

6.6kV XLPE – Copper Технические характеристики



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Description: 3800/6600V, Copper, 1 Core, Type B F2EC...
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	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.	8.50	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	500
Cable mass (approximate)	kg/m	0.941	1.192	1.41	1.739	1.931	2.308	2.949	3.524	4.647	5.646	7.031	8.751	10.87
Gross mass (500 m)	kg app.	575	700	856	1016	1112	1300	1692	1979	2593	3225	3848	4376	5926
Bending radius	mm min.	420	460	500	540	560	600	660	720	820	900	980	1080	1160
DC Resistance @ 20°C	Ω/km	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060	0.047	0.037	0.028	0.022	0.018
AC Resistance @ 90°C	Ω/km	0.494	0.342	0.247	0.196	0.160	0.128	0.099	0.080	0.064	0.052	0.042	0.036	0.031
Reactance	Ω/km	0.121	0.116	0.110	0.105	0.099	0.098	0.095	0.093	0.093	0.091	0.087	0.087	0.085
Impedance	Ω/km	0.508	0.361	0.270	0.222	0.188	0.161	0.137	0.122	0.113	0.104	0.097	0.094	0.090
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
Current rating:														
In ground	Amps	206	251	299	338	380	426	491	550	619	693	769	833	897
In air in shade	Amps	227	284	347	400	456	520	615	703	813	934	1063	1172	1293
In air in direct sunlight	Amps	184	229	279	321	365	415	490	558	642	735	835	917	1009
Short circuit ratings:														
Symmetrical (250°C)	kA (1sec)	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2	52.7	67.6	87.5	112.0	140.6
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, Copper, 3 Core, Type	F2EC...
Bedding/ Armouring/ Sheathing:	A FRPVC/SWA/FRPVC (red stripe)	...111
	LHPVC/SWA/LHPVC (blue stripe)	...212
Specification:	SANS 1339	

Size code	...n/a...	3016	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DIMENSIONS												
Conductor size	mmi 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	3.041	3.536	4.007	5.103	6.049	7.272	8.229	9.319	11.54	13.86	16.37
Gross mass (300 m)	kg app.	1016	1236	1377	1706	2021	2428	2805	3132	3809	4787	5605
Bending radius	mm min.	493	524	558	608	650	701	750	784	851	926	988
DC Resistance @ 20°C	Ω/km	1.150	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060
AC Resistance @ 90°C	Ω/km	1.466	0.927	0.668	0.494	0.342	0.247	0.196	0.160	0.128	0.099	0.080
Reactance	Ω/km	0.129	0.118	0.110	0.105	0.100	0.095	0.091	0.089	0.087	0.084	0.084
Impedance	Ω/km	1.472	0.935	0.677	0.505	0.356	0.265	0.216	0.183	0.155	0.130	0.116
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	3.117	2.455	2.090	1.641	1.404	1.220	1.097	1.017	0.808	0.718	0.659
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	107	135	161	190	231	275	311	347	388	444	492
In air in shade	Amps	113	145	175	209	258	311	357	401	456	530	593
In air in direct sunlight	Amps	100	128	154	184	226	273	312	351	398	462	516
Short circuit ratings:												
Symmetrical (250°C)	kA (1sec)	2.2	3.4	4.7	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2
Earth fault (200°C)	kA (1sec)	9.9	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

Description:	3800/6600V, Copper, 3 Core, Type	F2EC...
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 ^l 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	1.054	1.860	2.220	2.675	3.400	4.039	4.850	5.901	6.918	8.727	10.74
Gross mass (300 m)	kg app.	555.2	662	770	977.5	1202	1418	1661	2027	2407	2965	3850
Bending radius	mm min.	520	562	604	646	697	752	810	852	914	1004	1076
DC Resistance @ 20°C	Ω/km	1.150	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060
AC Resistance @ 90°C	Ω/km	1.466	0.927	0.668	0.494	0.342	0.247	0.196	0.160	0.128	0.099	0.080
Reactance	Ω/km	0.130	0.118	0.111	0.106	0.100	0.095	0.091	0.089	0.087	0.084	0.084
Impedance	Ω/km	1.472	0.935	0.678	0.505	0.357	0.265	0.216	0.183	0.155	0.130	0.116
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	109	140	167	197	240	285	323	362	408	471	528
In air in shade	Amps	115	149	181	217	269	322	372	420	481	567	642
In air in direct sunlight	Amps	102	132	160	191	237	284	327	369	422	496	561
Short circuit ratings:												
Symmetrical (250°C)	kA (1sec)	2.2	3.4	4.7	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2
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

Description: 3800/6600V, Copper, 1 Core, Type A FRPVC/ AWA/ FRPVC (red stripe) LHPVC/ AWA / LHPVC (blue stripe) SANS 1339

Bedding/Armouring/Sheathing:

Specification:

F2EC...
...141
...242

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	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	1.263	1.496	1.824	2.098	2.449	2.941	3.537	4.317	5.433	6.729	8.148	10.31	12.21
Gross mass (500 m)	kg app.	736	852	1016	1174	1407	1596	1975	2495	3049	3765	4702	5627	6926
Bending radius	mm min.	540	580	620	640	680	740	800	840	940	1060	1160	1240	1340
DC Resistance @ 20°C	Ω/km	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060	0.047	0.037	0.028	0.022	0.018
AC Resistance @ 90°C	Ω/km	0.494	0.342	0.247	0.196	0.160	0.128	0.099	0.080	0.064	0.052	0.042	0.036	0.031
Reactance	Ω/km	0.136	0.131	0.123	0.115	0.112	0.111	0.107	0.102	0.102	0.101	0.098	0.096	0.094
Impedance	Ω/km	0.512	0.366	0.276	0.228	0.195	0.170	0.145	0.130	0.120	0.113	0.107	0.102	0.099
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	0.813	0.637	0.519	0.401	0.352	0.300	0.255	0.223	0.189	0.143	0.125	0.111	0.100
Zero Sequence Reactance	Ω/km	0.079	0.073	0.067	0.059	0.055	0.054	0.050	0.048	0.048	0.047	0.044	0.043	0.041
Current rating:														
In ground	Amps	207	250	298	336	372	412	467	519	572	613	659	704	737
In air in shade	Amps	239	295	358	412	463	522	604	686	775	854	936	1022	1089
In air in direct sunlight	Amps	191	236	286	328	368	413	478	542	609	668	730	795	845
Short circuit ratings:														
Symmetrical (250°C)	kA (1sec)	6.40	9.24	12.82	16.18	19.96	24.98	32.83	41.18	52.66	67.62	87.46	112.0	140.6
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



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