

**Description:** 88 kV Copper, XLPE, Corrugated Seamless Aluminium (CSA), LLDPE Graphite

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

*Last updated: December 2025*

<b>PHYSICAL</b>									
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	48,1	52,2	55,6	67,2				
Diameter over XLPE insulation	mm	72,4	76,8	80,8	92,4				
Diameter over s/c core screen	mm	75,4	79,7	83,7	95,8				
Diameter over CSA sheath	mm	95,7	100,2	104,4	118,2				
Final diameter of cable (D)	mm	107,7	113,4	117,6	131,4				
Cable mass (approximate)	kg/m	21,6	22,6	27,0	33,7				
Gross mass (500 m) (approximate)	kg	11700	12700	14900	18200				
Minimum installation bending radius	m	3,23	3,40	3,53	3,94				
<b>ELECTRICAL RATINGS (FORMATION BASED)</b>									
DC Resistance @ 20°C	Ω/km	0,0151	0,0113	0,0090	0,0072				
Max Electric stress at conductor screen	kV/mm	5,16	5,05	4,89	4,75				
Min Electric stress at insulation screen	kV/mm	3,43	3,44	3,37	3,46				
Capacitance	µF/km	0,339	0,376	0,372	0,440				
Zero Sequence Resistance @ 90 °C	Ω/km	0,0799	0,0725	0,0676	0,0604				
Zero Sequence Reactance @ 90 °C	Ω/km	0,0606	0,0539	0,0502	0,0511				
<b>SHORT CIRCUIT RATINGS</b>									
Symmetrical fault rating (250 °C)	kA (1 s)	172,0	229,0	286,0	358,0				
Earth fault rating (150 °C )	kA (1 s)	46,1	47,9	49,8	56,7				

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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