

Medium Voltage ABC 6,6kV Type B

Description: 6,6 kV Aluminium, 3 Core XLPE Insulated + PVC insulated Steel Catenary Type B

Finish Code: 50mm² Steel Catenary

F7EA 3nnn ZZ SGB 0K0S

70mm² Steel Catenary

F7EA 3nnn ZZ SHB 0K0S

Specification: SANS 1713

Last updated January 2026

Size Code	...3nnn...	3035	3050	3070	3095	3120	3150	3185
PHYSICAL								
Conductor size	mm ² 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.	13,6	14,9	16,3	18,5	20,2	21,0	22,5
Core diameter (PVC Sheath)	mm app.	19,5	20,8	22,4	24,3	26,5	27,3	29,0
Assembled diameter)	mm app.	50,4	53,1	56,3	60,1	66,2	67,9	71,2
Cable mass	kg/m app.	1,91	2,12	2,43	2,79	3,36	3,65	4,10
Gross mass (500m)	kg app.	1274	1331	1487	1715	2251	2397	2623
Bending radius	mm min.	755	796	844	901	992	1018	1068
Current ratings	Amps	145	176	221	270	312	355	406
ELECTRICAL								
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	0,131	0,125	0,116	0,109	0,106	0,102	0,099
Impedance	Ω/km	1,121	0,831	0,58	0,425	0,342	0,284	0,233
SHORT CIRCUIT RATINGS								
Symmetrical	kA (1sec)	3,3	4,7	6,6	9,0	11,3	14,2	17,5
Earth Fault	kA (1sec)	1,3	1,5	1,6	1,7	1,9	2,0	2,1
Finished code		...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	34,5	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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