

Description:	12700/22000V, Aluminium, 1 Core, Type B	F2HA...
Sheathing:	FRPVC (red stripe)	...081
	LHPVC (blue stripe)	...082
Specification:	SANS 1339	

Last updated: October 2016

Size code	...n/a...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
PHYSICAL DIMENSIONS														
Conductor size	mm ² nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.50	10.00	12.00	13.50	15.00	16.50	19.00	21.50	24.00	27.50	31.50	35.00	39.00
Insulation diameter	mm app.	21.00	23.00	24.50	26.00	27.50	29.50	32.00	34.00	38.50	42.00	46.00	50.50	54.50
Cable diameter	mm app.	28.00	30.00	32.00	33.00	35.00	37.00	39.00	41.00	46.00	50.00	54.00	59.00	63.00
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	0.99	1.12	1.27	1.42	1.55	1.61	1.88	2.14	2.6	3.06	3.64	4.32	5.08
Gross mass (500 m)	kg app.	725	790	870	940	1010	1165	1300	1430	1805	2055	2345	2960	3365
Bending radius	mm min.	560	600	640	660	700	740	780	820	920	1000	1080	1180	1260
DC Resistance @ 20°C	Ω/km	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.078	0.061	0.047	0.037	0.029
AC Resistance @ 90°C	Ω/km	0.822	0.568	0.411	0.325	0.265	0.211	0.161	0.130	0.102	0.080	0.064	0.052	0.043
Reactance	Ω/km	0.139	0.130	0.123	0.117	0.114	0.111	0.105	0.101	0.101	0.097	0.094	0.093	0.090
Impedance	Ω/km	0.834	0.583	0.429	0.345	0.288	0.238	0.193	0.164	0.143	0.126	0.113	0.106	0.100
Capacitance	μF/km	0.231	0.243	0.283	0.305	0.328	0.336	0.371	0.424	0.391	0.434	0.483	0.488	0.533
Current rating:														
In ground	Amps	159	194	232	264	295	333	387	436	495	562	635	706	774
In air in shade	Amps	183	228	277	320	362	415	492	565	655	758	878	994	1113
In air in direct sunlight	Amps	146	182	221	255	288	329	389	446	515	594	686	774	865
Short circuit ratings:														
Symmetrical (250°C)	kA (1sec)	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9	33.3	42.8	55.2	70.6	89.0
Earth fault (200°C)	kA (1sec)	2.5	2.7	2.8	3.0	3.2	3.4	3.6	3.8	4.3	4.7	5.1	5.6	6.0

Ratings above are based on standard laying conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

Soil temperature = 25°C

Depth of burial = 800mm

Air temperature = 30°C

5% tolerance on dimensions

Ratings for solid bonded, Trefoil formation

african cables

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B-BBEE Level 1

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