

Description:	19000/33000V, Copper, 3 Core, Type A	F2JC...
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...	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DIMENSIONS									
Conductor size	mm ² nom	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4
Insulation diameter	mm app.	26.5	28.0	29.8	31.5	32.7	34.5	36.9	38.5
Bedding diameter	mm app.	65.9	69.2	73.3	77.2	79.7	83.8	89.2	92.9
Armour diameter	mm app.	72.2	75.5	79.6	84.3	86.0	90.1	95.5	100.0
Cable diameter	mm app.	79.2	82.7	87.0	91.8	93.8	98.1	103.9	108.8
TECHNICAL DATA									
Normal drum length	m	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	9.911	11.043	12.821	14.046	15.330	16.930	19.449	25.221
Gross mass (300 m)	kg app.	3601	4006	4318	4959	5344	5772	6565	8311
Bending radius	mm min.	951	992	1043	1102	1126	1178	1247	1306
DC Resistance @ 20°C	Ω/km	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060
AC Resistance @ 90°C	Ω/km	0.494	0.342	0.247	0.196	0.159	0.128	0.098	0.079
Reactance	Ω/km	0.137	0.129	0.122	0.117	0.114	0.110	0.105	0.103
Impedance	Ω/km	0.512	0.366	0.275	0.228	0.196	0.168	0.144	0.129
Capacitance	μF/km	0.144	0.158	0.174	0.189	0.199	0.215	0.236	0.250
Zero Sequence Resistance	Ω/km	1.100	0.920	0.836	0.672	0.702	0.644	0.583	0.475
Zero Sequence Reactance	Ω/km	0.151	0.145	0.141	0.136	0.133	0.129	0.125	0.122
Current rating:									
In ground	Amps	189	229	273	308	343	385	440	485
In air in shade	Amps	214	263	317	362	406	459	531	592
In air in direct sunlight	Amps	186	228	274	313	351	396	458	511
Short circuit ratings:									
Symmetrical (250°C)	kA (1sec)	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2
Earth fault (200°C)	kA (1sec)	31.7	33.2	39.2	41.2	42.5	44.6	47.4	49.3

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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