

Description: 6350/11000V, Aluminium, 1 Core, Type A F2FA...
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.	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	1.07	1.22	1.37	1.52	1.78	1.95	2.23	2.51	3.08	3.74	4.41	5.12	60.6
Gross mass (500 m)	kg app.	710	830	910	980	1110	1320	1460	1600	2015	2360	2695	3315	3850
Bending radius	mm min.	591	629	666	697	746	777	825	871	961	1073	1141	1222	1325
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	0.162	0.130	0.102	0.081	0.064	0.052	0.044
Reactance	Ω/km	0.143	0.133	0.126	0.122	0.119	0.115	0.111	0.107	0.103	0.102	0.099	0.096	0.093
Impedance	Ω/km	0.834	0.584	0.429	0.347	0.291	0.241	0.196	0.168	0.145	0.130	0.118	0.109	0.103
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	1.122	0.847	0.670	0.571	0.455	0.392	0.330	0.287	0.242	0.182	0.158	0.138	0.121
Zero Sequence Reactance	Ω/km	0.085	0.075	0.069	0.065	0.063	0.059	0.055	0.052	0.049	0.048	0.045	0.043	0.040
Current rating:														
In ground	Amps	160	196	233	263	293	329	377	420	473	521	573	624	668
In air in shade	Amps	187	233	282	323	366	417	486	552	636	720	807	897	981
In air in direct sunlight	Amps	149	185	224	257	290	330	383	435	499	563	630	698	761
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 (180°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



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

PO Box 172, Vereeniging 1930 | Steel Road, Peacehaven, Vereeniging 1939 | South Africa
 Tel: +27 16 430 6000 | Fax: +27 16 423 6103 | www.cbi-electric.com

Directors: AE Dickson, GW Eddy, TA Poe, PJ Banda, Z Mjali
 Alternate Director: PW de Villiers

B-BBEE Level 1

A member of the **REUNERT** Group
 A division of ATC (Pty) Ltd
 Registration No. 1955/003773/07

