

**Description:** 6350/11000V, Aluminium, 3 Core, Type A F2FA...  
**Bedding/Sheathing:** FRPVC/ SWA/ FRPVC (red stripe) ...111  
 LHPVC/ SWA/ FRPVC(blue stripe) ...212  
**Specification:** SANS 1339

*Last updated: October 2016*

Size code	...n/a...	3016	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300	3400
<b>PHYSICAL DIMENSIONS</b>													
Conductor size	mm <sup>2</sup> nom	16	25	35	50	70	95	120	150	185	240	300	400
Conductor diameter	mm app.	4.8	6.0	7.2	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4	24.3
Insulation diameter	mm app.	13.5	14.7	15.9	17.1	18.6	20.4	22.1	23.3	25.1	27.5	29.1	33.8
Bedding diameter	mm app.	36.6	39.4	42.0	44.8	48.0	52.1	56.0	58.6	62.6	68.0	71.7	82.1
Armour diameter	mm app.	40.6	44.4	47.0	49.8	53.0	57.1	61.0	64.9	68.9	74.3	78.0	88.4
Cable diameter	mm app.	45.3	49.3	52.1	55.1	58.5	62.8	67.1	71.2	75.5	81.3	85.4	96.1
<b>TECHNICAL DATA</b>													
Normal drum length	m	300	300	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	3.3	4.2	4.5	4.9	5.4	6.1	6.8	8.1	8.8	9.9	11.2	13.1
Gross mass ( 300 m )	kg app.	1225	1620	1695	1820	2095	2320	2555	2940	3440	3820	4190	4675
Bending radius	mm min.	543	591	625	661	702	754	805	855	906	976	1025	1154
DC Resistance @ 20°C	Ω/km	1.910	1.200	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.078
AC Resistance @ 90°C	Ω/km	2.449	1.539	1.113	0.822	0.568	0.411	0.325	0.265	0.211	0.162	0.130	0.102
Reactance	Ω/km	0.137	0.128	0.121	0.115	0.107	0.102	0.098	0.095	0.092	0.088	0.086	0.084
Impedance	Ω/km	2.453	1.544	1.120	0.830	0.578	0.423	0.339	0.282	0.230	0.184	0.156	0.132
Capacitance	µF/km	0.191	0.215	0.240	0.265	0.295	0.332	0.366	0.390	0.426	0.475	0.507	0.601
Zero Sequence Resistance	Ω/km	3.917	2.721	2.222	1.864	1.540	1.307	1.160	0.945	0.848	0.748	0.687	0.589
Zero Sequence Reactance	Ω/km	0.154	0.149	0.142	0.137	0.130	0.124	0.120	0.119	0.115	0.110	0.108	0.103
<b>Current rating:</b>													
In ground	Amps	82	105	125	147	179	214	242	270	304	350	391	444
In air in shade	Amps	88	114	137	163	202	243	279	314	358	417	469	545
In air in direct sunlight	Amps	77	100	121	143	177	213	244	274	312	363	408	472
<b>Short circuit ratings:</b>													
Symmetrical (250°C)	kA (1sec)	1.4	2.2	3.0	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9	33.3
Earth fault (200°C)	kA (1sec)	11.9	15.6	16.6	17.6	18.9	20.4	21.9	28.3	30.2	32.6	34.3	39.1

**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
- Single circuit in isolation
- 5% tolerance on dimensions

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**B-BBEE Level 1**

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