

Description: 3800/6600V, Copper, 3 Core, Type B F2EC...
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
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	1.054	1.860	2.220	2.675	3.400	4.039	4.850	5.901	6.918	8.727	10.74
Gross mass (300 m)	kg app.	555.2	662	770	977.5	1202	1418	1661	2027	2407	2965	3850
Bending radius	mm min.	520	562	604	646	697	752	810	852	914	1004	1076
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	0.130	0.118	0.111	0.106	0.100	0.095	0.091	0.089	0.087	0.084	0.084
Impedance	Ω/km	1.472	0.935	0.678	0.505	0.357	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
Current rating:												
In ground	Amps	109	140	167	197	240	285	323	362	408	471	528
In air in shade	Amps	115	149	181	217	269	322	372	420	481	567	642
In air in direct sunlight	Amps	102	132	160	191	237	284	327	369	422	496	561
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)	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

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B-BBEE Level 1

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