

Description:	19000/33000V, Copper, 3 Core, Type B	F2JC...
Sheathing:	FRPVC (red stripe)	...001
	LHPVC (blue stripe)	...002
Specification:	SANS 1339	<i>Last updated: October 2016</i>

Size code	...n/a...	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DIMENSIONS									
Conductor size	mm ² nom	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4
Insulation diameter	mm app.	26.5	28.0	29.8	31.5	32.7	34.5	36.9	38.5
Bedding diameter	mm app.	62.3	65.5	69.4	73.1	75.6	79.5	84.7	88.2
Cable diameter	mm app.	69.0	72.5	76.6	80.6	83.4	87.5	93.1	96.8
TECHNICAL DATA									
Normal drum length	m	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	4.762	5.611	6.647	7.612	8.631	9.886	11.910	14.263
Gross mass (300 m)	kg app.	1829	2311	2622	2977	3282	3659	4318	5379
Bending radius	mm min.	1035	1087	1148	1210	1252	1313	1397	1452
DC Resistance @ 20°C	Ω/km	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060
AC Resistance @ 90°C	Ω/km	0.494	0.342	0.247	0.196	0.159	0.128	0.098	0.079
Reactance	Ω/km	0.137	0.129	0.122	0.117	0.114	0.110	0.105	0.103
Impedance	Ω/km	0.512	0.366	0.275	0.228	0.196	0.168	0.144	0.129
Capacitance	μF/km	0.144	0.158	0.174	0.189	0.199	0.215	0.236	0.250
Current rating:									
In ground	Amps	195	237	284	322	360	407	470	527
In air in shade	Amps	223	275	333	383	431	491	574	649
In air in direct sunlight	Amps	194	239	290	332	374	426	497	562
Short circuit ratings:									
Symmetrical (250°C)	kA (1sec)	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2
Earth fault (200°C)	kA (1sec)	3.6	3.8	4.0	4.3	4.4	4.6	4.9	5.1

Ratings above are based on standard laying conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2 Km/W

Soil temperature = 25 °C

Depth of burial = 800 mm

Air temperature = 30 °C

5% tolerance on dimensions

african cables

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