

**Description:** 12700/22000V, 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...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
<b>PHYSICAL DIMENSIONS</b>											
Conductor size	mm <sup>2</sup> nom	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	6.0	7.2	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4
Insulation diameter	mm app.	19.0	20.2	21.4	22.9	24.7	26.4	27.6	29.4	31.8	33.4
Bedding diameter	mm app.	49.1	51.7	54.3	57.7	61.8	65.5	68.3	72.4	77.7	81.2
Armour diameter	mm app.	54.1	56.7	59.3	64.0	68.1	71.8	74.6	78.7	84.0	87.5
Cable diameter	mm app.	59.6	62.4	65.2	70.2	74.7	78.5	81.5	86.0	91.6	95.5
<b>TECHNICAL DATA</b>											
Normal drum length	m	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	5.4	5.68	6.09	7.57	8.36	9.11	9.64	10.46	11.69	12.84
Gross mass ( 300 m )	kg app.	1875	2454	2657	3121	3647	3873	4032	3988	4658	5001
Bending radius	mm min.	715	749	782	842	896	942	978	1032	1100	1146
DC Resistance @ 20°C	Ω/km	1.200	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100
AC Resistance @ 90°C	Ω/km	1.539	1.113	0.822	0.568	0.411	0.325	0.265	0.211	0.161	0.130
Reactance	Ω/km	0.142	0.134	0.128	0.119	0.113	0.108	0.105	0.101	0.097	0.095
Impedance	Ω/km	1.545	1.121	0.832	0.580	0.426	0.342	0.285	0.234	0.188	0.161
Capacitance	μF/km	0.154	0.170	0.185	0.205	0.227	0.249	0.264	0.287	0.317	0.337
Zero Sequence Resistance	Ω/km	2.490	2.017	1.682	1.258	1.056	0.934	0.850	0.764	0.676	0.623
Zero Sequence Reactance	Ω/km	0.155	0.148	0.143	0.139	0.134	0.129	0.126	0.122	0.117	0.114
<b>Current rating:</b>											
In ground	Amps	105	125	147	179	213	242	269	303	348	389
In air in shade	Amps	116	139	166	204	246	282	316	358	418	470
In air in direct sunlight	Amps	101	122	144	178	214	245	274	311	362	407
<b>Short circuit ratings:</b>											
Symmetrical (250°C)	kA (1sec)	2.2	3.0	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9
Earth fault (200°C)	kA (1sec)	19.3	20.3	21.3	27.9	29.8	31.5	32.8	34.6	37.1	38.7

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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