

**Description:** 6350/11000V, Aluminium, 3 Core, Type B F2FA...  
**Sheathing:** FRPVC (red stripe) ...001  
 LHPVC (blue stripe) ...002  
**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	20.4
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	29.1
Bedding diameter	mm app.	34.5	37.1	39.7	42.3	45.6	49.0	52.7	55.3	59.2	64.3	67.8	67.8
Cable diameter	mm app.	39.1	41.6	44.4	47.2	50.7	54.5	58.4	61.2	65.3	70.7	74.6	74.6
<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	1.85	1.752	1.940	2.192	2.602	2.814	3.197	3.573	4.115	4.892	5.714	7.151
Gross mass ( 300 m )	kg app.	660	705	765	840	990	1180	1220	1405	1570	1870	2345	2840
Bending radius	mm min.	586	625	667	709	760	818	876	918	980	1061	1119	1119
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	0.138	0.129	0.121	0.116	0.107	0.102	0.098	0.095	0.092	0.088	0.086	0.086
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	0.134
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	0.507
<b>Current rating:</b>													
In ground	Amps	84	109	130	153	187	221	251	281	318	368	414	467
In air in shade	Amps	89	118	142	170	211	252	291	328	377	445	504	569
In air in direct sunlight	Amps	79	104	126	150	186	221	256	288	330	389	440	497
<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)	3.9	4.2	4.5	4.8	5.2	2.8	3.0	3.2	3.4	3.7	3.9	3.9

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

POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

PO Box 172, Vereeniging 1930 | Steel Road, Peacehaven, Vereeniging 1939 | South Africa  
 Tel: +27 16 430 6000 | Fax: +27 16 423 6103 | www.cbi-electric.com

Directors: AE Dickson, GW Eddey, TA Poeo, PJ Banda, Z Mjali  
 Alternate Director: PW de Villiers

**B-BBEE Level 1**

A member of the **REUNERT** Group  
 A division of ATC (Pty) Ltd  
 Registration No. 1955/003773/07

**SABS**  
150 9001

**SABS**  
150 14001

**SABS**  
OHSAS 18001