

Description:	19000/33000V, Aluminium, 3 Core, Type B	F2JA...
Sheathing:	FRPVC (red stripe) LHPVC (blue stripe)	...001 ...002
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.	62.3	65.5	69.4	73.1	75.6	79.5	84.7	88.2
Cable diameter	mm app.	69.0	72.5	76.6	80.6	83.4	87.5	93.1	96.8
TECHNICAL DATA									
Normal drum length	m	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	4.18	4.63	5.13	5.70	6.08	6.64	7.57	8.41
Gross mass (300 m)	kg app.	1550	1935	2100	2330	2480	2650	3020	3645
Bending radius	mm min.	1035	1087	1148	1210	1252	1313	1397	1452
DC Resistance @ 20°C	Ω/km	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100
AC Resistance @ 90°C	Ω/km	0.822	0.568	0.411	0.325	0.265	0.211	0.161	0.130
Reactance	Ω/km	0.140	0.131	0.124	0.118	0.115	0.110	0.106	0.103
Impedance	Ω/km	0.834	0.583	0.429	0.346	0.289	0.238	0.193	0.166
Capacitance	μF/km	0.144	0.158	0.174	0.189	0.199	0.215	0.236	0.250
Current rating:									
In ground	Amps	151	184	220	251	280	316	366	412
In air in shade	Amps	173	213	258	297	334	382	448	507
In air in direct sunlight	Amps	150	186	225	258	290	331	388	439
Short circuit ratings:									
Symmetrical (250°C)	kA (1sec)	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9
Earth fault (200°C)	kA (1sec)	3.6	3.8	4.0	4.3	4.4	4.6	4.9	5.1

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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