

33kV XLPE Aluminium Технические характеристики



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

Size code	...n/a...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
PHYSICAL DIMENSIONS														
Conductor size	mmI 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

Description: 19000/33000V, Aluminium, 1 Core, Type F2JA...
Sheathing: B FRPVC (red stripe) ...081
 LHPVC (blue stripe) ...082
Specification: SANS 1339

Size code	...n/a...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
PHYSICAL DIMENSIONS														
Conductor size	mmi nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.50	10.00	12.00	13.50	14.38	16.50	19.00	21.50	24.00	26.43	31.50	35.00	39.00
Insulation diameter	mm app.	26.50	28.00	30.00	31.00	32.45	34.50	37.00	39.50	43.50	46.11	51.00	55.50	59.50
Cable diameter	mm app.	33.00	35.00	37.00	38.00	40.28	42.00	44.00	47.00	51.00	54.13	60.00	64.00	69.00
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	1.2	1.33	1.51	1.64	1.81	1.97	2.27	2.57	3.07	3.57	4.18	4.86	5.69
Gross mass (500 m)	kg app.	835	1025	1115	1185	1265	1460	1605	1805	2060	2590	2910	3250	3800
Bending radius	mm min.	660	700	740	760	806	840	880	940	1020	1083	1200	1280	1380
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	0.149	0.140	0.132	0.126	0.126	0.119	0.113	0.109	0.107	0.105	0.100	0.098	0.096
Impedance	Ω/km	0.835	0.585	0.431	0.348	0.293	0.242	0.197	0.170	0.148	0.132	0.119	0.110	0.105
Capacitance	µF/km	0.166	0.181	0.200	0.220	0.198	0.243	0.267	0.291	0.291	0.316	0.355	0.367	0.399
Current rating:														
In ground	Amps	160	195	233	265	293	334	387	435	496	560	633	708	773
In air in shade	Amps	188	232	283	325	364	420	497	568	659	754	875	998	1108
In air in direct sunlight	Amps	149	184	223	257	287	331	391	446	515	588	680	774	857
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)	3.0	3.2	3.4	3.5	3.7	3.9	4.2	4.4	4.9	5.1	5.7	6.1	6.6

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

Description:	19000/33000V, Aluminium, 3 Core, Type	F2JA...
Bedding/ Sheathing:	A FRPVC/ SWA/ FRPVC (red stripe)	...111
Specification:	LHPVC/ SWA/ LHPVC (blue stripe)	...212
	SANS 1339	

Size code	...n/a...	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DIMENSIONS									
Conductor size	mmI nom	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4
Insulation diameter	mm app.	26.5	28.0	29.8	31.5	32.7	34.5	36.9	38.5
Bedding diameter	mm app.	65.9	69.2	73.3	77.2	79.7	83.8	89.2	92.9
Armour diameter	mm app.	72.2	75.5	79.6	84.3	86.0	90.1	95.5	100.0
Cable diameter	mm app.	79.2	82.7	87.0	91.8	93.8	98.1	103.9	108.8
TECHNICAL DATA									
Normal drum length	m	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	8.8	9.5	11.0	11.9	12.4	13.3	14.7	16.0
Gross mass (300 m)	kg app.	3460	3700	4440	4715	4870	5130	6000	6400
Bending radius	mm min.	951	992	1043	1102	1126	1178	1247	1306
DC Resistance @ 20°C	Ω/km	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100
AC Resistance @ 90°C	Ω/km	0.822	0.568	0.411	0.325	0.265	0.211	0.161	0.130
Reactance	Ω/km	0.140	0.131	0.124	0.118	0.115	0.110	0.106	0.103
Impedance	Ω/km	0.834	0.583	0.429	0.346	0.289	0.238	0.193	0.166
Capacitance	μF/km	0.144	0.158	0.174	0.189	0.199	0.215	0.236	0.250
Zero Sequence Resistance	Ω/km	1.428	1.146	1.001	0.801	0.807	0.728	0.647	0.526
Zero Sequence Reactance	Ω/km	0.151	0.145	0.141	0.136	0.133	0.129	0.125	0.122
Current rating:									
In ground	Amps	146	178	212	241	268	302	347	386
In air in shade	Amps	166	205	247	283	316	359	418	469
In air in direct sunlight	Amps	144	177	213	244	274	310	360	404
Short circuit ratings:									
Symmetrical (250°C)	kA (1sec)	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9
Earth fault (200°C)	kA (1sec)	31.7	33.2	39.2	41.2	42.5	44.6	47.4	49.3

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

Description:	19000/33000V, Aluminium, 3 Core, Type	F2JA...
Sheathing:	B FRPVC (red stripe)	...001
	LHPVC (blue stripe)	...002
Specification:	SANS 1339	

Size code	...n/a...	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DIMENSIONS									
Conductor size	mmI nom	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4
Insulation diameter	mm app.	26.5	28.0	29.8	31.5	32.7	34.5	36.9	38.5
Bedding diameter	mm app.	62.3	65.5	69.4	73.1	75.6	79.5	84.7	88.2
Cable diameter	mm app.	69.0	72.5	76.6	80.6	83.4	87.5	93.1	96.8
TECHNICAL DATA									
Normal drum length	m	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	4.18	4.63	5.13	5.70	6.08	6.64	7.57	8.41
Gross mass (300 m)	kg app.	1550	1935	2100	2330	2480	2650	3020	3645
Bending radius	mm min.	1035	1087	1148	1210	1252	1313	1397	1452
DC Resistance @ 20°C	Ω/km	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100
AC Resistance @ 90°C	Ω/km	0.822	0.568	0.411	0.325	0.265	0.211	0.161	0.130
Reactance	Ω/km	0.140	0.131	0.124	0.118	0.115	0.110	0.106	0.103
Impedance	Ω/km	0.834	0.583	0.429	0.346	0.289	0.238	0.193	0.166
Capacitance	μF/km	0.144	0.158	0.174	0.189	0.199	0.215	0.236	0.250
Current rating:									
In ground	Amps	151	184	220	251	280	316	366	412
In air in shade	Amps	173	213	258	297	334	382	448	507
In air in direct sunlight	Amps	150	186	225	258	290	331	388	439
Short circuit ratings:									
Symmetrical (250°C)	kA (1sec)	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9
Earth fault (200°C)	kA (1sec)	3.6	3.8	4.0	4.3	4.4	4.6	4.9	5.1

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

5% tolerance on dimensions

african cables

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Единый адрес для всех регионов: ccr@nt-rt.ru || www.cbi-electric.nt-rt.ru