

# Medium Voltage ABC 11kV Type B

**Description:** 11 kV Aluminium, 3 Core XLPE Insulated + PVC insulated Steel Catenary Type B

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

F7FA 3nnn ZZ SGB 0K0S

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

F7FA 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.	16,0	16,8	18,5	20,5	22,0	23,5	25,0
Core diameter (PVC Sheath)	mm app.	22,0	22,9	25,0	27,0	28,5	30,0	31,5
Assembled diameter)	mm app.	55,0	57,5	61,0	65,0	70,0	73,0	76,0
Cable mass	kg/m app.	2,23	2,44	2,76	3,18	3,71	4,1	4,53
Gross mass (500m)	kg app.	1368	1491	1703	1911	2485	2486	2707
Bending radius	mm min.	825	863	915	975	1050	1095	1140
Current ratings	Amps	119	143	179	217	251	283	325
<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	0,136	0,124	0,121	0,114	0,110	0,107	0,104
Impedance	Ω/km	1,121	0,832	0,581	0,426	0,343	0,285	0,234
<b>SHORT CIRCUIT RATINGS</b>								
Symmetrical	kA (1sec)	3,3	4,7	6,6	9,0	11,3	14,2	17,5
Earth Fault	kA (1sec)	1,5	1,6	1,7	1,9	2,1	2,2	2,3
<b>Finished code</b>		<b>...SGB</b>	<b>...SGB</b>	<b>...SGB</b>	<b>...SGB</b>	<b>...SHB</b>	<b>...SHB</b>	<b>...SHB</b>
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



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