

# Low Voltage NHLSTR Cables

Only for use in applications protected from solar radiation.

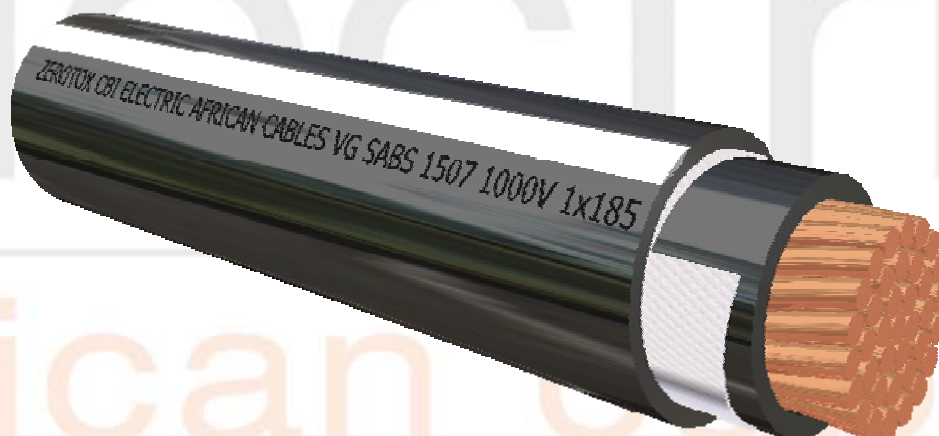
NHLSTR F6CC... Primary group code  
 ZEROTOX (white stripe) ...003 Finish code

Copper I Core  
 600/1000V  
 SANS 1507

Size code	...naaa...	1400	1500	1630	1800	1999
Conductor size	mm <sup>2</sup> 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

Last updated May 2006

When ordering please quote: primary + size + finish code  
 e.g. F6CC 1400 003



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**CBI Electric African Cables**  
 PO Box 172, Vereeniging 1930 • Tel: +27 16 430 6000 • Fax: +27 16 423 6103  
[www.cbi-electric.com](http://www.cbi-electric.com) • [afcab@cbi-electric.com](mailto:afcab@cbi-electric.com)

