

**Description:** 19000/33000V, Copper, 1 Core, Type B F2JC...  
**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
<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	14.38	16.50	19.00	21.50	24.00	26.43	31.50	35.00	39.00
Insulation diameter	mm app.	26.50	28.00	30.00	31.00	32.45	34.50	37.00	39.50	43.50	46.11	51.00	55.50	59.50
Cable diameter	mm app.	33.00	35.00	37.00	38.00	40.28	42.00	44.00	47.00	51.00	54.13	60.00	64.00	69.00
<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	1.484	1.694	2.069	2.158	2.647	3.064	3.689	4.439	5.274	6.704	7.986	9.768	11.31
Gross mass ( 500 m )	kg app.	925	1090	1275	1310	1565	2025	2340	2720	3130	4035	4675	5565	6475
Bending radius	mm min.	660	700	740	760	806	840	880	940	1020	1083	1200	1280	1380
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	0.079	0.063	0.050	0.041	0.034	0.030
Reactance	Ω/km	0.149	0.142	0.134	0.126	0.125	0.119	0.113	0.109	0.107	0.105	0.100	0.098	0.096
Impedance	Ω/km	0.516	0.371	0.281	0.233	0.202	0.174	0.149	0.135	0.124	0.116	0.108	0.103	0.100
Capacitance	μF/km	0.166	0.181	0.200	0.220	0.198	0.243	0.267	0.291	0.291	0.316	0.355	0.367	0.399
<b>Current rating:</b>														
In ground	Amps	206	250	300	340	375	427	493	553	622	694	771	846	904
In air in shade	Amps	242	299	364	418	467	538	634	723	829	937	1069	1198	1301
In air in direct sunlight	Amps	192	236	288	330	368	423	498	567	648	731	831	929	1006
<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)	3.0	3.2	3.4	3.5	3.67	3.9	4.2	4.4	4.9	5.1	5.7	6.1	6.6

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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