

**Description:** 66 kV Copper, 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 <sup>2</sup>	1200	1600	2000	2500				
Conductor diameter	mm	43,4	51,0	56,1	62,8				
Diameter over s/c conductor screen	mm	48,1	55,6	61,3	67,2				
Diameter over XLPE insulation	mm	67,2	74,7	80,9	86,7				
Diameter over s/c core screen	mm	70,2	77,7	83,8	89,7				
Diameter over CSA sheath	mm	90,1	97,9	104,3	110,4				
Final diameter of cable (D)	mm	103,3	111,1	117,5	123,6				
Cable mass (approximate)	kg/m	18,5	23,5	26,6	32,4				
Gross mass (500 m) (approximate)	kg	10600	13100	14700	17600				
Minimum installation bending radius	m	3,10	3,33	3,52	3,71				
ELECTRICAL RATINGS									
DC Resistance @ 20°C	Ω/km	0,0151	0,0113	0,0090	0,00720				
Max Electric stress at conductor screen	kV/mm	4,73	4,63	4,49	4,44				
Min Electric stress at insulation screen	kV/mm	3,38	3,45	3,40	3,44				
Capacitance	μF/km	0,415	0,470	0,502	0,544				
Zero Sequence Resistance @ 90 °C	Ω/km	0,0833	0,0739	0,0678	0,0627				
Zero Sequence Reactance @ 90 °C	Ω/km	0,0566	0,0521	0,0521	0,0470				
ELECTRICAL RATINGS (FORMATION BASED)									
		Tref	*Flat	Tref	*Flat	Tref	*Flat	Tref	*Flat
Current rating in ground	Amps	1003	1161	1093	1305	1152	1411	1204	1516
Current rating in air in shade	Amps	1555	1964	1746	2278	1882	2506	2014	2762
AC Resistance @ 90 °C	Ω/km	0,0221	0,0218	0,0180	0,0176	0,0157	0,0152	0,0139	0,0133
Reactance	Ω/km	0,114	0,172	0,109	0,167	0,106	0,164	0,102	0,160
Impedance	Ω/km	0,116	0,174	0,110	0,168	0,107	0,165	0,103	0,161
Sheath standing voltage outer phases	V/km	57,7	149,0	61,9	167,0	63,7	177,0	65,8	190,0
Sheath standing voltage Centre phase	V/km	1003	1161	1093	1305	1152	1411	1204	1516
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)	42,9		46,2		49,7		52,6	

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 information and the actual product.

**POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS**