

Only for use in applications protected from solar radiation

Aluminium 4 Core

XLPE

F6CA... Primary group code

600/1000V

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

SANS 1507

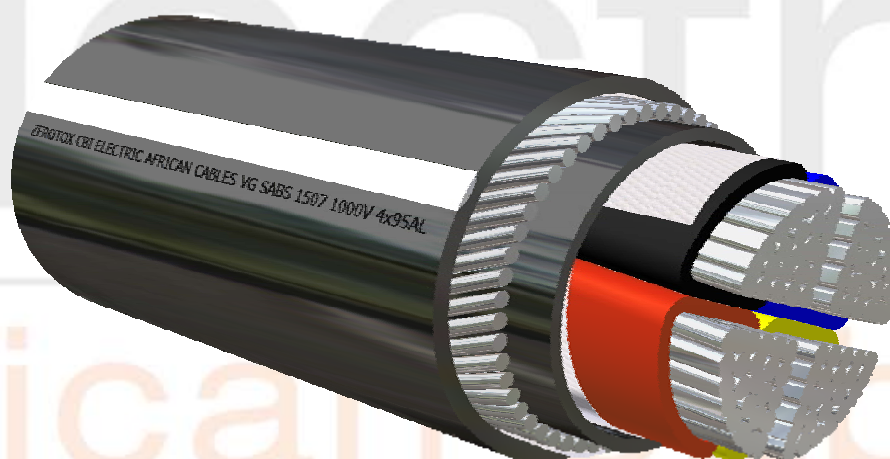
Size code	...naaa...	4025	4035	4050	4070	4095	4120	4150	4185	4240	4300
Conductor size	mm <sup>2</sup> nom	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	6.0	7.0	8.0	9.5	11.0	12.5	14.0	15.5	18.0	20.0
Insulation diameter	mm app.	7.5	8.5	10.0	12.0	13.5	15.0	17.0	19.0	21.5	24.0
Bedding diameter	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

Last updated May 2006

When ordering please quote: primary + size + finish code

e.g. F6CA 4025 313

\*Earth fault rating limited by symmetrical fault rating



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

A member of the REUNERT Group

**CBI Electric African Cables**

PO Box 172, Vereeniging 1930 • Tel: +27 16 430 6000 • Fax: +27 16 423 6103

www.cbi-electric.com • afcab@cbi-electric.com

