

Description: 132 kV Aluminium, XLPE, Corrugated Seamless Aluminium (CSA), #LLDPE Graphite

Specification: SANS/IEC 60840/ NRS 077, Core Water Blocked Only

Last updated: December 2025

PHYSICAL									
Conductor size	mm ²	1200	1600	2000	2500				
Conductor diameter	mm	43,4	51,0	56,1	62,9				
Diameter over s/c conductor screen	mm	47,3	55,0	60,8	67,1				
Diameter over XLPE insulation	mm	81,7	89,5	95,7	102,4				
Diameter over s/c core screen	mm	84,6	92,4	98,6	105,3				
Diameter over CSA sheath	mm	108,1	117,0	124,7	130,0				
Final diameter of cable (D)	mm	121,3	130,2	137,9	143,2				
Cable mass (approximate)	kg/m	13,2	15,3	17,1	19,6				
Gross mass (500 m) (approximate)	kg	7900	9020	9950	11200				
Minimum installation bending radius	m	3,64	3,90	4,14	4,30				
ELECTRICAL RATINGS									
DC Resistance @ 20°C	Ω/km	0,0247	0,0186	0,0149	0,0119				
Max Electric stress at conductor screen	kV/mm	5,90	5,69	5,53	5,37				
Min Electric stress at insulation screen	kV/mm	3,42	3,49	3,52	3,52				
Capacitance	μF/km	0,255	0,285	0,307	0,328				
Zero Sequence Resistance @ 90 °C	Ω/km	0,0823	0,0706	0,0641	0,0578				
Zero Sequence Reactance @ 90 °C	Ω/km	0,0697	0,0637	0,0616	0,0575				
ELECTRICAL RATINGS (FORMATION BASED)									
		Tref	*Flat	Tref	*Flat	Tref	*Flat	Tref	*Flat
Current rating in ground	Amps	852	963	963	1119	964	1119	1140	1399
Current rating in air in shade	Amps	1308	1564	1518	1860	1516	1861	1885	2423
AC Resistance @ 90 °C	Ω/km	0,0319	0,0318	0,0241	0,0241	0,024	0,024	0,0160	0,0160
Reactance	Ω/km	0,124	0,182	0,119	0,177	0,118	0,177	0,111	0,169
Impedance	Ω/km	0,128	0,185	0,121	0,178	0,121	0,178	0,113	0,170
Sheath standing voltage outer phases	V/km	46,5	121,0	52,9	141,0	52,9	141,0	61,4	175,0
SHORT CIRCUIT RATINGS									
Symmetrical fault rating (250 °C)	kA (1 s)	113,0		151,0		189,0		236,0	
Earth fault rating (150 °C)	kA (1 s)	53,5		57,5		61,1		63,9	

*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.

POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

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
 ISO 9001 | ISO 14001 | ISO 45001