

<b>Description:</b>	<b>6350/11000V, Copper, 1 Core, Type B</b>	<b>F2FC...</b>
<b>Sheathing:</b>	<b>FRPVC (red stripe)</b>	<b>...081</b>
	<b>LHPVC (blue stripe)</b>	<b>...082</b>
<b>Specification:</b>	<b>SANS 1339</b>	

Last updated: October 2016

Size code	...n/a...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
<b>PHYSICAL DIMENSIONS</b>														
Conductor size	mm <sup>2</sup> 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
<b>TECHNICAL DATA</b>														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	0.89	1.28	1.58	1.86	2.18	2.56	3.18	3.71	4.71	5.84	7.28	9.06	11.15
Gross mass ( 500 m )	kg app.	550	755	950	1080	1275	1470	1810	2070	2625	3325	4085	4975	6280
Bending radius	mm min.	480	500	540	580	600	640	700	740	820	900	1000	1080	1160
DC Resistance @ 20°C	Ω/km	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060	0.047	0.037	0.028	0.022	0.018
AC Resistance @ 90°C	Ω/km	0.494	0.342	0.247	0.196	0.159	0.128	0.098	0.080	0.064	0.052	0.042	0.036	0.031
Reactance	Ω/km	0.129	0.121	0.115	0.109	0.104	0.102	0.099	0.094	0.093	0.091	0.089	0.087	0.085
Impedance	Ω/km	0.510	0.363	0.272	0.224	0.190	0.164	0.139	0.123	0.113	0.104	0.098	0.094	0.090
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
<b>Current rating:</b>														
In ground	Amps	200	250	300	339	380	426	491	552	621	695	767	836	896
In air in shade	Amps	223	287	352	404	461	524	617	709	817	939	1059	1180	1293
In air in direct sunlight	Amps	179	231	282	323	368	418	490	562	645	739	831	923	1009
<b>Short circuit ratings:</b>														
Symmetrical (250°C)	kA (1sec)	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2	52.7	67.6	87.5	112.0	140.6
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

# african cables

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