

## MV ABC Aluminium 3 Core Технические характеристики



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Aluminium 3 Core + Catenary  
3800/6600V  
Type B  
SANS 1713

XLPE F7EA..... Primary group code  
SANS Steel Catenary Type B ...SGB Finish code

Size code	...naaa...	3035	3050	3070	3095	3120	3150	3185
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
Insulation diameter	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 (500 m )	kg app.	1274	1331	1487	1715	2251	2397	2623
Bending radius	mm min.	755	796	844	901	992	1018	1068
Current rating	Amps	145	176	221	270	312	355	406
Resistance								
dc @ 20°C	Ω/km max	0.868	0.641	0.443	0.320	0.253	0.206	0.164
ac @ 90°C	Ω/km max	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)	3.0	4.0	5.8	8.0	10.2	12.5	15.7
Earth fault	kA (1sec)	1.3	1.5	1.6	1.7	1.9	2.0	2.1
Finish 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

When ordering please quote: primary + size + finish code  
e.g. F2EA 3095 SGB



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Aluminium 3 Core + Catenary  
6350/11000kV  
Type A  
SANS 1713

XLPE                                      F7FA.....                                      Primary group code  
Steel Catenary                                      ...SGA                                      Finish code

Size code	...naaa...	3095
Conductor size	mm <sup>2</sup> nom	95
Conductor diameter	mm app.	12.0
Insulation diameter	mm app.	20.1
Core dia. (PVC sheath)	mm app.	31.5
Assembled dia	mm app.	74.5
Cable mass	kg/m app.	3.8
Gross mass ( 500 m )	kg app.	2472
Bending radius	mm min.	1115
Current rating	Amps	283
Resistance		
dc @ 20°C	Ω/km max	0.320
ac @ 90°C	Ω/km max	0.411
Reactance	Ω/km	0.125.
Impedance 90°C	Ω/km	0.429
Short circuit ratings		
Symmetrical	kA (1sec)	8.0
Earth fault	kA (1sec)	10.0
Finish code		SGB
Steel Carrier size		50
Design Load (UTS/2.5)	kN max	24.6
Conductor diameter	mm app.	9.0
Core dia (PVC sheath)	mm app.	11.5

When ordering please quote: primary + size + finish code e.g. F7FA 3095 SGA



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XLPE F7FA..... Primary group code  
SANS Steel Catenary Type B ...SGB Finish code

Aluminium 3 Core + Catenary  
6350/11000V  
Type B  
SANS 1713

Size code	...naaa...	3035	3050	3070	3095	3120	3150	3185
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
Insulation diameter	mm app.	15.4	16.8	18.2	20.1	22.0	22.9	24.3
Core diameter (PVC sheath)	mm app.	21.5	22.9	24.3	26.4	28.3	29.4	30.8
Assembled diameter	mm app.	54.5	57.2	60.0	64.2	69.8	72.0	74.9
Cable mass	kg/m app.	2.15	2.37	2.67	3.08	3.63	3.97	4.40
Gross mass (500 m )	kg app.	1350	1460	1655	1860	2388	2557	2852
Bending radius	mm min.	817	857	899	962	1048	1080	1123
Current rating	Amps	145	176	221	273	315	359	410
Resistance								
dc @ 20°C	Ω/km max	0.868	0.641	0.443	0.320	0.253	0.206	0.164
ac @ 90°C	Ω/km max	1.113	0.822	0.568	0.411	0.325	0.265	0.211
Reactance	Ω/km	0.137	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
Short circuit ratings								
Symmetrical	kA (1sec)	3.0	4.0	5.8	8.0	10.2	12.5	15.7
Earth fault	kA (1sec)	1.5	1.6	1.7	1.9	2.1	2.1	2.3
Finish 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	34.9	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

When ordering please quote: primary + size + finish code  
e.g. F2FA 3095 SGB



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XLPE  
SANS Steel Catenary Type B

F7HA..... Primary group code  
...SGB Finish code

Aluminium 3 Core + Catenary  
12700/2200V  
Type B  
SANS 1713

Size code	...naaa...	3035	3050	3070	3095	3120	3150	3185
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
Insulation diameter	mm app.	19.7	21.1	22.5	24.4	26.3	27.2	28.6
Core diameter (PVC sheath)	mm app.	26.0	27.4	29.0	30.9	33.0	33.9	35.5
Assembled diameter	mm app.	63.5	66.2	69.4	73.2	79.3	81.0	84.3
Cable mass	kg/m app.	2.75	3.00	3.37	3.78	4.42	4.74	5.24
Gross mass (500 m )	kg app.	1698	2072	2255	2544	2881	3039	3291
Bending radius	mm min.	952	993	1041	1098	1189	1215	1265
Current rating	Amps	152	183	228	277	320	362	415
Resistance								
dc @ 20°C	Ω/km max	0.868	0.641	0.443	0.320	0.253	0.206	0.164
ac @ 90°C	Ω/km max	1.113	0.822	0.568	0.411	0.325	0.265	0.211
Reactance	Ω/km	0.149	0.141	0.132	0.124	0.118	0.116	0.113
Impedance	Ω/km	1.123	0.834	0.583	0.429	0.346	0.289	0.239
Short circuit ratings								
Symmetrical	kA (1sec)	3.0	4.0	5.8	8.0	10.2	12.5	15.7
Earth fault	kA (1sec)	1.9	2.0	2.1	2.3	2.4	2.5	2.6
Finish 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	34.9	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

When ordering please quote: primary + size + finish code  
e.g. F2HA 3095 SGB



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Aluminium 3 Core + Catenary  
 19000/33000V  
 Type B  
 SANS 1713

XLPE  
 SANS Steel Catenary Type B

F7JA.....  
 ...SGB

Primary group code  
 Finish code

Size code	...naaa...	3050	3070	3095	3120	3150	3185
Conductor size	mm <sup>2</sup> nom	50	70	95	120	150	185
Conductor diameter	mm app.	8.5	10.0	12.0	13.5	14.5	16.0
Insulation diameter	mm app.	26.2	27.6	29.5	31.4	32.3	33.8
Core diameter (PVC sheath)	mm app.	32.9	34.3	36.4	38.3	39.4	40.9
Assembled diameter	mm app.	77.24	80.04	84.26	89.94	92.06	94.96
Cable mass	kg/m app.	3.91	4.27	4.78	5.42	5.81	6.30
Gross mass (500 m )	kg app.	2609	2804	3061	3922	4118	4363
Bending radius	mm min.	1159	1201	1264	1349	1381	1424
Current rating	Amps	188	232	283	325	367	420
Resistance							
dc @ 20°C	Ω/km max	0.641	0.443	0.320	0.253	0.206	0.164
ac @ 90°C	Ω/km max	0.822	0.568	0.411	0.325	0.265	0.211
Reactance	Ω/km	0.153	0.143	0.134	0.128	0.126	0.122
Impedance	Ω/km	0.836	0.586	0.432	0.349	0.293	0.244
Short circuit ratings							
Symmetrical	kA (1sec)	4.0	5.8	8.0	10.2	12.5	15.7
Earth fault	kA (1sec)	2.4	2.5	2.7	2.9	2.9	3.1
Finish code		...SGB	...SGB	...SGB	...SHB	...SHB	...SHB
Steel Carrier size		50	50	50	70	70	70
Design load (UTS/2.5)	kN max	24.6	24.6	24.6	34.9	34.9	34.9
Conductor diameter	mm app.	9.0	9.0	9.0	10.8	10.8	10.8
Core diameter(PVC sheath)	mm app.	11.5	11.5	11.5	13.5	13.5	13.5

When ordering please quote: primary + size + finish code  
 e.g. F2JA 3095 SGB



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