

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

Aluminium 3 Core + Catenary  
3800/6600V  
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.	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

Last updated May 2006

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



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