

# Medium Voltage ABC 22kV Type B

**Description:** 22 kV Aluminium, 3 Core XLPE Insulated + PVC insulated Steel Catenary Type B

**Code:** 50mm<sup>2</sup> Steel Catenary

F7HA 3nnn ZZ SGB 0K0S

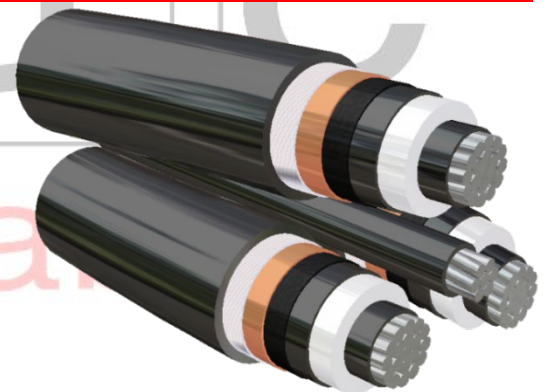
70mm<sup>2</sup> Steel Catenary

F7HA 3nnn ZZ SHB 0K0S

**Specification:** SANS 1713

*Last updated January 2026*

Size Code		...3nnn...	3035	3050	3070	3095	3120	3150	3185
<b>PHYSICAL</b>									
Conductor size	mm <sup>2</sup> nom		35	50	70	95	120	150	185
Conductor diameter	mm app.		7,0	8,5	10,0	12,0	13,5	14,5	16,0
Diameter over insulation	mm app.		20,0	21,5	23,0	25,0	26,5	27,2	28,6
Core diameter (PVC Sheath)	mm app.		26,5	27,5	29,5	31,5	33,0	33,9	35,5
Assembled diameter)	mm app.		64,0	66,5	70,5	74,0	79,5	81,0	84,3
Cable mass	kg/m app.		2,85	3,1	3,48	3,9	4,51	4,74	5,24
Gross mass (500m)	kg app.		1743	2167	2370	2393	2912	3039	3291
Bending radius	mm min.		960	998	1058	1110	1193	1215	1265
Current ratings	Amps		122	146	181	220	254	362	415
<b>ELECTRICAL</b>									
DC Resistance @ 20°C	Ω/km		0,868	0,641	0,443	0,320	0,253	0,206	0,164
AC Resistance @ 90°C	Ω/km		1,113	0,822	0,568	0,411	0,325	0,265	0,211
Reactance	Ω/km		0,139	0,133	0,122	0,115	0,110	0,116	0,113
Impedance	Ω/km		1,122	0,833	0,581	0,426	0,343	0,289	0,239
<b>SHORT CIRCUIT RATINGS</b>									
Symmetrical (250 °C)	kA (1sec)		3,3	4,7	6,6	9,0	11,3	14,2	17,5
Earth Fault (250 °C)	kA (1sec)		1,9	2,0	2,1	2,3	2,4	2,5	2,6
<b>Finished code</b>									
			...SGB	...SGB	...SGB	...SGB	...SHB	...SHB	...SHB
Steel Carrier size			50	50	50	50	70	70	70
Design Load (UTS/2,5)	kN max		24,6	24,6	24,6	24,6	34,9	34,9	34,9
Conductor diameter	mm app.		9,0	9,0	9,0	9,0	10,8	10,8	10,8
Core diameter (PVC sheath)	mm app.		11,5	11,5	11,5	11,5	13,5	13,5	13,5



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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