

Description: 12700/22000V, Copper, 1 Core, Type B F2HC...
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	1.029	1.229	1.815	2.115	2.424	2.700	3.340	3.984	4.928	5.986	7.457	9.542	11.64
Gross mass (500 m)	kg app.	745	765	1090	1275	1429	1567	1887	2261	2866	3434	4170	5572	6639
Bending radius	mm min.	560	600	640	660	700	740	780	820	920	1000	1080	1180	1260
DC Resistance @ 20°C	Ω/km	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060	0.047	0.037	0.028	0.022	0.018
AC Resistance @ 90°C	Ω/km	0.494	0.342	0.247	0.196	0.159	0.128	0.098	0.079	0.063	0.051	0.042	0.035	0.030
Reactance	Ω/km	0.139	0.133	0.125	0.117	0.113	0.111	0.105	0.101	0.101	0.097	0.094	0.093	0.090
Impedance	Ω/km	0.513	0.367	0.277	0.228	0.195	0.169	0.144	0.128	0.119	0.110	0.102	0.099	0.095
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	205	250	299	339	379	426	493	553	621	694	771	841	902
In air in shade	Amps	236	293	357	411	466	531	628	717	823	939	1070	1188	1301
In air in direct sunlight	Amps	189	234	284	327	369	421	496	566	646	736	836	925	1011
Short circuit ratings:														
Symmetrical (250°C)	kA (1sec)	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2	52.7	67.6	87.5	112.0	140.6
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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