

Description: 3800/6600V, Copper, 1 Core, Type A
Bedding/Armouring/Sheathing: FRPVC/ AWA/ FRPVC (red stripe)
 LHPVC/ AWA / LHPVC (blue stripe)
Specification: SANS 1339

F2EC...
 ...141
 ...242

Last updated: October 2016

Size code	...n/a...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
PHYSICAL DIMENSIONS														
Conductor size	mm ² nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.50	10.00	12.00	13.50	15.00	16.50	19.00	21.50	24.00	27.50	31.50	35.00	39.00
Insulation diameter	mm app.	15.00	17.00	18.50	20.00	21.50	23.00	26.00	28.50	33.50	37.50	41.50	45.50	50.00
Bedding diameter	mm app.	20.00	21.50	23.50	24.50	26.00	28.00	30.50	33.50	38.00	42.50	46.50	51.00	55.00
Armour diameter	mm app.	23.00	24.50	26.50	28.00	29.50	32.00	34.50	37.50	42.00	47.50	51.50	56.00	60.00
Cable diameter	mm app.	27.00	29.00	31.00	32.00	34.00	37.00	40.00	42.00	47.00	53.00	58.00	62.00	67.00
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	1.263	1.496	1.824	2.098	2.449	2.941	3.537	4.317	5.433	6.729	8.148	10.31	12.21
Gross mass (500 m)	kg app.	736	852	1016	1174	1407	1596	1975	2495	3049	3765	4702	5627	6926
Bending radius	mm min.	540	580	620	640	680	740	800	840	940	1060	1160	1240	1340
DC Resistance @ 20°C	Ω/km	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060	0.047	0.037	0.028	0.022	0.018
AC Resistance @ 90°C	Ω/km	0.494	0.342	0.247	0.196	0.160	0.128	0.099	0.080	0.064	0.052	0.042	0.036	0.031
Reactance	Ω/km	0.136	0.131	0.123	0.115	0.112	0.111	0.107	0.102	0.102	0.101	0.098	0.096	0.094
Impedance	Ω/km	0.512	0.366	0.276	0.228	0.195	0.170	0.145	0.130	0.120	0.113	0.107	0.102	0.099
Capacitance	μF/km	0.523	0.518	0.662	0.722	0.782	0.841	0.831	0.918	0.644	0.672	0.752	0.771	0.797
Zero Sequence Resistance	Ω/km	0.813	0.637	0.519	0.401	0.352	0.300	0.255	0.223	0.189	0.143	0.125	0.111	0.100
Zero Sequence Reactance	Ω/km	0.079	0.073	0.067	0.059	0.055	0.054	0.050	0.048	0.048	0.047	0.044	0.043	0.041
Current rating:														
In ground	Amps	207	250	298	336	372	412	467	519	572	613	659	704	737
In air in shade	Amps	239	295	358	412	463	522	604	686	775	854	936	1022	1089
In air in direct sunlight	Amps	191	236	286	328	368	413	478	542	609	668	730	795	845
Short circuit ratings:														
Symmetrical (250°C)	kA (1sec)	6.40	9.24	12.82	16.18	19.96	24.98	32.83	41.18	52.66	67.62	87.46	112.0	140.6
Earth fault (200°C)	kA (1sec)	9.8	10.5	11.4	12.0	12.7	16.5	18.0	19.6	22.2	30.1	32.8	35.9	38.6

Ratings above are based on standard laying conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

Soil temperature = 25°C

Depth of burial = 800mm

Air temperature = 30°C

5% tolerance on dimensions

Ratings for solid bonded, Trefoil formation

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
 150 9001

SABS
 150 14001

SABS
 OHSAS 18001