

<b>Description:</b>	<b>3800/6600V, Copper, 1 Core, Type B</b>	<b>F2EC...</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.	15.00	17.00	18.50	20.00	21.50	23.00	26.00	28.50	33.50	37.50	41.50	45.50	50.00
Cable diameter	mm app.	21.00	23.00	25.00	27.00	28.00	30.00	33.00	36.00	41.00	45.00	49.00	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	0.941	1.192	1.41	1.739	1.931	2.308	2.949	3.524	4.647	5.646	7.031	8.751	10.87
Gross mass ( 500 m )	kg app.	575	700	856	1016	1112	1300	1692	1979	2593	3225	3848	4376	5926
Bending radius	mm min.	420	460	500	540	560	600	660	720	820	900	980	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	0.160	0.128	0.099	0.080	0.064	0.052	0.042	0.036	0.031
Reactance	Ω/km	0.121	0.116	0.110	0.105	0.099	0.098	0.095	0.093	0.093	0.091	0.087	0.087	0.085
Impedance	Ω/km	0.508	0.361	0.270	0.222	0.188	0.161	0.137	0.122	0.113	0.104	0.097	0.094	0.090
Capacitance	μF/km	0.523	0.518	0.662	0.722	0.782	0.841	0.831	0.918	0.644	0.672	0.752	0.771	0.797
<b>Current rating:</b>														
In ground	Amps	206	251	299	338	380	426	491	550	619	693	769	833	897
In air in shade	Amps	227	284	347	400	456	520	615	703	813	934	1063	1172	1293
In air in direct sunlight	Amps	184	229	279	321	365	415	490	558	642	735	835	917	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)	1.8	2.0	2.2	2.4	2.5	2.7	3.0	3.3	3.8	4.2	4.6	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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**B-BBEE Level 1**

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