

22kV XLPE Aluminium Технические характеристики



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Description: 12700/22000V, Aluminium, 1 Core, Type F2HA...
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	27.42	30.45	34.25	38.81
Insulation diameter	mm app.	21.33	23.03	24.88	26.23	27.68	29.21	31.44	33.73	37.83	41.98	45.01	48.81	53.37
Bedding diameter	mm app.	26.18	27.88	29.73	31.08	32.53	34.06	36.29	38.78	42.88	47.24	50.27	54.27	59.04
Armour diameter	mm app.	29.38	31.88	33.73	35.08	36.53	38.06	40.29	43.78	47.88	52.24	55.27	59.27	64.04
Cable diameter	mm app.	34.26	36.76	38.81	40.16	41.82	43.35	45.78	49.48	53.79	58.35	61.79	66.00	70.97
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	1.37	1.60	1.80	1.94	2.12	2.31	2.6	3.11	3.72	4.22	4.93	5.72	6.65
Gross mass (500 m)	kg app.	920	1165	1265	1335	1420	1625	1805	2075	2385	2915	3285	3760	4275
Bending radius	mm min.	685	735	776	803	836	867	916	990	1076	1167	1236	1320	1419
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	0.064	0.052	0.043
Reactance	Ω/km	0.152	0.142	0.135	0.131	0.127	0.122	0.117	0.115	0.110	0.107	0.104	0.101	0.098
Impedance	Ω/km	0.836	0.586	0.432	0.350	0.293	0.244	0.200	0.173	0.150	0.134	0.122	0.113	0.107
Capacitance	µF/km	0.185	0.206	0.230	0.247	0.265	0.285	0.313	0.341	0.361	0.444	0.481	0.529	0.585
Zero Sequence Resistance	Ω/km	1.074	0.761	0.592	0.498	0.431	0.370	0.310	0.243	0.204	0.173	0.150	0.131	0.115
Zero Sequence Reactance	Ω/km	0.096	0.086	0.079	0.075	0.071	0.067	0.062	0.060	0.056	0.054	0.051	0.048	0.045
Current rating:														
In ground	Amps	160	196	232	263	292	328	376	416	467	521	574	625	671
In air in shade	Amps	189	236	286	327	368	419	488	552	634	722	809	899	987
In air in direct sunlight	Amps	150	187	226	258	290	330	383	432	495	562	629	697	763
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)	11.5	15.1	16.0	16.7	17.5	18.3	19.4	25.7	28.2	31.0	32.9	35.4	38.4

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:	12700/22000V, Aluminium, 3 Core, Type	F2HA...
Sheathing:	B FRPVC (red stripe)	...001
	LHPVC (blue stripe)	...002
Specification:	SANS 1339	

Size code	...n/a...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DIMENSIONS											
Conductor size	mmI 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.	46.0	48.6	51.2	54.4	58.3	62.0	64.6	68.5	73.6	77.1
Cable diameter	mm app.	51.5	54.3	57.1	60.6	64.7	68.5	71.5	75.6	81.2	84.9
TECHNICAL DATA											
Normal drum length	m	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	2.73	2.92	3.19	3.59	3.7	4.150	4.67	5.22	6.067	6.610
Gross mass (300 m)	kg app.	1025	1125	1205	1295	1445	1645	1750	2195	2515	2680
Bending radius	mm min.	773	815	857	909	970	1028	1073	1135	1218	1273
DC Resistance @ 20°C	Ω/km	1.200	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100
AC Resistance @ 90°C	Ω/km	1.539	1.113	0.822	0.568	0.411	0.325	0.265	0.211	0.161	0.130
Reactance	Ω/km	0.142	0.134	0.128	0.119	0.113	0.108	0.105	0.101	0.097	0.095
Impedance	Ω/km	1.545	1.121	0.832	0.580	0.426	0.342	0.285	0.234	0.188	0.161
Capacitance	μF/km	0.154	0.170	0.185	0.205	0.227	0.249	0.264	0.287	0.317	0.337
Current rating:											
In ground	Amps	108	128	151	185	221	251	280	317	367	413
In air in shade	Amps	119	143	171	211	256	295	332	380	446	506
In air in direct sunlight	Amps	104	125	149	185	224	258	289	331	388	440
Short circuit ratings:											
Symmetrical (250°C)	kA (1sec)	2.2	3.0	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9
Earth fault (200°C)	kA (1sec)	2.7	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.3	4.5

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

Description:	12700/22000V, Aluminium, 3 Core, Type	F2HA...
Bedding/ Sheathing:	A FRPVC/ SWA/ FRPVC (red stripe)	...111
Specification:	LHPVC/ SWA/ LHPVC (blue stripe)	...212
	SANS 1339	

Size code	...n/a...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DIMENSIONS											
Conductor size	mmI 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	5.4	5.68	6.09	7.57	8.36	9.11	9.64	10.46	11.69	12.84
Gross mass (300 m)	kg app.	1875	2454	2657	3121	3647	3873	4032	3988	4658	5001
Bending radius	mm min.	715	749	782	842	896	942	978	1032	1100	1146
DC Resistance @ 20°C	Ω/km	1.200	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100
AC Resistance @ 90°C	Ω/km	1.539	1.113	0.822	0.568	0.411	0.325	0.265	0.211	0.161	0.130
Reactance	Ω/km	0.142	0.134	0.128	0.119	0.113	0.108	0.105	0.101	0.097	0.095
Impedance	Ω/km	1.545	1.121	0.832	0.580	0.426	0.342	0.285	0.234	0.188	0.161
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	2.490	2.017	1.682	1.258	1.056	0.934	0.850	0.764	0.676	0.623
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	105	125	147	179	213	242	269	303	348	389
In air in shade	Amps	116	139	166	204	246	282	316	358	418	470
In air in direct sunlight	Amps	101	122	144	178	214	245	274	311	362	407
Short circuit ratings:											
Symmetrical (250°C)	kA (1sec)	2.2	3.0	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9
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

Description:	12700/22000V, Aluminium, 3 Core, Type	F2HA...
Sheathing:	B FRPVC (red stripe)	...001
	LHPVC (blue stripe)	...002
Specification:	SANS 1339	

Size code	...n/a...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DIMENSIONS											
Conductor size	mmI 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.	46.0	48.6	51.2	54.4	58.3	62.0	64.6	68.5	73.6	77.1
Cable diameter	mm app.	51.5	54.3	57.1	60.6	64.7	68.5	71.5	75.6	81.2	84.9
TECHNICAL DATA											
Normal drum length	m	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	2.73	2.92	3.19	3.59	3.7	4.150	4.67	5.22	6.067	6.610
Gross mass (300 m)	kg app.	1025	1125	1205	1295	1445	1645	1750	2195	2515	2680
Bending radius	mm min.	773	815	857	909	970	1028	1073	1135	1218	1273
DC Resistance @ 20°C	Ω/km	1.200	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100
AC Resistance @ 90°C	Ω/km	1.539	1.113	0.822	0.568	0.411	0.325	0.265	0.211	0.161	0.130
Reactance	Ω/km	0.142	0.134	0.128	0.119	0.113	0.108	0.105	0.101	0.097	0.095
Impedance	Ω/km	1.545	1.121	0.832	0.580	0.426	0.342	0.285	0.234	0.188	0.161
Capacitance	μF/km	0.154	0.170	0.185	0.205	0.227	0.249	0.264	0.287	0.317	0.337
Current rating:											
In ground	Amps	108	128	151	185	221	251	280	317	367	413
In air in shade	Amps	119	143	171	211	256	295	332	380	446	506
In air in direct sunlight	Amps	104	125	149	185	224	258	289	331	388	440
Short circuit ratings:											
Symmetrical (250°C)	kA (1sec)	2.2	3.0	4.0	5.8	8.1	10.2	12.6	15.8	20.7	25.9
Earth fault (200°C)	kA (1sec)	2.7	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.3	4.5

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

Description: 12700/22000V, Aluminium, 1 Core, Type F2HA...
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	mm i 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	15.00	16.50	19.00	21.50	24.00	27.50	31.50	35.00	39.00
Insulation diameter	mm app.	21.00	23.00	24.50	26.00	27.50	29.50	32.00	34.00	38.50	42.00	46.00	50.50	54.50
Cable diameter	mm app.	28.00	30.00	32.00	33.00	35.00	37.00	39.00	41.00	46.00	50.00	54.00	59.00	63.00
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	0.99	1.12	1.27	1.42	1.55	1.61	1.88	2.14	2.6	3.06	3.64	4.32	5.08
Gross mass (500 m)	kg app.	725	790	870	940	1010	1165	1300	1430	1805	2055	2345	2960	3365
Bending radius	mm min.	560	600	640	660	700	740	780	820	920	1000	1080	1180	1260
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	0.064	0.052	0.043
Reactance	Ω/km	0.139	0.130	0.123	0.117	0.114	0.111	0.105	0.101	0.101	0.097	0.094	0.093	0.090
Impedance	Ω/km	0.834	0.583	0.429	0.345	0.288	0.238	0.193	0.164	0.143	0.126	0.113	0.106	0.100
Capacitance	µF/km	0.231	0.243	0.283	0.305	0.328	0.336	0.371	0.424	0.391	0.434	0.483	0.488	0.533
Current rating:														
In ground	Amps	159	194	232	264	295	333	387	436	495	562	635	706	774
In air in shade	Amps	183	228	277	320	362	415	492	565	655	758	878	994	1113
In air in direct sunlight	Amps	146	182	221	255	288	329	389	446	515	594	686	774	865
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)	2.5	2.7	2.8	3.0	3.2	3.4	3.6	3.8	4.3	4.7	5.1	5.6	6.0

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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