

Description: 6350/11000V, Copper, 3 Core, Type A
Bedding/ Armouring/ Sheathing: FRPVC/ SWA/ FRPVC (red stripe)
 LHPVC/ SWA/ LHPVC (blue stripe)
Specification: SANS 1339

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Last updated: October 2016

Size code	...n/a...	3016	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300	3400
PHYSICAL DIMENSIONS													
Conductor size	mm ² 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
TECHNICAL DATA													
Normal drum length	m	300	300	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	3.67	4.51	5.02	5.67	6.65	7.88	8.95	11.0	12.47	14.76	17.23	21.36
Gross mass (300 m)	kg app.	1277	1527	1711	1908	2242	2617	3022	3645	4087	5056	5962	7152
Bending radius	mm min.	543	591	625	661	702	754	805	855	906	976	1025	1154
DC Resistance @ 20°C	Ω/km	1.150	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060	0.047
AC Resistance @ 90°C	Ω/km	1.466	0.927	0.668	0.494	0.342	0.247	0.196	0.159	0.128	0.099	0.080	0.064
Reactance	Ω/km	0.137	0.125	0.117	0.112	0.106	0.100	0.096	0.094	0.091	0.088	0.086	0.084
Impedance	Ω/km	1.473	0.936	0.679	0.506	0.358	0.266	0.219	0.185	0.157	0.132	0.117	0.105
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	2.935	2.109	1.777	1.535	1.313	1.143	1.031	0.839	0.764	0.685	0.636	0.550
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
Current rating:													
In ground	Amps	106	135	161	190	231	275	310	346	387	443	491	550
In air in shade	Amps	113	147	177	211	259	313	358	403	457	529	592	678
In air in direct sunlight	Amps	100	129	156	185	227	274	312	352	398	461	515	588
Short circuit ratings:													
Symmetrical (250°C)	kA (1sec)	2.2	3.4	4.7	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2	52.7
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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