

<b>Description:</b>	12700/22000V, Aluminium, 3 Core, Type B	F2HA...
<b>Sheathing:</b>	FRPVC (red stripe) LHPVC (blue stripe)	...001 ...002
<b>Specification:</b>	SANS 1339	<i>Last updated: October 2016</i>

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.	46.0	48.6	51.2	54.4	58.3	62.0	64.6	68.5	73.6	77.1
Cable diameter	mm app.	51.5	54.3	57.1	60.6	64.7	68.5	71.5	75.6	81.2	84.9
<b>TECHNICAL DATA</b>											
Normal drum length	m	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	2.73	2.92	3.19	3.59	3.7	4.150	4.67	5.22	6.067	6.610
Gross mass ( 300 m )	kg app.	1025	1125	1205	1295	1445	1645	1750	2195	2515	2680
Bending radius	mm min.	773	815	857	909	970	1028	1073	1135	1218	1273
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
<b>Current rating:</b>											
In ground	Amps	108	128	151	185	221	251	280	317	367	413
In air in shade	Amps	119	143	171	211	256	295	332	380	446	506
In air in direct sunlight	Amps	104	125	149	185	224	258	289	331	388	440
<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)	2.7	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.3	4.5

**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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**B-BBEE Level 1**

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