

**Description:** 19000/33000V, Aluminium, 1 Core, Type B F2JA...  
**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	1.2	1.33	1.51	1.64	1.81	1.97	2.27	2.57	3.07	3.57	4.18	4.86	5.69
Gross mass ( 500 m )	kg app.	835	1025	1115	1185	1265	1460	1605	1805	2060	2590	2910	3250	3800
Bending radius	mm min.	660	700	740	760	806	840	880	940	1020	1083	1200	1280	1380
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	0.161	0.130	0.102	0.080	0.063	0.051	0.043
Reactance	Ω/km	0.149	0.140	0.132	0.126	0.126	0.119	0.113	0.109	0.107	0.105	0.100	0.098	0.096
Impedance	Ω/km	0.835	0.585	0.431	0.348	0.293	0.242	0.197	0.170	0.148	0.132	0.119	0.110	0.105
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	160	195	233	265	293	334	387	435	496	560	633	708	773
In air in shade	Amps	188	232	283	325	364	420	497	568	659	754	875	998	1108
In air in direct sunlight	Amps	149	184	223	257	287	331	391	446	515	588	680	774	857
<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)	3.0	3.2	3.4	3.5	3.7	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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