

<b>Description:</b>	<b>3800/6600, Aluminium, 1 Core, Type B</b>	<b>F2EA...</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	0.66	0.77	0.91	1.03	1.06	1.21	1.45	1.73	2.20	2.67	3.21	3.83	4.56
Gross mass ( 500 m )	kg app.	480	540	605	670	670	777	950	1085	1450	1680	2080	2405	2775
Bending radius	mm min.	420	460	500	540	560	600	660	720	820	900	980	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	0.121	0.113	0.107	0.105	0.100	0.098	0.095	0.093	0.093	0.091	0.087	0.087	0.085
Impedance	Ω/km	0.831	0.579	0.424	0.341	0.283	0.233	0.188	0.160	0.138	0.121	0.109	0.102	0.095
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	159	195	232	264	296	333	386	434	495	562	635	703	772
In air in shade	Amps	176	221	270	312	355	406	483	555	648	756	876	987	1111
In air in direct sunlight	Amps	143	178	217	250	284	325	385	440	512	595	688	772	867
<b>Short circuit ratings:</b>														
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)	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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