

Description:	3800/6600V, Aluminium, 3 Core, Type B	F2EA...
Sheathing:	FRPVC (red stripe)	...001
	LHPVC (blue stripe)	...002
Specification:	SANS 1339	<i>Last updated: October 2016</i>

Size code	...n/a...	3016	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DIMENSIONS												
Conductor size	mm ² nom	16	25	35	50	70	95	120	150	185	240	300
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
Insulation diameter	mm app.	11.6	12.8	14.0	15.2	16.7	18.5	20.2	21.4	23.2	25.8	27.8
Bedding diameter	mm app.	30.6	33.1	35.7	38.3	41.6	45.0	48.7	51.3	55.2	60.8	65.1
Cable diameter	mm app.	34.7	37.5	40.2	43.0	46.5	50.2	54.0	56.8	60.9	67.0	71.7
TECHNICAL DATA												
Normal drum length	m	300	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	1.61	1.80	1.960	2.182	2.419	2.91	3.31	3.62	4.08	4.86	5.68
Gross mass (300 m)	kg app.	590	645	695	830	910	1080	1200	1345	1560	1805	2335
Bending radius	mm min.	520	562	604	646	697	752	810	852	914	1004	1076
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
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
Reactance	Ω/km	0.130	0.121	0.115	0.109	0.102	0.096	0.093	0.091	0.087	0.085	0.084
Impedance	Ω/km	2.452	1.543	1.119	0.829	0.577	0.422	0.338	0.280	0.229	0.183	0.155
Capacitance	μF/km	0.239	0.272	0.305	0.338	0.380	0.429	0.475	0.508	0.557	0.601	0.602
Current rating:												
In ground	Amps	85	109	130	153	186	221	251	281	318	369	414
In air in shade	Amps	89	116	140	168	209	250	289	326	375	443	504
In air in direct sunlight	Amps	79	103	124	148	184	220	254	287	329	388	440
Short circuit ratings:												
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
Earth fault (200°C)	kA (1sec)	3.5	3.8	4.1	4.4	4.8	2.6	2.8	3.0	3.2	3.5	3.8

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

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 Eddy, TA Poe, 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
ISO 9001

SABS
ISO 14001

SABS
OHSAS 18001