

Description: 66 kV Copper, XLPE, Corrugated Seamless Aluminium (CSA), LLDPE Graphite

Specification: SANS/IEC 60840/ NRS 077, Fully Water Blocked

Last updated: December 2025

PHYSICAL									
Conductor size	mm ²	1200	1600	2000	2500				
Conductor diameter	mm	43,4	51,0	56,1	62,5				
Diameter over s/c conductor screen	mm	48,6	55,6	61,3	67,8				
Diameter over XLPE insulation	mm	67,7	74,7	80,9	87,3				
Diameter over s/c core screen	mm	70,7	77,7	83,8	90,2				
Diameter over CSA sheath	mm	90,6	97,9	104,3	110,9				
Final diameter of cable (D)	mm	103,8	111,1	117,5	124,1				
Cable mass (approximate)	kg/m	18,5	23,5	0,0	32,3				
Gross mass (500 m) (approximate)	kg	10600	13100	14800	17600				
Minimum installation bending radius	m	3,11	3,33	3,52	3,72				
ELECTRICAL RATINGS									
DC Resistance @ 20°C	Ω/km	0,0151	0,0113	0,0090	0,0072				
Max Electric stress at conductor screen	kV/mm	4,72	4,63	4,49	4,44				
Min Electric stress at insulation screen	kV/mm	3,39	3,45	3,40	3,44				
Capacitance	μF/km	0,418	0,470	0,502	0,548				
Zero Sequence Resistance @ 90 °C	Ω/km	0,0829	0,0739	0,0678	0,0624				
Zero Sequence Reactance @ 90 °C	Ω/km	0,0570	0,0521	0,0521	0,0476				
ELECTRICAL RATINGS (FORMATION BASED)									
		Tref	*Flat	Tref	*Flat	Tref	*Flat	Tref	*Flat
Current rating in ground	Amps	1002	1160	1092	1305	424	449	424	449
Current rating in air in shade	Amps	1553	1961	1747	2278	584	677	584	677
AC Resistance @ 90 °C	Ω/km	0,0221	0,0218	0,0180	0,0176	0,1290	0,1290	0,1290	0,1290
Reactance	Ω/km	0,114	0,173	0,109	0,167	0,142	0,200	0,142	0,200
Impedance	Ω/km	0,117	0,174	0,110	0,168	0,192	0,238	0,192	0,238
Sheath standing voltage outer phases	V/km	57,6	149,0	61,8	167,0	25,7	59,1	25,7	59,1
SHORT CIRCUIT RATINGS									
Symmetrical fault rating (250 °C)	kA (1 s)	172,0		229,0		286,0		358,0	
Earth fault rating (150 °C)	kA (1 s)	43,2		46,6		49,7		52,9	

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

- Conductor temperature = 90 °C
- Soil thermal resistance = 1,2 K·m/W
- Soil temperature = 25 °C
- Air temperature = 30 °C
- Depth of burial = 1200 mm
- * Flat spacing 2D
- ±5% tolerance on dimensions



DISCLAIMER: CBI reserves the right to change product specifications from time to time to effect improvements and /or enhancements and accepts no liability arising from any difference between the published parameters of this data sheet and the finished product, unless by prior written agreement.

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CBI electric: african cables | a division of ATC Pty Ltd | Registration No. 1955/003773/07
 PO Box 172, Vereeniging 1930 | 1 Steel Road, Peacehaven, Vereeniging, 1939, South Africa
 Tel: +27 16 430 6000 | www.cbi-electric.com | a Reunert company | B-BBEE Level 1
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