

# 11kV MV PILC Copper 3 Core DSTA

## Технические характеристики



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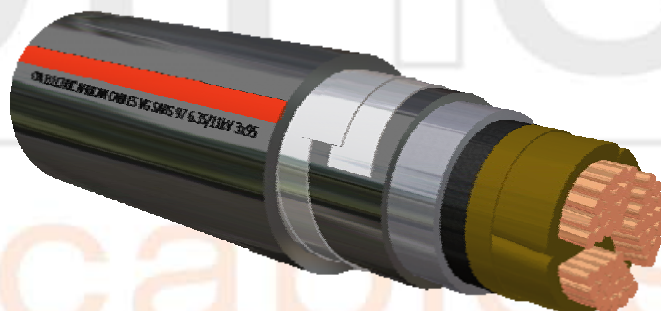
Copper 3 Core  
6350/11000 V  
Table 17  
SANS 97

PILC FIFC... Primary group code  
FRPVC DTA FRPVC (red stripe) ...17191 Table + Finish code  
LHPVC DTA LHPVC (blue stripe) ...17292

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm <sup>2</sup> nom	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm app.	6.1	7.2	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm app.	12.4	13.5	14.6	14.6	16.0	17.2	18.4	19.9	21.9	23.9
Diameter over lead sheath	mm app.	32.5	34.5	37.0	36.5	40.0	42.5	45.5	49.0	53.0	57.5
Bedding diameter	mm app.	35.0	37.5	40.0	39.5	43.0	46.0	49.0	52.5	56.5	61.5
Thickness of DSTA	mm	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Overall diameter	mm nom	43.0	45.5	48.5	48.5	52.0	55.0	58.5	62.0	66.5	72.0
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	4.7	5.2	6.0	6.7	8.0	9.3	10.7	12.4	14.7	17.4
Gross mass (drum length)	kg app.	2570	2840	1960	2170	2585	3190	3610	4290	4755	5650
Bending radius	mm min.	516	546	582	582	624	660	702	744	798	864
<b>Current rating</b>											
In ground	Amps	110	130	155	190	230	260	290	330	380	430
In ducts	Amps	91	110	130	160	190	220	245	280	320	360
In air	Amps	110	130	155	200	240	275	315	360	425	485
<b>Positive sequence</b>											
Resistance dc @ 20°C	Ω/km max	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601
ac @ 70°C	Ω/km max	0.870	0.627	0.463	0.321	0.232	0.184	0.149	0.1201	0.0924	0.0747
Reactance	Ω/km	0.110	0.105	0.101	0.082	0.077	0.075	0.073	0.070	0.068	0.066
Impedance	Ω/km	0.877	0.636	0.474	0.332	0.244	0.199	0.166	0.139	0.115	0.099
<b>Zero sequence</b>											
Resistance	Ω/km	5.325	4.769	4.314	4.004	3.406	2.985	2.638	2.316	2.104	1.841
Reactance	Ω/km	0.126	0.120	0.115	0.117	0.112	0.108	0.105	0.102	0.098	0.094
Impedance	Ω/km	5.326	4.771	4.316	4.006	3.408	2.987	2.640	2.318	2.106	1.843
<b>Short circuit ratings</b>											
Symmetrical	kA (1sec)	3.7	5.1	6.9	9.9	13.8	17.4	21.5	26.9	35.3	44.3
Earth fault(Symmetrical limit)	kA (1sec)	3.97	4.2	4.5	4.7	5.5	6.2	7.0	7.9	8.6	9.8

\* Circular Conductor

When ordering please quote: primary + size + table + finish code  
e.g. FIFC 3120 17 191



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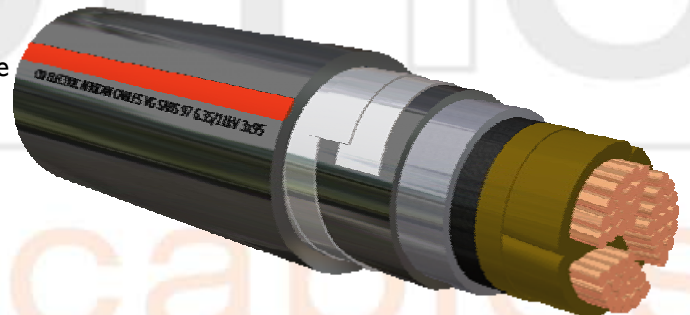
Copper 3 Core  
11000/11000V  
Table 18  
SANS 97

PILC/PILAC                      FIFC...      Primary group code  
FRPVC DTA FRPVC (red stripe)      ...18191      Table + Finish code  
LHPVC DTA LHPVC (blue stripe)      ...18292

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm <sup>2</sup> nom	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm app.	6.1	7.2	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm app.	12.4	13.5	14.6	14.6	16.0	17.2	18.4	19.9	21.9	23.9
Diameter over lead sheath	mm app.	36.5	39.0	41.5	41.0	44.5	47.0	49.5	53.0	57.5	62.0
Bedding diameter	mm app.	40.0	41.5	44.5	44.0	47.5	50.5	53.0	56.5	61.5	66.0
Thickness of DSTA	mm	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Overall diameter	mm app.	47.0	49.5	53.5	53.0	56.5	60.0	63.0	66.5	71.5	76.5
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	5.3	6.2	7.1	7.8	9.2	10.4	11.8	13.6	16.5	19.2
Gross mass (drum length)	kg app.	2890	3410	2313	2523	3160	3520	3885	4425	5375	6425
Bending radius	mm min.	564	594	642	636	678	720	756	798	858	918
<b>Current rating</b>											
In ground	Amps	105	125	150	180	220	250	280	320	370	415
In ducts	Amps	90	110	125	155	185	215	240	270	315	355
In air	Amps	105	125	150	185	230	265	300	345	405	465
<b>Positive sequence</b>											
Resistance dc @ 20°C	Ω/km max	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601
ac @ 70°C	Ω/km max	0.870	0.627	0.463	0.321	0.232	0.184	0.149	0.120	0.0924	0.0747
Reactance	Ω/km	0.110	0.105	0.101	0.082	0.077	0.075	0.073	0.070	0.068	0.066
Impedance	Ω/km	0.877	0.636	0.474	0.331	0.244	0.199	0.166	0.139	0.115	0.100
<b>Zero sequence</b>											
Resistance	Ω/km	4.805	4.076	3.497	3.236	2.785	2.591	2.307	2.040	1.703	1.507
Reactance	Ω/km	0.151	0.144	0.136	0.139	0.132	0.127	0.123	0.118	0.113	0.109
Impedance	Ω/km	4.807	4.079	3.500	3.239	2.788	2.594	2.310	2.043	1.707	1.511
<b>Short circuit ratings</b>											
Symmetrical	kA (1sec)	3.7	5.1	6.9	9.9	13.8	17.4	21.5	26.9	35.3	44.3
Earth fault(Symmetrical limit)	kA (1sec)	4.4	5.0	5.7	6.0	6.8	7.2	8.1	9.0	10.8	12.1

\* Circular Conductor

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e.g. FIFC 3120 18 191



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PILC/PILAC 6.35/11kV copper      FIFC...      Primary group code  
 FRPVC DTA FRPVC (red stripe)    ...19191    Table + Finish code  
 LHPVC DTA LHPVC (blue stripe)    ...19292

Copper 3 Core  
 6350/11000V  
 Table 19  
 SANS 97

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm <sup>2</sup> nom	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm app.	6.1	7.2	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm app.	12.9	14.0	15.1	15.1	16.5	17.7	18.9	20.4	22.4	24.4
Diameter over lead sheath	mm app.	33.0	35.5	38.0	37.5	41.0	43.5	46.0	49.5	54.0	58.5
Bedding diameter	mm app.	36.0	38.0	41.0	40.5	44.0	46.5	49.5	53.0	58.0	62.0
Thickness of DSTA	mm	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Overall diameter	mm app.	44.0	46.5	49.0	49.0	52.5	55.5	59.0	63.0	67.5	72.5
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	4.8	5.4	6.2	7.0	8.3	9.4	10.9	12.6	15.3	18.0
Gross mass ( drum length)	kg app.	2900	3200	2360	2600	2990	3320	3770	4280	5090	5900
Bending radius	mm min.	528	558	588	588	630	666	708	756	810	870
<b>Current rating</b>											
In ground	Amps	115	140	165	200	240	270	300	340	395	440
In ducts	Amps	96	115	135	165	200	225	250	285	330	370
In air	Amps	120	145	175	210	255	295	330	380	445	510
<b>Positive sequence</b>											
Resistance dc @ 20°C	Ω/km max	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601
ac @ 70°C	Ω/km max	0.870	0.627	0.463	0.321	0.232	0.184	0.150	0.1201	0.0923	0.0746
Reactance	Ω/km	0.115	0.109	0.105	0.086	0.081	0.078	0.076	0.073	0.070	0.068
Impedance	Ω/km	0.878	0.637	0.475	0.333	0.245	0.200	0.168	0.141	0.116	0.101
<b>Zero sequence</b>											
Resistance	Ω/km	5.212	4.671	3.984	3.704	3.164	2.934	2.596	2.281	1.887	1.659
Reactance	Ω/km	0.117	0.113	0.109	0.111	0.106	0.103	0.100	0.097	0.094	0.091
Impedance	Ω/km	5.213	4.672	3.985	3.706	3.166	2.936	2.598	2.283	1.889	1.661
<b>Short circuit ratings</b>											
Symmetrical	kA (1sec)	3.7	5.1	6.9	9.9	13.8	17.4	21.5	26.9	35.3	44.3
Earth fault (Symmetrical limit)	kA (1sec)	4.0	4.3	4.9	5.1	5.9	6.3	7.1	8.0	9.7	11.0

\* Circular Conductor

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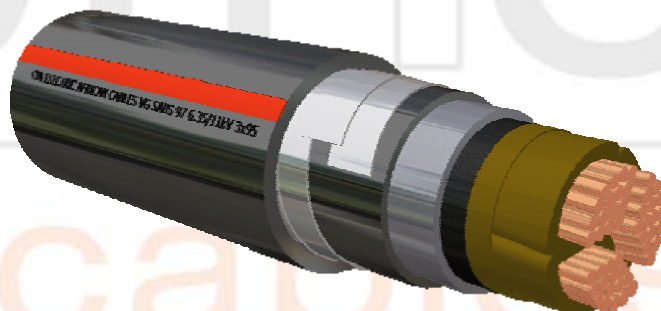
PILC/PILAC FIFC... Primary group code  
 FRPVC DTA FRPVC (red stripe) ...26191 Table + Finish code  
 LHPVC DTA LHPVC (blue stripe) ...26292

Copper 3 Core  
 I 1000/I 1000V  
 Table 26  
 SANS 97

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm <sup>2</sup> nom	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm app.	6.1	7.2	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm app.	13.6	14.7	15.8	15.8	17.2	18.4	19.6	21.1	23.1	25.1
Diameter over lead sheath	mm app.	41.0	43.5	46.0	45.5	48.5	51.5	54.0	57.5	62.0	66.5
Bedding diameter	mm app.	44.0	46.5	49.0	49.0	52.0	55.0	58.5	62.0	66.5	71.0
Thickness of DSTA	mm	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Overall diameter	mm app.	52.5	55.5	58.0	58.0	61.5	64.5	68.0	72.5	77.5	82.0
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	6.3	7.1	8.0	8.9	10.3	11.7	13.2	15.2	17.8	20.6
Gross mass (drum length)	kg app.	3580	3980	2760	3030	3520	3940	4390	4990	6010	6850
Bending radius	mm min.	630	666	696	696	738	774	816	870	930	984
Current rating											
In ground	Amps	110	135	145	180	215	245	275	310	360	410
In ducts	Amps	97	115	130	155	185	210	240	270	310	350
In air	Amps	115	140	150	180	220	260	290	335	395	450
Positive sequence											
Resistance dc @ 20°C	Ω/km max	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601
ac @ 70°C	Ω/km max	0.899	0.648	0.463	0.321	0.232	0.184	0.150	0.120	0.0923	0.0746
Reactance	Ω/km	0.116	0.111	0.106	0.087	0.082	0.079	0.077	0.074	0.071	0.069
Impedance	Ω/km	0.906	0.657	0.475	0.333	0.246	0.200	0.168	0.141	0.116	0.101
Zero sequence											
Resistance	Ω/km	4.177	3.552	3.045	2.809	2.434	2.167	1.944	1.733	1.525	1.357
Reactance	Ω/km	0.160	0.153	0.147	0.150	0.142	0.137	0.132	0.127	0.122	0.117
Impedance	Ω/km	4.180	3.556	3.048	2.813	2.438	2.171	1.948	1.738	1.529	1.362
Short circuit ratings											
Symmetrical	kA (1sec)	3.5	4.9	6.9	9.9	13.8	17.4	2.2	26.9	35.3	44.3
Earth fault (Symmetrical limit)	kA (1sec)	5.3	6.0	6.7	7.0	7.9	8.8	9.7	10.8	12.1	13.5

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<b>Барнаул</b> (3852)73-04-60	<b>Киров</b> (8332)68-02-04	<b>Оренбург</b> (3532)37-68-04	<b>Тверь</b> (4822)63-31-35
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<b>Брянск</b> (4832)59-03-52	<b>Красноярск</b> (391)204-63-61	<b>Пермь</b> (342)205-81-47	<b>Тула</b> (4872)74-02-29
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<b>Волгоград</b> (844)278-03-48	<b>Липецк</b> (4742)52-20-81	<b>Рязань</b> (4912)46-61-64	<b>Ульяновск</b> (8422)24-23-59
<b>Вологда</b> (8172)26-41-59	<b>Магнитогорск</b> (3519)55-03-13	<b>Самара</b> (846)206-03-16	<b>Уфа</b> (347)22948 -12
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<b>Казань</b> (843)206-01-48	<b>Новокузнецк</b> (3843)20-46-81	<b>Смоленск</b> (4812)29-41-54	

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