

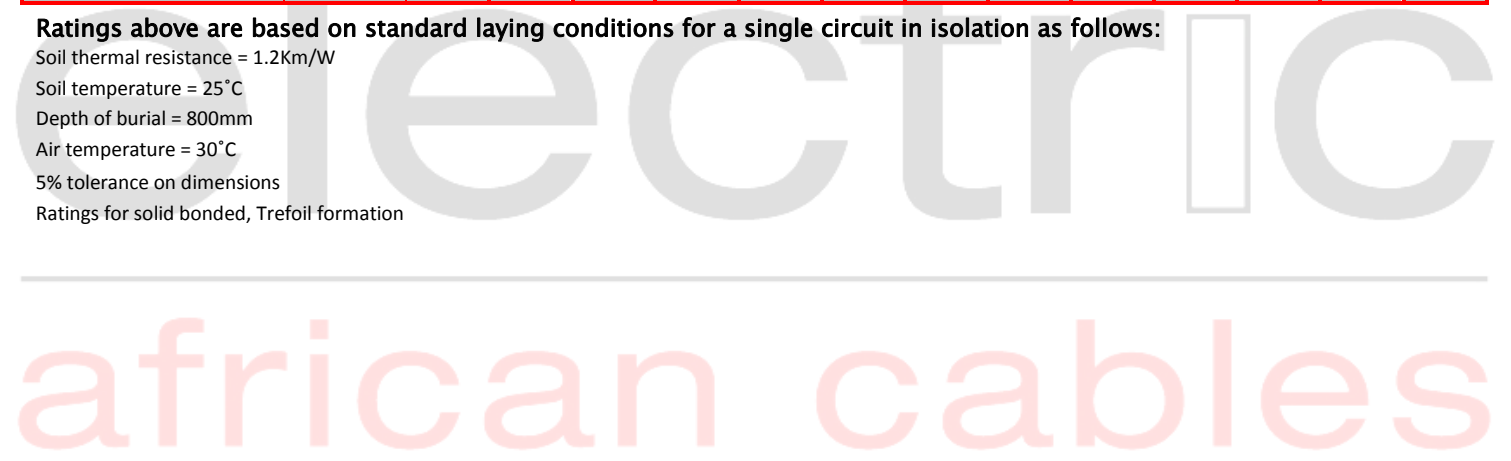
Description: 19000/33000V, Aluminium, 1 Core, Type A F2JA...
Bedding/ Sheathing: FRPVC/AWA/FRPVC (red stripe) ...141
 LHPVC/AWA/LHPVC (blue stripe) ...242
Specification: SANS 1339

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	26.43	30.45	34.25	38.81
Insulation diameter	mm app.	26.45	28.15	30.00	31.35	32.80	34.33	36.56	38.85	42.95	46.11	50.13	53.93	58.49
Bedding diameter	mm app.	31.30	33.00	34.85	36.20	37.86	39.39	41.62	44.11	48.21	51.58	55.60	59.60	64.37
Armour diameter	mm app.	36.30	37.00	38.85	40.20	42.86	44.39	46.62	49.11	53.21	56.58	60.60	65.90	70.67
Cable diameter	mm app.	40.59	42.29	44.35	45.70	48.56	50.29	52.52	55.22	59.53	63.10	67.32	73.04	78.01
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	1.88	2.03	2.25	2.40	2.78	3.01	3.30	3.68	4.34	4.87	5.58	6.76	7.78
Gross mass (500 m)	kg app.	1305	1490	1595	1700	1910	2025	2175	2640	2990	3255	3740	4330	5490
Bending radius	mm min.	812	846	887	914	971	1006	1050	1104	1191	1262	1346	1461	1560
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	0.063	0.051	0.043
Reactance	Ω/km	0.163	0.151	0.144	0.139	0.136	0.131	0.126	0.122	0.117	0.114	0.110	0.107	0.104
Impedance	Ω/km	0.838	0.588	0.435	0.353	0.298	0.248	0.205	0.178	0.155	0.140	0.127	0.119	0.112
Capacitance	µF/km	0.144	0.159	0.176	0.188	0.200	0.214	0.233	0.253	0.289	0.316	0.351	0.383	0.422
Zero Sequence Resistance	Ω/km	0.937	0.732	0.566	0.475	0.381	0.323	0.267	0.229	0.193	0.165	0.142	0.109	0.095
Zero Sequence Reactance	Ω/km	0.107	0.096	0.088	0.084	0.081	0.076	0.071	0.067	0.063	0.061	0.057	0.054	0.051
Current rating:														
In ground	Amps	160	195	232	262	291	326	373	415	467	518	574	619	666
In air in shade	Amps	192	238	287	328	370	420	488	552	634	716	812	896	986
In air in direct sunlight	Amps	151	187	225	257	289	328	381	430	493	555	628	691	759
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)	16.8	17.7	18.7	19.4	25.1	26.0	27.4	29.0	31.6	33.7	36.2	31.6	34.1

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 Eddey, TA Poeo, 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

