

Description:	12700/22000V, Copper, 3 Core, Type B	F2HC...
Sheathing:	FRPVC (red stripe)	...001
	LHPVC (blue stripe)	...002
Specification:	SANS 1339	<i>Last updated: October 2016</i>

Size code	...n/a...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DATA											
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	6.0	7.2	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4
Insulation diameter	mm app.	19.0	20.2	21.4	22.9	24.7	26.4	27.6	29.4	31.8	33.4
Bedding diameter	mm app.	46.0	48.6	51.2	54.4	58.3	62.0	64.6	68.5	73.6	77.1
Cable diameter	mm app.	51.5	54.3	57.1	60.6	64.7	68.5	71.5	75.6	81.2	84.9
TECHNICAL DATA											
Normal drum length	m	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	2.714	3.007	3.746	4.463	5.430	6.356	7.406	8.657	10.28	12.667
Gross mass (300 m)	kg app.	1020	1240	1370	1675	1965	2310	2570	3225	3780	4495
Bending radius	mm min.	773	815	857	909	970	1028	1073	1135	1218	1273
DC Resistance @ 20°C	Ω/km	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	0.927	0.668	0.494	0.342	0.247	0.196	0.159	0.128	0.098	0.079
Reactance	Ω/km	0.139	0.131	0.124	0.117	0.111	0.107	0.104	0.100	0.096	0.094
Impedance	Ω/km	0.938	0.681	0.509	0.362	0.271	0.223	0.190	0.162	0.138	0.123
Capacitance	μF/km	0.154	0.170	0.185	0.205	0.227	0.249	0.264	0.287	0.317	0.337
Current rating:											
In ground	Amps	139	165	195	238	284	323	361	407	470	527
In air in shade	Amps	153	185	220	272	330	380	427	488	571	647
In air in direct sunlight	Amps	134	162	193	238	288	332	373	425	497	562
Short circuit ratings:											
Symmetrical (250°C)	kA (1sec)	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)	2.7	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.3	4.5

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

african cables

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B-BBEE Level 1

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