

**Description:** 132 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 <sup>2</sup>	1200	1600	2000	2500				
Conductor diameter	mm	43,4	50,7	56,1	62,8				
Diameter over s/c conductor screen	mm	47,3	54,9	61,1	66,4				
Diameter over XLPE insulation	mm	81,7	89,8	96,0	101,7				
Diameter over s/c core screen	mm	84,6	92,7	98,9	104,6				
Diameter over CSA sheath	mm	108,1	115,0	125,0	128,6				
Final diameter of cable (D)	mm	121,3	128,2	138,2	141,8				
Cable mass (approximate)	kg/m	20,6	25,0	30,1	35,2				
Gross mass (500 m) (approximate)	kg	11610	13900	16500	19000				
Minimum installation bending radius	m	3,64	3,85	4,15	4,30				
ELECTRICAL RATINGS									
DC Resistance @ 20°C	Ω/km	0,0151	0,0113	0,0090	0,0072				
Max Electric stress at conductor screen	kV/mm	5,90	5,65	5,53	5,38				
Min Electric stress at insulation screen	kV/mm	3,42	3,45	3,52	3,51				
Capacitance	μF/km	0,255	0,283	0,308	0,326				
Zero Sequence Resistance @ 90 °C	Ω/km	0,0722	0,0658	0,0581	0,0553				
Zero Sequence Reactance @ 90 °C	Ω/km	0,0688	0,0627	0,0617	0,0570				
ELECTRICAL RATINGS (FORMATION BASED)									
		Tref	*Flat	Tref	*Flat	Tref	*Flat	Tref	*Flat
Current rating in ground	Amps	987	1151	1080	1296	1137	1403	1190	1505
Current rating in air in shade	Amps	1524	1870	1712	2168	1846	2380	1973	2618
AC Resistance @ 90 °C	Ω/km	0,022	0,022	0,018	0,018	0,0155	0,0151	0,014	0,013
Reactance	Ω/km	0,124	0,182	0,118	0,176	0,116	0,174	0,111	0,169
Impedance	Ω/km	0,126	0,184	0,119	0,177	0,117	0,175	0,112	0,170
Sheath standing voltage outer phases	V/km	54,8	146,0	59,7	164,0	62,1	176,0	64,2	188,0
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)	53,5		56,2		62,0		63,1	

#Note LLDPE default, datasheet applicable for MDPE and HDPE where required.

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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