

Description: 3800/6600V, Aluminium, 3 Core, Type A F2EA...
Bedding / Sheathing: FRPVC/ SWA/ FRPVC (red stripe) ...111
 LHPVC/ SWA/ LHPVC (blue stripe) ...212
Specification: SANS 1339

Last updated: October 2016

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	2.9	3.3	3.5	4.4	4.9	5.5	6.2	6.6	8.1	9.3	10.6
Gross mass (300 m)	kg app.	1105	1215	1285	1670	1830	2125	2355	2500	2950	3620	4005
Bending radius	mm min.	493	524	558	608	650	701	750	784	851	926	988
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	0.129	0.120	0.114	0.109	0.101	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
Zero Sequence Resistance	Ω/km	4.100	3.066	2.534	1.969	1.630	1.384	1.227	1.123	0.892	0.782	0.710
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	82	105	125	147	180	214	243	271	305	351	392
In air in shade	Amps	86	112	136	162	200	242	278	313	358	418	470
In air in direct sunlight	Amps	76	99	120	143	176	212	243	273	312	364	409
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)	10.6	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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