

Description:	12700/22000V, Aluminium, 1 Core, Type A	F2HA...
Bedding/ Sheathing:	FRPVC/AWA/FRPVC (red stripe)	...141
	LHPVC/AWA/LHPVC (blue stripe)	...242
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.	8.35	10.05	11.90	13.25	14.70	16.23	18.46	20.75	24.05	27.42	30.45	34.25	38.81
Insulation diameter	mm app.	21.33	23.03	24.88	26.23	27.68	29.21	31.44	33.73	37.83	41.98	45.01	48.81	53.37
Bedding diameter	mm app.	26.18	27.88	29.73	31.08	32.53	34.06	36.29	38.78	42.88	47.24	50.27	54.27	59.04
Armour diameter	mm app.	29.38	31.88	33.73	35.08	36.53	38.06	40.29	43.78	47.88	52.24	55.27	59.27	64.04
Cable diameter	mm app.	34.26	36.76	38.81	40.16	41.82	43.35	45.78	49.48	53.79	58.35	61.79	66.00	70.97
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	1.37	1.60	1.80	1.94	2.12	2.31	2.6	3.11	3.72	4.22	4.93	5.72	6.65
Gross mass (500 m)	kg app.	920	1165	1265	1335	1420	1625	1805	2075	2385	2915	3285	3760	4275
Bending radius	mm min.	685	735	776	803	836	867	916	990	1076	1167	1236	1320	1419
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	0.152	0.142	0.135	0.131	0.127	0.122	0.117	0.115	0.110	0.107	0.104	0.101	0.098
Impedance	Ω/km	0.836	0.586	0.432	0.350	0.293	0.244	0.200	0.173	0.150	0.134	0.122	0.113	0.107
Capacitance	µF/km	0.185	0.206	0.230	0.247	0.265	0.285	0.313	0.341	0.361	0.444	0.481	0.529	0.585
Zero Sequence Resistance	Ω/km	1.074	0.761	0.592	0.498	0.431	0.370	0.310	0.243	0.204	0.173	0.150	0.131	0.115
Zero Sequence Reactance	Ω/km	0.096	0.086	0.079	0.075	0.071	0.067	0.062	0.060	0.056	0.054	0.051	0.048	0.045
Current rating:														
In ground	Amps	160	196	232	263	292	328	376	416	467	521	574	625	671
In air in shade	Amps	189	236	286	327	368	419	488	552	634	722	809	899	987
In air in direct sunlight	Amps	150	187	226	258	290	330	383	432	495	562	629	697	763
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)	11.5	15.1	16.0	16.7	17.5	18.3	19.4	25.7	28.2	31.0	32.9	35.4	38.4

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

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