

Description:	3800/6600V, Copper, 3 Core, Type A	F2EC...
Bedding/ Armouring/ Sheathing:	FRPVC/SWA/FRPVC (red stripe)	...111
	LHPVC/SWA/LHPVC (blue stripe)	...212
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.	32.6	35.2	37.8	40.6	43.8	47.9	51.8	54.4	58.5	64.3	68.8
Armour diameter	mm app.	36.6	39.2	41.8	45.6	48.8	52.9	56.8	59.4	64.8	70.6	75.1
Cable diameter	mm app.	41.1	43.7	46.5	50.7	54.1	58.4	62.5	65.3	70.9	77.2	82.3
TECHNICAL DATA												
Normal drum length	m	300	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	3.041	3.536	4.007	5.103	6.049	7.272	8.229	9.319	11.54	13.86	16.37
Gross mass (300 m)	kg app.	1016	1236	1377	1706	2021	2428	2805	3132	3809	4787	5605
Bending radius	mm min.	493	524	558	608	650	701	750	784	851	926	988
DC Resistance @ 20°C	Ω/km	1.150	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060
AC Resistance @ 90°C	Ω/km	1.466	0.927	0.668	0.494	0.342	0.247	0.196	0.160	0.128	0.099	0.080
Reactance	Ω/km	0.129	0.118	0.110	0.105	0.100	0.095	0.091	0.089	0.087	0.084	0.084
Impedance	Ω/km	1.472	0.935	0.677	0.505	0.356	0.265	0.216	0.183	0.155	0.130	0.116
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
Zero Sequence Resistance	Ω/km	3.117	2.455	2.090	1.641	1.404	1.220	1.097	1.017	0.808	0.718	0.659
Zero Sequence Reactance	Ω/km	0.152	0.143	0.136	0.133	0.126	0.120	0.116	0.113	0.111	0.107	0.105
Current rating:												
In ground	Amps	107	135	161	190	231	275	311	347	388	444	492
In air in shade	Amps	113	145	175	209	258	311	357	401	456	530	593
In air in direct sunlight	Amps	100	128	154	184	226	273	312	351	398	462	516
Short circuit ratings:												
Symmetrical (250°C)	kA (1sec)	2.2	3.4	4.7	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2
Earth fault (200°C)	kA (1sec)	9.9	11.5	12.3	16.1	17.3	18.8	20.3	21.3	28.2	30.9	33.0

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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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 Poe, PJ Banda, Z Mjali
Alternate Director: PW de Villiers

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