63.0	66.2	69.3	73.3	77.8
Final diameter of cable (D)	mm	70.8	74.0	77.2	80.3	84.3	88.8
Cable mass (approximate)	kg/m	6.6	7.6	8.8	10.4	12.3	14.6
Gross mass (500 m) (approximate)	kg	4500	5005	5620	6395	7365	8480
Minimum installation bending radius	m	1.4	1.5	1.5	1.6	1.7	1.8

RATINGS:

		Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)
Current rating in ground	Amps	542	575	613	654	688	741	766	836	840	932	904	102
Current rating in air	Amps	751	882	865	1027	989	1189	1121	1368	1254	1558	1380	175
AC Resistance @ 90°C	Ω/km	0.0781	0.0778	0.0619	0.0614	0.0492	0.0486	0.0394	0.0385	0.0323	0.0312	0.0275	0.02
Reactance	Ω/km	0.1373	0.1954	0.1307	0.1887	0.1253	0.1833	0.1206	0.1787	0.1163	0.1743	0.1117	0.16
Impedance	Ω/km	0.1580	0.2103	0.1446	0.1985	0.1346	0.1897	0.1269	0.1828	0.1207	0.1771	0.1150	0.17
Sheath standing voltage	V/km	33.4	60.5	37.3	68.3	41.3	76.8	45.5	86.1	49.3	95.3	52.4	103.8

ELECTRICAL PARAMETERS:

DC Resistance @ 20°C	Ω/km	0.060	0.047	0.037	0.028	0.022	0.018
Max Electric stress at conductor screen	kV/mm	5.0	5.0	5.0	5.0	5.0	5.0
Min Electric stress at insulation screen	kV/mm	3.2	3.4	3.5	3.7	3.8	3.9
Capacitance	μF/km	0.2755	0.3113	0.3461	0.3804	0.4212	0.4700
Zero Sequence Resistance	Ω/km	0.1456	0.1257	0.1097	0.0968	0.0862	0.0778
Zero Sequence Reactance	Ω/km	0.0757	0.0698	0.0651	0.0611	0.0575	0.0538
Symmetrical fault rating (250°C)	kA (1s)	43.1	57.4	71.8	90.4	114.9	143.6
Earth fault rating (150°C)	kA (1s)	35.5	37.4	39.3	41.2	43.6	46.2

Ratings above are based on standard laying conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

Soil temperature = 25°C

Depth of burial = 1.2m

Air temperature = 30°C

Earthing = Cross bonded or single point

bonded Tolerance on dimensions = +5%



Description: COPPER, XLPE, W/B, CSA, LLDPE, HIGH
Voltage & Specification: STRESS 38.1/66kV, SANS 60840/ NRS 077
Water blocking: Core is standard, conductor on request

PHYSICAL DIMENSIONS:

Conductor size	mm ^l	300	400	500	630	800	1000
Conductor diameter	mm	20.7	24.0	27.2	30.4	34.2	38.7
Diameter over s/c conductor screen	mm	24.3	27.6	30.8	34.0	37.8	42.3
Diameter over XLPE insulation	mm	44.4	47.1	49.8	52.9	56.9	61.7
Diameter over s/c core screen	mm	46.2	48.8	51.4	54.6	58.8	63.7
Diameter over CSA sheath	mm	65.1	67.7	70.5	73.8	78.1	83.3
Final diameter of cable (D)	mm	75.1	78.7	81.7	84.9	89.3	96.5
Cable mass (approximate)	kg/m	7.1	8.0	9.2	10.8	12.8	15.5
Gross mass (500 m) (approximate)	kg	4745	5225	5825	6620	7620	8930
Minimum installation bending radius	m	1.5	1.6	1.6	1.7	1.8	1.9

RATINGS:

		Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)
Current rating in ground	Amps	540	573	610	652	685	739	762	833	836	929	904	102
Current rating in air	Amps	744	867	858	1010	991	1179	1122	1354	1256	1541	1381	172
AC Resistance @ 90°C	Ω/km	0.0780	0.0778	0.0618	0.0614	0.0491	0.0486	0.0393	0.0385	0.0322	0.0312	0.0272	4.02
Reactance	Ω/km	0.1410	0.1991	0.1337	0.1917	0.1279	0.1860	0.1233	0.1814	0.1190	0.1771	0.1161	0.17
Impedance	Ω/km	0.1612	0.2138	0.1473	0.2013	0.1370	0.1922	0.1294	0.1854	0.1233	0.1798	0.1192	41.0.17
Sheath standing voltage	V/km	32.2	59.1	36.0	66.8	40.0	75.4	44.1	84.5	47.7	93.5	52.2	103.5

ELECTRICAL PARAMETERS:

DC Resistance @ 20°C	Ω/km	0.060	0.047	0.037	0.028	0.022	0.018
Max Electric stress at conductor screen	kV/mm	6.0	6.0	6.0	5.9	5.7	5.6
Min Electric stress at insulation screen	kV/mm	3.5	3.7	3.9	4.0	4.0	4.0
Capacitance	μF/km	0.2301	0.2601	0.2891	0.3143	0.3393	0.3691
Zero Sequence Resistance	Ω/km	0.1401	0.1213	0.1060	0.0932	0.0828	0.0745
Zero Sequence Reactance	Ω/km	0.0814	0.0747	0.0694	0.0654	0.0619	0.0583
Symmetrical fault rating (250°C)	kA (1s)	43.1	57.4	71.8	90.4	114.9	143.6
Earth fault rating (150°C)	kA (1s)	38.6	40.2	41.9	43.9	46.4	49.4

Ratings above are based on standard laying conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

Soil temperature = 25°C

Depth of burial = 1.2m

Air temperature = 30°C

Earthing = Cross bonded or single point

bonded Tolerance on dimensions = +5%



Description: COPPER, XLPE, W/B, CSA, LLDPE, HIGH
Voltage & Specification: STRESS 51/88kV, SANS 60840/ NRS 077
Water blocking: Core is standard, conductor on request

PHYSICAL DIMENSIONS:							
Conductor size	mm ^l	300	400	500	630	800	1000
Conductor diameter	mm	20.7	24.0	27.2	30.4	34.2	38.7
Diameter over s/c conductor screen	mm	24.5	27.8	31.0	34.2	38.1	42.7
Diameter over XLPE insulation	mm	48.8	51.1	54.2	57.7	61.9	66.8
Diameter over s/c core screen	mm	50.8	53.2	56.3	59.8	64.0	68.9
Diameter over CSA sheath	mm	69.8	72.4	75.6	79.2	83.6	87.7
Final diameter of cable (D)	mm	80.8	83.4	86.6	90.2	96.8	101.9
Cable mass (approximate)	kg/m	7.8	8.8	10.1	11.7	14.1	16.5
Gross mass (500 m) (approximate)	kg	5100	5600	6250	7050	8250	9450
Minimum installation bending radius	m	1.62	1.67	1.73	1.80	1.94	2.04

RATINGS:		Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)
Current rating in ground	Amps	542	574	612	654	687	741	765	836	847	937	919	1030
Current rating in air	Amps	747	860	861	1003	983	1159	1116	1332	1260	1524	1400	1720
AC Resistance @ 90°C	Ω/km	0.0778	0.0778	0.0617	0.0614	0.0490	0.0485	0.0391	0.0385	0.0320	0.0311	0.0270	0.0200
Reactance	Ω/km	0.1454	0.2035	0.1381	0.1962	0.1326	0.1906	0.1282	0.1862	0.1252	0.1832	0.1205	0.1700
Impedance	Ω/km	0.1650	0.2179	0.1513	0.2055	0.1413	0.1967	0.1340	0.1902	0.1292	0.1859	0.1235	0.1800
Sheath standing voltage	V/km	32.2	59.1	36.1	66.9	40.1	75.4	44.2	84.6	49.5	95.6	53.8	105.3

ELECTRICAL PARAMETERS:							
DC Resistance @ 20°C	Ω/km	0.0601	0.0470	0.0366	0.0283	0.0221	0.0176
Max Electric stress at conductor screen	kV/mm	6.8	6.8	6.7	6.4	6.2	6.0
Min Electric stress at insulation screen	kV/mm	3.6	3.9	4.0	4.0	4.0	4.0
Capacitance	μF/km	0.2019	0.2281	0.2485	0.2655	0.2858	0.3091
Zero Sequence Resistance	Ω/km	0.1359	0.1174	0.1021	0.0895	0.0794	0.0725
Zero Sequence Reactance	Ω/km	0.0861	0.0792	0.0742	0.0704	0.0667	0.0620
Symmetrical fault rating (250°C)	kA (1s)	43.1	57.4	71.8	90.4	114.8	143.5
Earth fault rating (150°C)	kA (1s)	41.5	43.0	44.9	47.1	49.7	51.5

Ratings above are based on standard laying conditions for a single circuit in isolation as follows:

- Soil thermal resistance = 1.2Km/W
- Soil temperature = 25°C
- Depth of burial = 1.2m
- Air temperature = 30°C
- Earthing = Cross bonded or single point
- bonded Tolerance on dimensions = +5%



Description: COPPER, XLPE, W/B, CSA, LLDPE, HIGH
Voltage & Specification: STRESS 76/132kV, SANS 60840/ NRS 077
Water blocking: Core is standard, conductor on request

PHYSICAL DIMENSIONS:

Conductor size	mm ^l	300	400	500	630	800	1000
Conductor diameter	mm	20.7	24.0	27.2	30.4	34.2	38.7
Diameter over s/c conductor screen	mm	25.5	28.6	31.8	35.0	38.8	43.4
Diameter over XLPE insulation	mm	58.6	60.1	63.4	67.0	71.4	76.5
Diameter over s/c core screen	mm	61.3	62.7	66.1	69.8	74.3	79.4
Diameter over CSA sheath	mm	80.9	82.3	85.8	89.6	94.3	99.7
Final diameter of cable (D)	mm	94.1	95.5	99.0	102.8	107.5	112.9
Cable mass (approximate)	kg/m	9.6	10.4	11.8	13.6	15.7	18.3
Gross mass (500 m) (approximate)	kg	6000	6700	7100	8000	9050	10350
Minimum installation bending radius	m	1.88	1.91	1.98	2.06	2.15	2.26

RATINGS:

		Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)
Current rating in ground	Amps	543	573	614	653	690	740	769	835	845	932	914	102
Current rating in air	Amps	743	841	857	981	980	1133	1112	1301	1247	1480	1373	165
AC Resistance @ 90°C	Ω/km	0.0779	0.0777	0.0616	0.0614	0.0489	0.0485	0.0389	0.0384	0.0318	0.0311	0.0268	0.02
Reactance	Ω/km	0.1550	0.2130	0.1466	0.2047	0.1410	0.1991	0.1364	0.1944	0.1318	0.1898	0.1270	0.18
Impedance	Ω/km	0.1734	0.2268	0.1590	0.2137	0.1492	0.2049	0.1418	0.1982	0.1355	0.1924	0.1297	0.18
Sheath standing voltage	V/km	31.9	58.7	36.0	66.7	40.1	75.2	44.3	84.4	48.2	93.6	51.9	102.

ELECTRICAL PARAMETERS:

DC Resistance @ 20°C	Ω/km	0.0601	0.0470	0.0366	0.0283	0.0221	0.0176
Max Electric stress at conductor screen	kV/mm	8.0	8.0	7.7	7.4	7.1	6.8
Min Electric stress at insulation screen	kV/mm	3.5	3.9	4.0	4.0	4.0	4.0
Capacitance	μF/km	0.1671	0.1871	0.2016	0.2140	0.2280	0.2448
Zero Sequence Resistance	Ω/km	0.1279	0.1106	0.0957	0.0836	0.0739	0.0664
Zero Sequence Reactance	Ω/km	0.0961	0.0879	0.0828	0.0788	0.0748	0.0701
Symmetrical fault rating (250°C)	kA (1s)	43.1	57.4	71.8	90.4	114.8	143.5
Earth fault rating (150°C)	kA (1s)	48.1	48.9	50.9	53.2	56.0	59.1

Ratings above are based on standard laying conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

Soil temperature = 25°C

Depth of burial = 1.2m

Air temperature = 30°C

Earthing = Cross bonded or single point

bonded Tolerance on dimensions = +5%



LV ABC
 XLPE
 SELF SUPPORT

F7CA... Primary group code
 ...SA0 Finish code

Aluminium I core
 600/1000V
 ABC
 SANS 1418

Size code	...naaa...	2016	2025	2035	2050	2070	2095	2120	2150
Conductor size	mm ² nom	16	25	35	50	70	95	120	150
Conductor diameter	mm app.	5.0	6.2	7.0	8.2	9.8	11.6	13.5	14.4
Core diameter	mm app.	7.5	9.2	10.3	11.5	13.6	15.4	17.3	18.2
Cable mass	kg/m app.	0.06	0.10	0.13	0.17	0.24	0.32	0.39	0.47
Gross mass (500 m)	kg app.	160	194	228	288	359	472	557	788
Design Load (UTS/2.5)	kN max	1.66	2.64	3.60	4.96	7.12	9.84	12.48	15.36
Current rating									
In air	Amps	87	111	138	168	213	258	300	339
Resistance									
dc @ 20°C	Ω/km max	1.910	1.200	0.868	0.641	0.443	0.320	0.253	0.206
ac @ 90°C	Ω/km max	2.372	1.539	1.113	0.822	0.568	0.411	0.325	0.265
Reactance									
Impedance	Ω/km	0.091	0.090	0.090	0.084	0.083	0.080	0.078	0.077
Short Circuit rating									
(Single Phase)Volt Drop	kA (Isec) mV/A/m	1.4 4.75	2.2 3.08	3.0 2.23	4.1 1.65	5.9 1.15	8.2 0.84	10.3 0.67	12.7 0.55

When ordering please quote: primary + size + finish code
 e.g. F7CA 2016SA0



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

A member of the REUNERT Group



Low Voltage ABC Cables

LV ABC

XLPE

SANS SUPPORT

F7CA... Primary group code

...SD0 Finish code

Aluminium 2 core + Support

600/1000V

ABC

SANS 1418

Size code	...naaa...	2016	2025	2035	2050	2070	2095	2120	2150
Conductor size	mm ² nom	16	25	35	50	70	95	120	150
Conductor diameter	mm app.	5.0	6.2	7.0	8.2	9.8	11.6	13.5	14.4
Core diameter	mm app.	7.5	9.2	10.3	11.5	13.6	15.4	17.3	18.2
Assembled diameter	mm app.	28.5	31.5	34.0	36.0	40.5	44.0	48.0	49.5
Support Core size	mm ² nom	54.6	54.6	54.6	54.6	54.6	54.6	70	70
Cable mass	kg/m app.	0.33	0.40	0.47	0.54	0.69	0.84	0.99	1.14
Gross mass (500 m)	kg app.	262	296	331	390	461	516	815	890
Design Load (UTS/2.5)	kN max	6.6	6.6	6.6	6.6	6.6	6.6	8.0	8.0
Current rating									
In air	Amps	87	111	138	168	213	258	300	339
Resistance									
dc @ 20°C	Ω/km max	1.91	1.200	0.868	0.641	0.443	0.320	0.253	0.206
ac @ 90°C	Ω/km max	2.372	1.539	1.113	0.822	0.568	0.411	0.325	0.265
Reactance	Ω/km	0.091	0.090	0.090	0.084	0.083	0.080	0.078	0.077
Impedance	Ω/km	2.374	1.541	1.117	0.826	0.574	0.419	0.334	0.276
Short Circuit rating	kA (1sec)	1.4	2.2	3.0	4.1	5.9	8.2	10.3	12.7
(Single Phase) Volt Drop	mV/A/m	4.75	3.08	2.23	1.65	1.15	0.84	0.67	0.55

When ordering please quote: primary + size + finish code

e.g. F7CA 2120 SE0



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

A member of the REUNERT Group



LV ABC
XLPE
Self Support

F7CA... Primary group code
...SA0 Finish code

Aluminium 3 core + Neutral
600/1000V
ABC
SANS 1418

Size code	...naaa...	4025	4035	4050	4070	4095	4120	4150
Conductor size	mm ² nom	25	35	50	70	95	120	150
Conductor diameter	mm app.	6.2	7	8.2	9.8	11.6	13.5	14.4
Core diameter	mm app.	9.2	10.3	11.5	13.6	15.4	17.3	18.2
Assembled diameter	mm app.	22.1	24.9	27.8	32.8	37.1	41.7	43.9
Cable mass	kg/m app.	0.39	0.53	0.68	0.96	1.27	1.57	1.87
Gross mass (500 m)	kg app.	197	265	340	482	636	786	937
Design Load (UTS/2.5)								
Combined	kN max	5.3	7.2	10	14	20	25	31
Current rating								
In air	Amps	111	138	168	213	258	300	339
Resistance								
dc @ 20°C	Ω/km max	1.2	0.868	0.641	0.443	0.32	0.253	0.206
ac @ 90°C	Ω/km max	1.539	1.113	0.822	0.568	0.411	0.325	0.265
Reactance	Ω/km	0.09	0.09	0.084	0.083	0.08	0.078	0.077
Impedance	Ω/km	1.541	1.117	0.826	0.574	0.419	0.334	0.276
Short Circuit rating	kA (1sec)	2.2	3	4.1	5.9	8.2	10.3	12.7
(Three Phase) Volt drop	mV/A/m	2.67	1.94	1.43	0.99	0.73	0.58	0.48

When ordering please quote: primary + size + finish code
e.g. F7CA 4120 SA0



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

A member of the REUNERT Group



LV ABC
XLPE
Self Support +
1 x 25mm² auxiliary

F7CA... Primary group code
...SAI Finish code

Aluminium 3 core + Neutral + auxiliary
600/1000V
ABC
SANS 1418

Size code	...naaa...	4025	4035	4050	4070	4095	4120	4150
Conductor size	mm ² nom	25	35	50	70	95	120	150
Conductor diameter	mm app.	6.2	7.0	8.2	9.8	11.6	13.5	14.4
Core diameter	mm app.	9.2	10.3	11.5	13.6	15.4	17.3	18.2
Assembled diameter	mm app.	22.1	24.9	27.8	32.8	37.1	41.7	43.9
Cable mass	kg/m app.	0.49	0.63	0.78	1.06	1.37	1.67	1.97
Gross mass (500 m)	kg app.	198	266	341	483	637	787	938
Design Load (UTS/2.5) Combined	kN max	5.3	7.2	10	14	20	25	31
Current rating In air	Amps	111	138	168	213	258	300	339
Resistance dc @ 20°C	Ω/km max	1.200	0.868	0.641	0.443	0.320	0.253	0.206
ac @ 90°C	Ω/km max	1.539	1.113	0.822	0.568	0.411	0.325	0.265
Reactance	Ω/km	0.090	0.090	0.084	0.083	0.080	0.078	0.077
Impedance	Ω/km	1.541	1.117	0.826	0.574	0.419	0.334	0.276
Short Circuit rating (Three Phase) Volt drop	kA (1sec) mV/A/m	2.2 2.67	3.0 1.94	4.1 1.43	5.9 0.99	8.2 0.73	10.3 0.58	12.7 0.48

When ordering please quote: primary + size + finish code
e.g. F7CA 4120 SAI



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

A member of the REUNERT Group



LV ABC
XLPE
SUPPORT +
1 x 25mm² auxiliary

F7CA... Primary group code
...SDI Finish code

Aluminium 3 core + Support + auxiliary
600/1000V
ABC
SANS 1418

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150
Conductor size	mm ² nom	25	35	50	70	95	120	150
Conductor diameter	mm app.	6.2	7.0	8.2	9.8	11.6	13.5	14.4
Core diameter	mm app.	9.2	10.3	11.5	13.6	15.4	17.3	18.2
Assembled diameter	mm app.	33.0	35.5	38.0	42.5	46.5	50.5	52.5
Support Core size	mm ² nom	54.6	54.6	54.6	54.6	54.6	70	70
Cable mass	kg/m app.	0.60	0.70	0.81	1.02	1.26	1.53	1.76
Gross mass (500 m)	kg app.	394	445	524	630	724	1085	1198
Design Load (UTS/2.5)	kN max	6.6	6.6	6.6	6.6	6.6	8.0	8.0
Current rating								
In air	Amps	111	138	168	213	258	300	339
Resistance								
dc @ 20°C	Ω/km max	1.200	0.868	0.641	0.443	0.320	0.253	0.206
ac @ 90°C	Ω/km max	1.539	1.113	0.822	0.568	0.411	0.325	0.265
Reactance								
Impedance	Ω/km	0.090	0.090	0.084	0.083	0.080	0.078	0.077
Short Circuit rating								
(Three Phase) Volt Drop	kA (1sec) mV/A/m	2.2 2.67	3.0 1.93	4.1 1.43	5.9 0.99	8.2 0.73	10.3 0.58	12.7 0.48

When ordering please quote: primary + size + finish code
e.g. F7CA 3120 SEI



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

A member of the REUNERT Group



LV ABC

XLPE

SANS SUPPORT

F7CA... Primary group code

...SD0 Finish code

Aluminium 3 core + Support

600/1000V

ABC

SANS 1418

Size code	...naaa...	3016	3025	3035	3050	3070	3095	3120	3150
Conductor size	mm ² nom	16	25	35	50	70	95	120	150
Conductor diameter	mm app.	5.0	6.2	7.0	8.2	9.8	11.6	13.5	14.4
Core diameter	mm app.	7.5	9.2	10.3	11.5	13.6	15.4	17.3	18.2
Assembled diameter	mm app.	29.3	33.0	35.5	38.0	42.5	46.5	50.5	52.5
Support Core size	mm ² nom	54.6	54.6	54.6	54.6	54.6	54.6	70	70
Cable mass	kg/m app.	0.40	0.50	0.61	0.72	0.93	1.16	1.44	1.66
Gross mass (500 m)	kg app.	294	346	399	476	583	676	1040	1150
Design Load (UTS/2.5)	kN max	6.6	6.6	6.6	6.6	6.6	6.6	8.0	8.0
Current rating									
In air	Amps	87	111	138	168	213	258	300	339
Resistance									
dc @ 20°C	Ω/km max	1.91	1.200	0.868	0.641	0.443	0.320	0.253	0.206
ac @ 90°C	Ω/km max	2.372	1.539	1.113	0.822	0.568	0.411	0.325	0.265
Reactance	Ω/km	0.091	0.090	0.090	0.084	0.083	0.080	0.078	0.077
Impedance	Ω/km	2.374	1.541	1.117	0.826	0.574	0.419	0.334	0.276
Short Circuit rating	kA (1sec)	1.4	2.2	3.0	4.1	5.9	8.2	10.3	12.7
(Three Phase) Volt Drop	mV/A/m	4.11	2.67	1.93	1.43	0.99	0.73	0.58	0.48

When ordering please quote: primary + size + finish code

e.g. F7CA 3120 SE0



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

A member of the REUNERT Group



Low Voltage ABC Cables

LV ABC
 XLPE F7CA... Primary group code
 ESKOM BARE SUPPORT ...EB0 Finish code

Aluminium I core + Bare Support
 600/1000V
 ABC
 ESKOM (SCSSCAAD5)

Size code	...naaa...	1035	1050	1070
Conductor size	mm ² nom	35	50	70
Conductor diameter	mm app.	7.0	8.2	9.8
Core diameter	mm app.	10.3	11.5	13.6
Assembled diameter	mm app.	17.5	20.0	22.0
Support Core size	mm ² nom	35	50	50
Cable mass	kg/m app.	0.23	0.31	0.38
Gross mass 1000 m	kg app.	279	398	469
Design Load (UTS/2.5)	kN max	4.1	5.7	5.7
Current rating				
In air	Amps	138	168	213
Resistance				
dc @ 20°C	Ω/km max	0.868	0.641	0.443
ac @ 90°C	Ω/km max	1.113	0.822	0.568
Reactance				
Impedance	Ω/km	0.090	0.084	0.083
Short Circuit rating				
(Single Phase) Volt Drop	kA (1sec) mV/A/m	3.0 0.18	4.1 0.17	5.9 0.17

When ordering please quote: primary + size + finish code
 e.g. F7CA 1035 EB0



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Low Voltage ABC Cables

LV ABC

XLPE

ESKOM BARE SUPPORT

F7CA... Primary group code

...EB0 Finish code

Aluminium 2 core + Bare Support

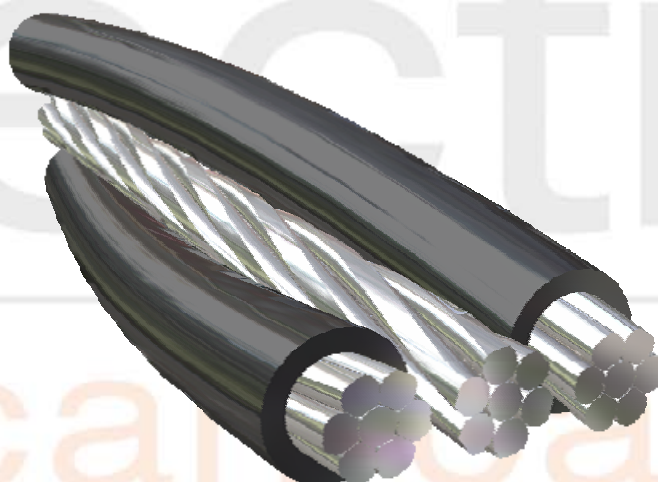
600/1000V

ABC

ESKOM (SCSSCAAD5)

Size code	...naaa...	2035	2050	2070
Conductor size	mm ² nom	35	50	70
Conductor diameter	mm app.	7.0	8.2	9.8
Core diameter	mm app.	10.3	11.5	13.6
Assembled diameter	mm app.	28.0	31.0	35.0
Support Core size	mm ² nom	35	50	50
Cable mass	kg/m app.	0.36	0.48	0.62
Gross mass 1000 m	kg app.	443	568	709
Design Load (UTS/2.5)	kN max	4.1	5.7	5.7
Current rating				
In air	Amps	138	168	213
Resistance				
dc @ 20°C	Ω/km max	0.868	0.641	0.443
ac @ 90°C	Ω/km max	1.113	0.822	0.568
Reactance				
	Ω/km	0.090	0.084	0.083
Impedance				
	Ω/km	1.117	0.826	0.574
Short Circuit rating				
(Single Phase) Volt Drop	kA (1sec)	3.0	4.1	5.9
	mV/A/m	0.18	0.17	0.17

When ordering please quote: primary + size + finish code
e.g. F7CA 2035 EB0



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A member of the REUNERT Group



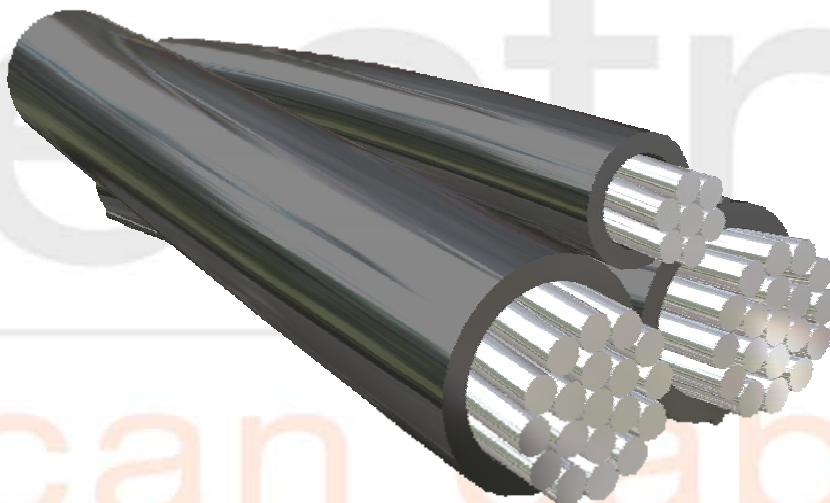
LV ABC
XLPE
SELF SUPPORT +
1 x 25mm² auxiliary

F7CA... Primary group code
...SAI Finish code

Aluminium 2 core
600/1000V
ABC
SANS 1418

Size code	...naaa...	2025	2035	2050	2070	2095	2120	2150
Conductor size	mm ² nom	25	35	50	70	95	120	150
Conductor diameter	mm app.	6.2	7.0	8.2	9.8	11.6	13.5	14.4
Core diameter	mm app.	9.2	10.3	11.5	13.6	15.4	17.3	18.2
Assembled diameter	mm app.	18.5	20.7	23.1	27.2	30.8	34.6	36.4
Cable mass	kg/m app.	0.20	0.26	0.34	0.48	0.64	0.79	0.94
Gross mass (500 m)	kg app.	194	228	288	359	472	557	788
Design Load (UTS/2.5)	kN max	1.32	3.60	4.96	7.12	9.84	12.48	15.36
Current rating								
In air	Amps	111	138	168	213	258	300	339
Resistance								
dc @ 20°C	Ω/km max	1.200	0.868	0.641	0.443	0.320	0.253	0.206
ac @ 90°C	Ω/km max	1.490	1.113	0.822	0.568	0.411	0.325	0.265
Reactance								
	Ω/km	0.090	0.090	0.084	0.083	0.080	0.078	0.077
Impedance								
	Ω/km	1.493	1.117	0.826	0.574	0.419	0.334	0.276
Short Circuit rating								
(Single Phase) Volt Drop	kA (1sec)	2.3	3.0	4.1	5.9	8.2	10.3	12.7
	mV/A/m	2.99	2.23	1.65	1.15	0.84	0.67	0.55

When ordering please quote: primary + size + finish code
e.g. F7CA 2025 SAI



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LV ABC

XLPE

ESKOM BARE SUPPORT

F7CA... Primary group code

...EB0 Finish code

Aluminium 3 core + Bare Support

600/1000V

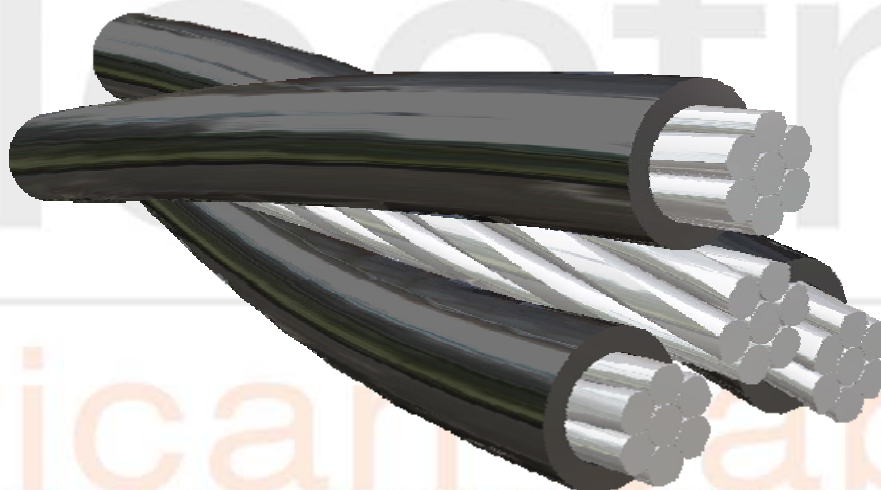
ABC

ESKOM (SCSSCAAD5)

Size code	...naaa...	3035	3050	3070	3095	3120
Conductor size	mm ² nom	35	50	70	95	120
Conductor diameter	mm app.	7.0	8.2	9.8	12.0	13.5
Core diameter	mm app.	10.3	11.5	13.6	15.5	17.5
Assembled diameter	mm app.	28.0	31.0	35.0	44.0	48.0
Support Core size	mm ² nom	35	50	50	70	70
Cable mass	kg/m app.	0.49	0.61	0.82	1.15	1.37
Gross mass (500 m)	kg app.	337	394	499	666	778
Design Load (UTS/2.5)	kN max	4.1	5.7	5.7	5.7	5.7
Current rating						
In air	Amps	138	168	213	250	290
Resistance						
dc @ 20°C	Ω/km max	0.868	0.641	0.443	0.320	0.253
ac @ 90°C	Ω/km max	1.113	0.822	0.568	0.398	0.315
Reactance	Ω/km	0.090	0.084	0.083	0.080	0.078
Impedance	Ω/km	1.117	0.826	0.574	0.406	0.325
Short Circuit rating	kA (1sec)	3.0	4.1	5.9	8.5	10.7
(Three Phase) Volt Drop	mV/A/m	1.93	1.43	0.99	0.70	0.56

When ordering please quote: primary + size + finish code

e.g. F7CA 3035 EB0



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LV ABC
XLPE
SELF SUPPORT

F7CA... Primary group code
...SA0 Finish code

Aluminium 1 core
600/1000V
ABC
SANS 1418

Size code	...naaa...	1016	1025	1035	1050	1070	1095	1120	1150
Conductor size	mm ² nom	16	25	35	50	70	95	120	150
Conductor diameter	mm app.	5.0	6.2	7.0	8.2	9.8	11.6	13.5	14.4
Core diameter	mm app.	7.5	9.2	10.3	11.5	13.6	15.4	17.3	18.2
Cable mass	kg/m app.	0.06	0.10	0.13	0.17	0.24	0.32	0.39	0.47
Gross mass (500 m)	kg app.	128	145	162	203	238	313	361	554
Design Load (UTS/2.5)	kN max	0.83	1.32	1.80	2.48	3.56	4.92	6.24	7.68
Current rating									
In air	Amps	87	111	138	168	213	258	300	339
Resistance									
dc @ 20°C	Ω/km max	1.910	1.200	0.868	0.641	0.443	0.320	0.253	0.206
ac @ 90°C	Ω/km max	2.372	1.539	1.113	0.822	0.568	0.411	0.325	0.265
Short Circuit rating	kA (1sec)	1.4	2.2	3.0	4.1	5.9	8.2	10.3	12.7
(Single Phase)Volt Drop	mV/A/m	4.75	3.08	2.23	1.65	1.15	0.84	0.67	0.55

When ordering please quote: primary + size + finish code
e.g. F7CA 1016SA0



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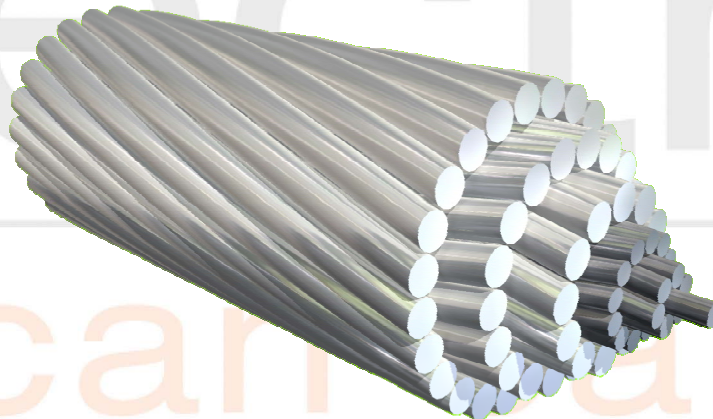
Steel centre, Aluminium.

F0... Primary group code

ACSR CONDUCTOR
DISSCAAY5 / BS215 / IEC61089

Size code		BERSFORT	ZEBRA	DINOSAUR		
No. of Wires (Aluminium/Steel)	mm	48 / 7	54 / 7	54 / 19		
Wire Diameter (Aluminium)	mm	4.27	3.18	3.95		
Wire Diameter (Steel)	mm	3.32	3.18	2.37		
Conductor Diameter	mm	35.6	28.6	35.9		
Total Area (Aluminium)	mm ²	687.4	428.9	661.7		
Total Area (Steel)	mm ²	60.6	55.6	83.8		
Total Conductor Area	mm ²	748.0	484.5	745.5		
Linear Mass (Aluminium)	kg/km	1899.4	1186.3	1830.3		
Linear Mass (Steel)	kg/km	474.7	435.5	658.8		
Conductor Linear Mass	kg/km	2374.1	1621.8	2489.1		
Conductor Linear Mass (Greased)	kg/km	2488.4	1695.3	2603.5		
Resistance dc @ 20°C	Ω/km	0.0421	0.0674	0.0445		
Resistance dc @ 50°C	Ω/km	0.0472	0.0755	0.0499		
Ultimate tensile strength	kN	180.0	133.0	205.5		
Modulus of Elasticity	MPa	65900	73200	72300		
Coefficient of Linear Expansion	$\frac{1}{^\circ\text{C}} \times 10^{-6}$	20.5	19.9	20.0		
Creep constant *	mm/m	0.330	0.300	0.305		
Current rating under Normal Conditions						
AT 50°C	Amps	-	-	-		
AT 60°C	Amps	-	-	-		
AT 70°C	Amps	-	-	-		
AT 80°C	Amps	-	-	-		
AT 90°C	Amps	-	-	-		
Current rating under Emergency Conditions						
AT 50°C	Amps	-	-	-		
AT 60°C	Amps	-	-	-		
AT 70°C	Amps	-	-	-		
AT 80°C	Amps	-	-	-		
AT 90°C	Amps	-	-	-		

* Approximate value determined from Graph I, Annex B of Eskom Spec. DISASABHI_Rev 2



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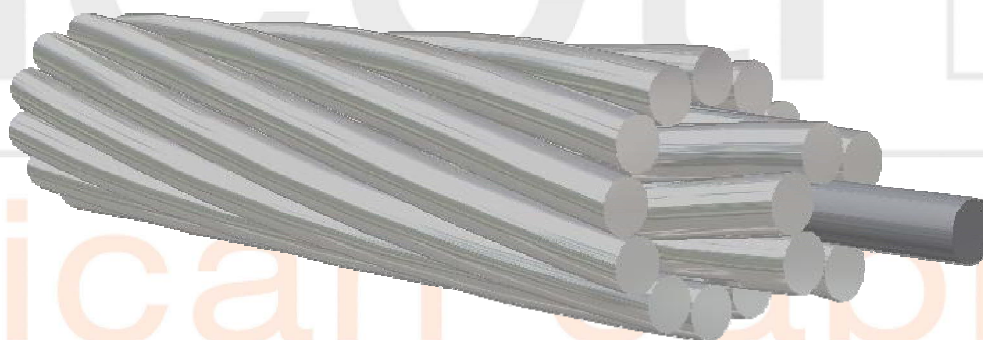
Steel centre, Aluminium.

F0... Primary group code

ACSR CONDUCTOR
DISSCAAY5 / BS215 / IEC61089

Size code		PANTHER	BEAR	KINGBIRD	GOAT	TERN
No. of Wires (Aluminium/Steel)	mm	30 / 7	30 / 7	18 / 1	30 / 7	45 / 7
Wire Diameter (Aluminium)	mm	3.00	3.35	4.78	3.71	3.38
Wire Diameter (Steel)	mm	3.00	3.35	4.78	3.71	2.25
Conductor Diameter	mm	21.0	23.5	23.9	25.9	27.0
Total Area (Aluminium)	mm ²	212.1	264.4	323.0	324.3	403.8
Total Area (Steel)	mm ²	49.5	61.7	17.9	75.7	27.8
Total Conductor Area	mm ²	261.5	326.1	340.9	400.0	431.6
Linear Mass (Aluminium)	kg/km	586.0	731.9	889.7	896.2	1115.7
Linear Mass (Steel)	kg/km	387.6	485.0	140.0	592.8	218.0
Conductor Linear Mass	kg/km	973.6	1216.8	1029.7	1488.9	1333.8
Conductor Linear Mass (Greased)	kg/km	1011.5	1264.1	1072.4	1546.9	1405.4
Resistance dc @ 20°C	Ω/km	0.1363	0.1093	0.0895	0.0891	0.0718
Resistance dc @ 50°C	Ω/km	0.1528	0.1225	0.1003	0.0999	0.0805
Ultimate tensile strength	kN	92.2	112.0	69.8	135.7	98.7
Modulus of Elasticity	MPa	83400	83400	63100	83400	63700
Coefficient of Linear Expansion	1 / °C x10 ⁻⁶	19.3	18.4	21.0	18.4	20.8
Creep constant *	mm/m	0.335	0.335	0.425	0.335	0.420
Current rating under Normal Conditions						
AT 50°C	Amps	463	529	590	596	611
AT 60°C	Amps	580	663	738	747	784
AT 70°C	Amps	673	770	855	867	911
AT 80°C	Amps	751	859	956	967	1023
AT 90°C	Amps	820	937	1032	1055	1116
Current rating under Emergency Conditions						
AT 50°C	Amps	625	715	793	801	814
AT 60°C	Amps	752	860	955	966	991
AT 70°C	Amps	853	976	1088	1103	1138
AT 80°C	Amps	940	1076	1196	1209	1257
AT 90°C	Amps	1019	1165	1294	1322	1360

* Approximate value determined from Graph I, Annex B of Eskom Spec. DISASABHI_Rev 2



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

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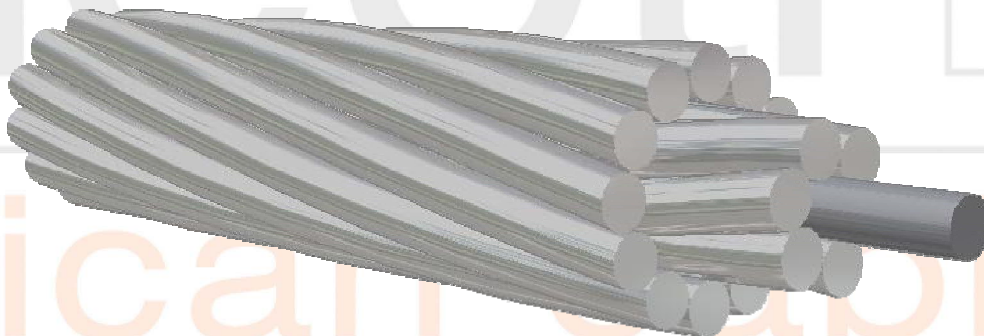
Steel centre, Aluminium.

F0... Primary group code

ACSR CONDUCTOR
DISSCAAY5 / BS215 / IEC61089

Size code			SQUIRREL	FOX	MINK	HARE	CHICADEE	WOLF
No. of Wires (Aluminium/Steel)	mm		6 / 1	6 / 1	6 / 1	6 / 1	18 / 1	30 / 7
Wire Diameter (Aluminium)	mm		2.11	2.79	3.66	4.72	3.77	2.59
Wire Diameter (Steel)	mm		2.11	2.79	3.66	4.72	3.77	2.59
Conductor Diameter	mm		6.33	8.37	11.0	14.16	18.87	18.13
Total Area (Aluminium)	mm ²		21.0	36.7	63.1	105.0	200.9	158.1
Total Area (Steel)	mm ²		3.5	6.1	10.5	17.5	11.2	36.9
Total Conductor Area	mm ²		24.5	42.8	73.6	122.5	212.1	195.0
Linear Mass (Aluminium)	kg/km		57.6	100.7	173.2	288.1	553.4	437.5
Linear Mass (Steel)	kg/km		27.3	47.7	82.1	136.5	87.1	289.9
Conductor Linear Mass	kg/km		84.8	148.3	255.3	424.6	640.5	727.4
Conductor Linear Mass (Greased)	kg/km		86.9	151.9	261.4	434.8	667.1	755.6
Resistance dc @ 20°C	Ω/km		1.3677	0.7822	0.4555	0.2733	0.1427	0.1828
Resistance dc @ 50°C	Ω/km		1.5330	0.8768	0.5106	0.3063	0.1600	0.2409
Ultimate tensile strength	kN		8.0	13.1	21.6	36.0	44.9	69.2
Modulus of Elasticity	MPa		86121	86121	86121	86121	75787	83400
Coefficient of Linear Expansion	1 / °C x10 ⁻⁶		19.3	19.3	19.3	19.3	21.6	18.4
Creep constant *	mm/m		0.360	0.360	0.360	0.360	0.425	0.335
Current rating under Normal Conditions								
AT 50°C	Amps		106	148	209	292	433	378
AT 60°C	Amps		130	184	258	357	541	473
AT 70°C	Amps		149	210	297	408	625	548
AT 80°C	Amps		165	233	330	455	698	610
AT 90°C	Amps		178	253	357	496	758	663
Current rating under Emergency Conditions								
AT 50°C	Amps		135	192	272	380	576	501
AT 60°C	Amps		160	228	324	454	690	602
AT 70°C	Amps		181	258	367	515	786	683
AT 80°C	Amps		198	283	402	565	864	751
AT 90°C	Amps		213	305	434	609	933	810

* Approximate value determined from Graph I, Annex B of Eskom Spec. DISASABHI_Rev 2



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Астрахань (8512)99-46-04	Кемерово (3842)65-04-62	Орел (4862)44-53-42	Сургут (3462)77-98-35
Барнаул (3852)73-04-60	Киров (8332)68-02-04	Оренбург (3532)37-68-04	Тверь (4822)63-31-35
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