

Description: 12700/22000V, Copper, 3 Core, Type A
Bedding/ Armouring/ Sheathing: FRPVC/SWA/FRPVC (red stripe)
 LHPVC/SWA/LHPVC (blue stripe)
Specification: SANS 1339

F2HC...
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Last updated: October 2016

Size code	...n/a...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DIMENSIONS											
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.	49.1	51.7	54.3	57.7	61.8	65.5	68.3	72.4	77.7	81.2
Armour diameter	mm app.	54.1	56.7	59.3	64.0	68.1	71.8	74.6	78.7	84.0	87.5
Cable diameter	mm app.	59.6	62.4	65.2	70.2	74.7	78.5	81.5	86.0	91.6	95.5
TECHNICAL DATA											
Normal drum length	m	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	5.871	6.336	6.986	8.890	10.27	12.66	12.61	14.27	16.81	19.49
Gross mass (300 m)	kg app.	1987	2237	2432	3014	3427	4427	4410	4753	5789	6591
Bending radius	mm min.	715	749	782	842	896	942	978	1032	1100	1146
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
Zero Sequence Resistance	Ω/km	1.879	1.572	1.354	1.032	0.892	0.805	0.744	0.680	0.613	0.571
Zero Sequence Reactance	Ω/km	0.155	0.148	0.143	0.139	0.134	0.129	0.126	0.122	0.117	0.114
Current rating:											
In ground	Amps	135	161	190	230	274	310	344	385	441	490
In air in shade	Amps	149	179	213	263	316	362	405	457	530	594
In air in direct sunlight	Amps	130	157	186	229	275	314	352	397	459	514
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)	19.3	20.3	21.3	27.9	29.8	31.5	32.8	34.6	37.1	38.7

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

Single circuit in isolation

5% tolerance on dimensions

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