

Description: 6350/11000V, Copper, 1 Core, Type A
Bedding/Armouring/Sheathing: FRPVC/AWA/ FRPVC (red stripe)
 LHPVC/AWA/ LHPVC (blue stripe)
Specification: SANS 1339

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 ...242

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.	17.02	18.72	20.57	21.92	23.37	24.90	27.13	29.42	33.52	37.67	40.70	44.50	49.06
Bedding diameter	mm app.	21.87	23.57	25.42	26.77	28.22	29.75	31.98	34.27	38.37	42.73	45.96	49.76	54.53
Armour diameter	mm app.	25.07	26.77	28.62	29.97	32.22	33.75	35.98	38.27	42.37	47.73	50.96	54.76	59.53
Cable diameter	mm app.	29.54	31.45	33.30	34.85	37.31	38.84	41.27	43.56	48.07	53.63	57.07	61.08	66.25
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	1.353	1.634	1.955	2.258	2.692	3.096	3.743	4.417	5.527	6.936	8.481	10.35	12.61
Gross mass (500 m)	kg app.	780.5	921	1160	1311	1552	1742	2208	2466	3096	3868	4869	5645	6886
Bending radius	mm min.	591	629	666	697	746	777	825	871	961	1073	1141	1222	1325
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	0.080	0.064	0.052	0.042	0.036	0.031
Reactance	Ω/km	0.143	0.135	0.128	0.122	0.119	0.115	0.111	0.107	0.103	0.102	0.099	0.096	0.093
Impedance	Ω/km	0.514	0.368	0.278	0.231	0.199	0.172	0.148	0.133	0.121	0.114	0.108	0.103	0.098
Capacitance	μF/km	0.264	0.298	0.336	0.363	0.392	0.423	0.468	0.514	0.596	0.679	0.739	0.815	0.906
Zero Sequence Resistance	Ω/km	0.793	0.621	0.506	0.442	0.349	0.308	0.266	0.236	0.203	0.152	0.135	0.120	0.108
Zero Sequence Reactance	Ω/km	0.085	0.078	0.072	0.065	0.062	0.059	0.055	0.052	0.049	0.048	0.045	0.043	0.040
Current rating:														
In ground	Amps	206	251	298	336	371	414	470	519	574	617	665	707	742
In air in shade	Amps	241	298	361	412	465	526	608	684	775	857	941	1023	1095
In air in direct sunlight	Amps	192	237	287	327	368	416	480	539	609	670	734	796	850
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)	9.7	10.4	11.1	11.7	15.3	16.0	17.2	18.4	20.5	28.1	30.2	32.5	35.5

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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