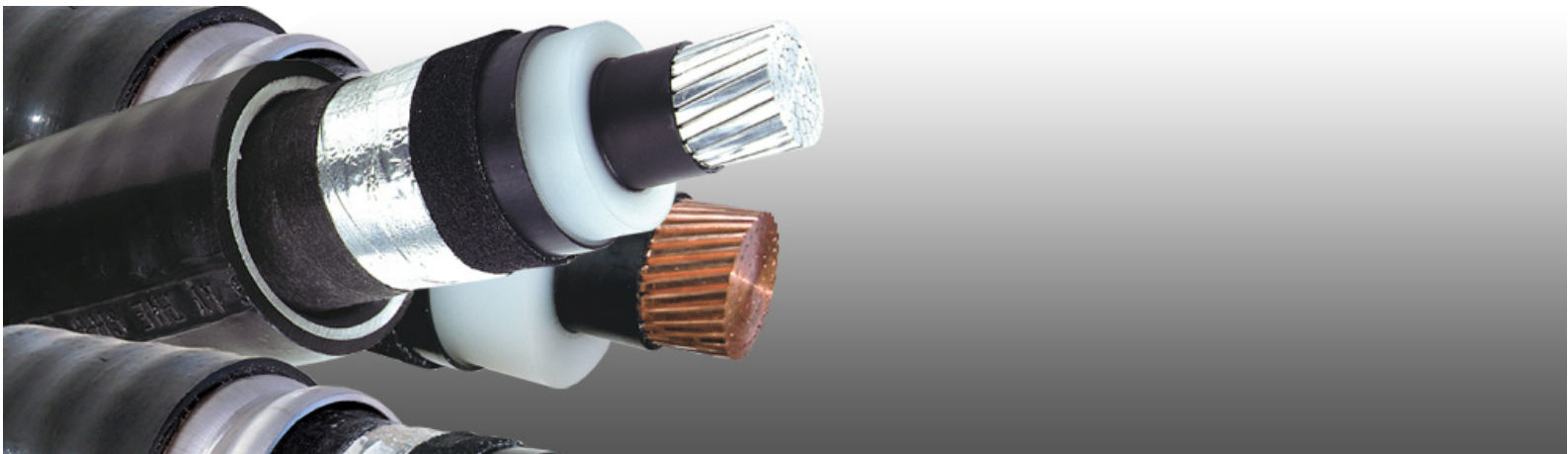


6.6kV XLPE Aluminium Технические характеристики



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Description:	3800/6600V, Aluminium, 1 Core, Type	F2EA...
Bedding/ Sheathing:	A FRPVC/AWA/FRPVC (red stripe) LHPVC/AWA/LHPVC (blue stripe)	...141 ...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	mm 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.	15.00	17.00	18.50	20.00	21.50	23.00	26.00	28.50	33.50	37.50	41.50	45.50	50.00
Bedding diameter	mm app.	20.00	21.50	23.50	24.50	26.00	28.00	30.50	33.50	38.00	42.50	46.50	51.00	55.00
Armour diameter	mm app.	23.00	24.50	26.50	28.00	29.50	32.00	34.50	37.50	42.00	47.50	51.50	56.00	60.00
Cable diameter	mm app.	27.00	29.00	31.00	32.00	34.00	37.00	40.00	42.00	47.00	53.00	58.00	62.00	67.00
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	500
Cable mass (approximate)	kg/m	0.96	1.09	1.26	1.38	1.53	1.79	2.09	2.41	2.99	3.69	4.36	5.08	6.0
Gross mass (500 m)	kg app.	655	715	850	910	990	1120	1390	1550	1855	2335	2670	3295	3825
Bending radius	mm min.	540	580	620	640	680	740	800	840	940	1060	1160	1240	1340
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	0.136	0.128	0.121	0.115	0.112	0.111	0.107	0.102	0.102	0.101	0.098	0.096	0.094
Impedance	Ω/km	0.833	0.582	0.428	0.345	0.288	0.239	0.194	0.166	0.144	0.129	0.117	0.109	0.103
Capacitance	µF/km	0.523	0.518	0.662	0.722	0.782	0.841	0.831	0.918	0.644	0.672	0.752	0.771	0.797
Zero Sequence Resistance	Ω/km	1.141	0.863	0.683	0.530	0.458	0.383	0.319	0.274	0.229	0.174	0.149	0.129	0.113
Zero Sequence Reactance	Ω/km	0.079	0.070	0.064	0.059	0.056	0.054	0.050	0.048	0.048	0.047	0.044	0.043	0.041
Current rating:														
In ground	Amps	161	195	233	264	294	328	376	421	472	519	570	621	664
In air in shade	Amps	186	230	280	324	365	415	485	555	636	719	805	897	976
In air in direct sunlight	Amps	149	184	223	258	290	329	383	438	500	562	628	698	757
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)	9.8	10.5	11.4	12.0	12.7	16.5	18.0	19.6	22.2	30.1	32.8	35.9	38.6

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

african cables

Description: 3800/6600, Aluminium, 1 Core, Type B F2EA...
Sheathing: 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	19
PHYSICAL DIMENSIONS														
Conductor size	mm nom	50	70	95	120	150	185	240	300	400	500	630	800	10
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.	15.00	17.00	18.50	20.00	21.50	23.00	26.00	28.50	33.50	37.50	41.50	45.50	50.00
Cable diameter	mm app.	21.00	23.00	25.00	27.00	28.00	30.00	33.00	36.00	41.00	45.00	49.00	54.00	58.00
TECHNICAL DATA														
Normal drum length	m	500	500	500	500	500	500	500	500	500	500	500	500	50
Cable mass (approximate)	kg/m	0.66	0.77	0.91	1.03	1.06	1.21	1.45	1.73	2.20	2.67	3.21	3.83	4.5
Gross mass (500 m)	kg app.	480	540	605	670	670	777	950	1085	1450	1680	2080	2405	27
Bending radius	mm min.	420	460	500	540	560	600	660	720	820	900	980	1080	75/11
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	0.0
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	0.0
Reactance	Ω/km	0.121	0.113	0.107	0.105	0.100	0.098	0.095	0.093	0.093	0.091	0.087	0.087	0.0
Impedance	Ω/km	0.831	0.579	0.424	0.341	0.283	0.233	0.188	0.160	0.138	0.121	0.109	0.102	0.0
Capacitance	µF/km	0.523	0.518	0.662	0.722	0.782	0.841	0.831	0.918	0.644	0.672	0.752	0.771	0.5/7
Current rating:														
In ground	Amps	159	195	232	264	296	333	386	434	495	562	635	703	77
In air in shade	Amps	176	221	270	312	355	406	483	555	648	756	876	987	11
In air in direct sunlight	Amps	143	178	217	250	284	325	385	440	512	595	688	772	86/7
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.
Earth fault (200°C)	kA (1sec)	1.8	2.0	2.2	2.4	2.5	2.7	3.0	3.3	3.8	4.2	4.6	5.1	5.5

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

Description:	3800/6600V, Aluminium, 3 Core, Type	F2EA...
Bedding / Sheathing:	A FRPVC/ SWA/ FRPVC (red stripe)	...111
Specification:	LHPVC/ SWA/ LHPVC (blue stripe)	...212
	SANS 1339	

Size code	...n/a...	3016	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DIMENSIONS												
Conductor size	mm nom	16	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	4.8	6.0	7.2	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4
Insulation diameter	mm app.	11.6	12.8	14.0	15.2	16.7	18.5	20.2	21.4	23.2	25.8	27.8
Bedding diameter	mm app.	32.6	35.2	37.8	40.6	43.8	47.9	51.8	54.4	58.5	64.3	68.8
Armour diameter	mm app.	36.6	39.2	41.8	45.6	48.8	52.9	56.8	59.4	64.8	70.6	75.1
Cable diameter	mm app.	41.1	43.7	46.5	50.7	54.1	58.4	62.5	65.3	70.9	77.2	82.3
TECHNICAL DATA												
Normal drum length	m	300	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	2.9	3.3	3.5	4.4	4.9	5.5	6.2	6.6	8.1	9.3	10.6
Gross mass (300 m)	kg app.	1105	1215	1285	1670	1830	2125	2355	2500	2950	3620	4005
Bending radius	mm min.	493	524	558	608	650	701	750	784	851	926	988
DC Resistance @ 20°C	Ω/km	1.910	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	2.449	1.539	1.113	0.822	0.568	0.411	0.325	0.265	0.211	0.162	0.130
Reactance	Ω/km	0.129	0.120	0.114	0.109	0.101	0.096	0.093	0.091	0.087	0.085	0.084
Impedance	Ω/km	2.452	1.543	1.119	0.829	0.577	0.422	0.338	0.280	0.229	0.183	0.155
Capacitance	μF/km	0.239	0.272	0.305	0.338	0.380	0.429	0.475	0.508	0.557	0.601	0.602
Zero Sequence Resistance	Ω/km	4.100	3.066	2.534	1.969	1.630	1.384	1.227	1.123	0.892	0.782	0.710
Zero Sequence Reactance	Ω/km	0.152	0.143	0.136	0.133	0.126	0.120	0.116	0.113	0.111	0.107	0.105
Current rating:												
In ground	Amps	82	105	125	147	180	214	243	271	305	351	392
In air in shade	Amps	86	112	136	162	200	242	278	313	358	418	470
In air in direct sunlight	Amps	76	99	120	143	176	212	243	273	312	364	409
Short circuit ratings:												
Symmetrical (250°C)	kA (1sec)	1.4	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)	10.6	11.5	12.3	16.1	17.3	18.8	20.3	21.3	28.2	30.9	33.0

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

african cables

Description:	3800/6600V, Aluminium, 3 Core, Type	F2EA...
Sheathing:	B FRPVC (red stripe)	...001
	LHPVC (blue stripe)	...002
Specification:	SANS 1339	

Size code	...n/a...	3016	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DIMENSIONS												
Conductor size	mm nom	16	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	4.8	6.0	7.2	8.4	9.9	11.7	13.4	14.6	16.4	18.8	20.4
Insulation diameter	mm app.	11.6	12.8	14.0	15.2	16.7	18.5	20.2	21.4	23.2	25.8	27.8
Bedding diameter	mm app.	30.6	33.1	35.7	38.3	41.6	45.0	48.7	51.3	55.2	60.8	65.1
Cable diameter	mm app.	34.7	37.5	40.2	43.0	46.5	50.2	54.0	56.8	60.9	67.0	71.7
TECHNICAL DATA												
Normal drum length	m	300	300	300	300	300	300	300	300	300	300	300
Cable mass (approximate)	kg/m	1.61	1.80	1.960	2.182	2.419	2.91	3.31	3.62	4.08	4.86	5.68
Gross mass (300 m)	kg app.	590	645	695	830	910	1080	1200	1345	1560	1805	2335
Bending radius	mm min.	520	562	604	646	697	752	810	852	914	1004	1076
DC Resistance @ 20°C	Ω/km	1.910	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	2.449	1.539	1.113	0.822	0.568	0.411	0.325	0.265	0.211	0.162	0.130
Reactance	Ω/km	0.130	0.121	0.115	0.109	0.102	0.096	0.093	0.091	0.087	0.085	0.084
Impedance	Ω/km	2.452	1.543	1.119	0.829	0.577	0.422	0.338	0.280	0.229	0.183	0.155
Capacitance	μF/km	0.239	0.272	0.305	0.338	0.380	0.429	0.475	0.508	0.557	0.601	0.602
Current rating:												
In ground	Amps	85	109	130	153	186	221	251	281	318	369	414
In air in shade	Amps	89	116	140	168	209	250	289	326	375	443	504
In air in direct sunlight	Amps	79	103	124	148	184	220	254	287	329	388	440
Short circuit ratings:												
Symmetrical (250°C)	kA (1sec)	1.4	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)	3.5	3.8	4.1	4.4	4.8	2.6	2.8	3.0	3.2	3.5	3.8

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

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Казань (843)206-01-48	Новокузнецк (3843)20-46-81	Смоленск (4812)29-41-54	

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