

Description:	6350/11000V, Copper, 3 Core, Type B	F2FC...
Sheathing:	FRPVC (red stripe)	...001
	LHPVC (blue stripe)	...002
Specification:	SANS 1339	

Last updated: October 2016

Size code	...n/a...	3016	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300	3400
PHYSICAL DIMENSIONS													
Conductor size	mm ² nom	16	25	35	50	70	95	120	150	185	240	300	400
Conductor diameter	mm app.	4.8	6.0	7.2	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4	20.4
Insulation diameter	mm app.	13.5	14.7	15.9	17.1	18.6	20.4	22.1	23.3	25.1	27.5	29.1	29.1
Bedding diameter	mm app.	34.5	37.1	39.7	42.3	45.6	49.0	52.7	55.3	59.2	64.3	67.8	67.8
Cable diameter	mm app.	39.1	41.6	44.4	47.2	50.7	54.5	58.4	61.2	65.3	70.7	74.6	74.6
TECHNICAL DATA													
Normal drum length	m	300	300	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	1.74	2.133	2.61	3.11	3.86	4.60	5.43	6.43	7.61	9.46	11.50	14.16
Gross mass (300 m)	kg app.	626.9	814.9	964.1	1115	1363	1717	1923	2259	2614	3237	4079	4940
Bending radius	mm min.	586	625	667	709	760	818	876	918	980	1061	1119	1119
DC Resistance @ 20°C	Ω/km	1.150	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060	0.047
AC Resistance @ 90°C	Ω/km	1.466	0.927	0.668	0.494	0.342	0.247	0.196	0.159	0.128	0.099	0.080	0.064
Reactance	Ω/km	0.138	0.126	0.118	0.112	0.106	0.100	0.096	0.094	0.091	0.088	0.086	0.086
Impedance	Ω/km	1.473	0.936	0.679	0.506	0.358	0.266	0.219	0.185	0.157	0.132	0.117	0.107
Capacitance	μF/km	0.191	0.215	0.240	0.265	0.295	0.332	0.366	0.390	0.426	0.475	0.507	0.507
Current rating:													
In ground	Amps	108	140	167	197	240	285	323	362	408	472	528	590
In air in shade	Amps	115	152	184	220	272	325	375	423	484	569	644	719
In air in direct sunlight	Amps	102	134	162	194	239	286	329	371	424	497	562	628
Short circuit ratings:													
Symmetrical (250°C)	kA (1sec)	2.2	3.4	4.7	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2	52.7
Earth fault (200°C)	kA (1sec)	3.9	4.2	4.5	4.8	5.2	2.8	3.0	3.2	3.4	3.7	3.9	3.9

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

Soil thermal resistance = 1.2 Km/W

Soil temperature = 25 °C

Depth of burial = 800 mm

Air temperature = 30 °C

5% tolerance on dimensions

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