

**Description:** 19000/33000V, Aluminium, 3 Core, Type A  
**Bedding/ 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...	3050	3070	3095	3120	3150	3185	3240	3300
<b>PHYSICAL DIMENSIONS</b>									
Conductor size	mm <sup>2</sup> 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.	65.9	69.2	73.3	77.2	79.7	83.8	89.2	92.9
Armour diameter	mm app.	72.2	75.5	79.6	84.3	86.0	90.1	95.5	100.0
Cable diameter	mm app.	79.2	82.7	87.0	91.8	93.8	98.1	103.9	108.8
<b>TECHNICAL DATA</b>									
Normal drum length	m	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	8.8	9.5	11.0	11.9	12.4	13.3	14.7	16.0
Gross mass ( 300 m )	kg app.	3460	3700	4440	4715	4870	5130	6000	6400
Bending radius	mm min.	951	992	1043	1102	1126	1178	1247	1306
DC Resistance @ 20°C	Ω/km	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100
AC Resistance @ 90°C	Ω/km	0.822	0.568	0.411	0.325	0.265	0.211	0.161	0.130
Reactance	Ω/km	0.140	0.131	0.124	0.118	0.115	0.110	0.106	0.103
Impedance	Ω/km	0.834	0.583	0.429	0.346	0.289	0.238	0.193	0.166
Capacitance	μF/km	0.144	0.158	0.174	0.189	0.199	0.215	0.236	0.250
Zero Sequence Resistance	Ω/km	1.428	1.146	1.001	0.801	0.807	0.728	0.647	0.526
Zero Sequence Reactance	Ω/km	0.151	0.145	0.141	0.136	0.133	0.129	0.125	0.122
<b>Current rating:</b>									
In ground	Amps	146	178	212	241	268	302	347	386
In air in shade	Amps	166	205	247	283	316	359	418	469
In air in direct sunlight	Amps	144	177	213	244	274	310	360	404
<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
Earth fault (200°C)	kA (1sec)	31.7	33.2	39.2	41.2	42.5	44.6	47.4	49.3

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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