

Description:	6350/11000V, Aluminium, 1 Core, Type B	F2FA...
Sheathing:	FRPVC (red stripe)	...081
	LHPVC (blue stripe)	...082
Specification:	SANS 1339	

Last updated: October 2016

Size code	...n/a	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
PHYSICAL DIMENSIONS														
Conductor size	mm ² nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.50	10.00	12.00	13.50	15.00	16.50	19.00	21.50	24.00	27.50	31.50	35.00	39.00
Insulation diameter	mm app.	17.00	18.50	20.50	22.00	23.50	25.00	27.50	30.00	34.00	38.00	42.00	46.00	50.00
Cable diameter	mm app.	24.00	25.00	27.00	29.00	30.00	32.00	35.00	37.00	41.00	45.00	50.00	54.00	58.00
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	0.75	0.86	1.01	1.13	1.27	1.43	1.68	1.82	2.26	2.7	3.24	3.86	4.6
Gross mass (500 m)	kg app.	530	585	680	740	810	935	1065	1135	1475	1695	2095	2425	2795
Bending radius	mm min.	480	500	540	580	600	640	700	740	820	900	1000	1080	1160
DC Resistance @ 20°C	Ω/km	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.078	0.061	0.047	0.037	0.029
AC Resistance @ 90°C	Ω/km	0.822	0.568	0.411	0.325	0.265	0.211	0.162	0.130	0.102	0.081	0.064	0.052	0.044
Reactance	Ω/km	0.129	0.119	0.112	0.109	0.105	0.102	0.099	0.094	0.093	0.091	0.089	0.087	0.085
Impedance	Ω/km	0.832	0.580	0.426	0.343	0.285	0.235	0.189	0.161	0.138	0.121	0.110	0.101	0.095
Capacitance	μF/km	0.355	0.394	0.445	0.483	0.521	0.559	0.622	0.686	0.602	0.632	0.706	0.727	0.797
Current rating:														
In ground	Amps	156	194	233	264	296	334	385	435	496	563	633	705	772
In air in shade	Amps	173	223	273	315	359	410	484	559	652	760	873	992	1111
In air in direct sunlight	Amps	139	179	219	252	286	327	385	444	515	598	685	776	867
Short circuit ratings:														
Symmetrical (250°C)	kA (1sec)	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9	33.3	42.8	55.2	70.6	89.0
Earth fault (200°C)	kA (1sec)	2.0	2.2	2.4	2.6	2.7	2.9	3.2	3.4	3.8	4.3	4.7	5.1	5.5

Ratings above are based on standard laying conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

Soil temperature = 25°C

Depth of burial = 800mm

Air temperature = 30°C

5% tolerance on dimensions

Ratings for solid bonded, Trefoil formation

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B-BBEE Level 1

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