

11kV MV PILC Copper 3 Core SWA

Технические характеристики



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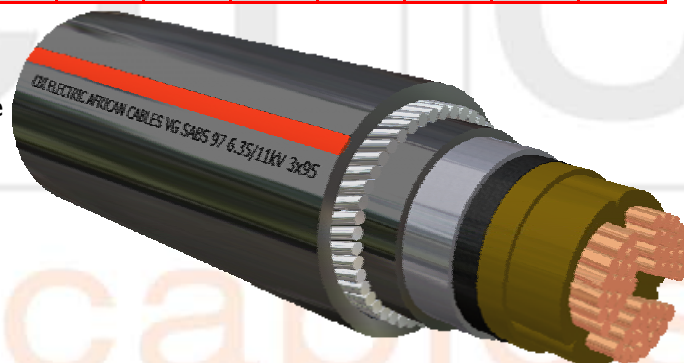
Copper 3 Core
6350/11000V
Table 17
SANS 97

PILC/PILAC FIFC... Primary group code
FRPVC SWA FRPVC (red stripe) ...17111 Table + Finish code
LHPVC SWA LHPVC (blue stripe) ...17212

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² 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	40.5	39.5	43.0	46.0	49.0	52.5	56.5	61.5
Size of armour wires	mm	2.00	2.50	2.50	2.50	2.50	2.50	3.15	3.15	3.15	3.15
Overall diameter	mm app.	43.5	47.0	50.0	50.0	53.5	57.0	61.5	65.0	69.5	74.5
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	5.2	6.2	7.1	7.7	9.1	10.5	12.7	14.5	17.0	19.9
Gross mass (drum length)	kg app.	2820	3340	2460	2640	3130	3550	4210	5015	5600	6540
Bending radius	mm min.	522	564	600	600	642	684	738	780	834	894
Current rating											
In ground	Amps	110	130	155	190	230	260	295	335	385	435
In ducts	Amps	91	110	130	160	195	220	250	280	325	365
In air	Amps	110	130	160	200	245	280	320	370	430	495
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	0.870	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
Zero sequence											
Resistance	Ω/km	2.491	1.927	1.673	1.525	1.321	1.181	0.934	0.842	0.759	0.680
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	2.494	1.931	1.677	1.529	1.326	1.186	0.940	0.848	0.765	0.686
Short circuit ratings											
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)	12.6	15.9	17.0	17.1	18.8	20.5	26.2	28.4	30.7	33.7

* Circular Conductor

When ordering please quote: primary + size + table + finish code
e.g. FIFC 3120 17 111



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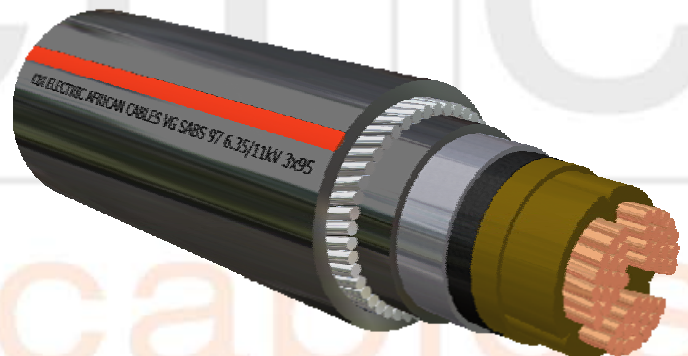
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PILC/PILAC FIFC... Primary group code
FRPVC SWA FRPVC (red stripe) ...18111 Table + Finish code
LHPVC SWA LHPVC (blue stripe) ...18212

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² 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	58.0	62.0
Bedding diameter	mm app.	39.0	41.5	44.5	44.0	47.5	50.5	53.0	56.5	62.0	66.0
Size of armour wires	mm	2.50	2.50	2.50	2.50	3.15	3.15	3.15	3.15	3.15	3.15
Overall diameter	mm app.	49.0	51.5	55.0	54.5	59.5	63.0	66.0	69.5	74.5	79.5
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	6.5	7.2	8.3	8.9	11.1	12.4	13.9	15.9	18.9	21.8
Gross mass (drum length)	kg app.	3650	4000	2890	3070	3730	4065	4515	5185	6195	7205
Bending radius	mm min.	588	618	660	654	714	756	792	834	894	954
Current rating											
In ground	Amps	105	125	150	180	220	250	280	320	370	420
In ducts	Amps	90	110	130	155	190	215	240	275	320	360
In air	Amps	105	125	150	190	230	265	305	350	410	470
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	0.870	0.627	0.463	0.321	0.232	0.184	0.149	0.1200	0.0923	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	0.099
Zero sequence											
Resistance	Ω/km	2.112	1.771	1.509	1.361	1.040	0.946	0.860	0.777	0.680	0.612
Reactance	Ω/km	0.150	0.143	0.136	0.139	0.132	0.127	0.123	0.118	0.113	0.109
Impedance	Ω/km	2.117	1.777	1.515	1.368	1.048	0.954	0.869	0.786	0.689	0.622
Short circuit ratings											
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)	16.6	18.0	19.6	19.6	25.5	27.0	28.9	31.1	34.6	37.7

* Circular Conductor

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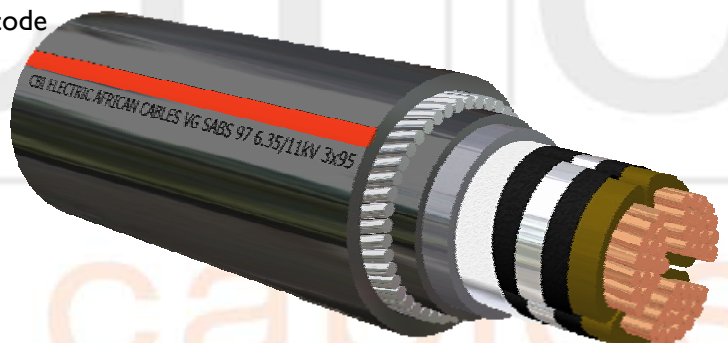
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Table 19
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PILC/PILAC FIFC... Primary group code
FRPVC SWA FRPVC (red stripe) ...19111 Table + Finish code
LHPVC SWA LHPVC (blue stripe) ...19212

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² 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.	12.8	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
Size of armour wires	mm	2.00	2.50	2.50	2.50	2.50	2.50	3.15	3.15	3.15	3.15
Overall diameter	mm app.	44.5	48.0	51.0	51.0	54.5	57.0	62.0	65.5	70.5	75.5
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	5.3	6.4	7.9	8.0	9.5	10.6	12.9	14.8	17.6	20.5
Gross mass (drum length)	kg app.	3150	3700	2870	2900	3350	3680	4370	4940	5780	6650
Bending radius	mm min.	534	576	612	612	654	684	744	786	846	906
Current rating											
In ground	Amps	115	140	165	200	240	270	305	345	395	445
In ducts	Amps	97	115	135	165	200	225	255	285	330	375
In air	Amps	120	145	175	210	260	295	335	385	455	520
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	0.870	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
Zero sequence											
Resistance	Ω/km	2.454	1.900	1.628	1.474	1.277	1.171	0.923	0.832	0.726	0.653
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	2.457	1.903	1.632	1.478	1.281	1.176	0.928	0.838	0.732	0.659
Short circuit ratings											
Symmetrical	kA (1sec)	3.7	5.0	6.9	9.9	13.8	17.4	21.5	26.9	35.3	44.3
Earth fault(Symmetrical limit)	kA (1sec)	12.9	16.2	17.6	17.8	19.5	20.7	26.6	28.8	32.2	35.1

* Circular Conductor

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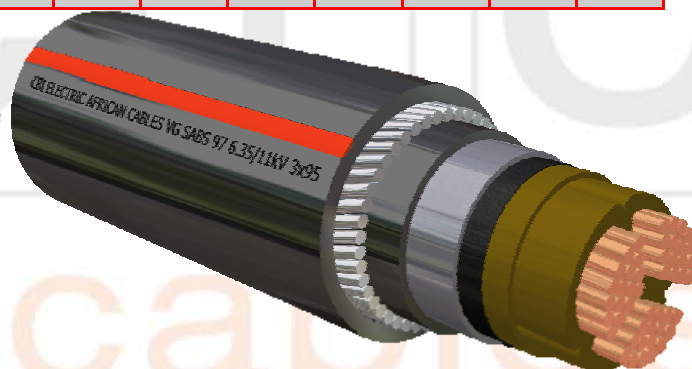
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Table 26
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PILC/PILAC FIFC... Primary group code
FRPVC SWA FRPVC (red stripe) ...26111 Table + Finish code
LHPVC SWA LHPVC (blue stripe) ...26212

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² 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	17.3	18.5	19.7	21.2	23.2	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
Size of armour wires	mm	2.50	2.50	2.50	3.15	3.15	3.15	3.15	3.15	3.15	3.15
Overall diameter	mm app.	54.0	57.0	60.0	61.0	64.5	67.5	71.0	75.5	80.5	85.0
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	7.5	8.3	9.3	10.8	12.4	13.9	15.5	17.6	20.5	23.4
Gross mass (drum length)	kg app.	4180	4580	3220	3670	4150	4600	5080	5950	6820	7520
Bending radius	mm min.	648	684	720	732	774	810	852	906	966	1020
Current rating											
In ground	Amps	100	125	145	180	215	245	275	315	365	410
In ducts	Amps	89	110	130	155	185	215	240	270	315	355
In air	Amps	105	125	150	185	225	260	295	340	400	460
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	0.870	0.627	0.463	0.321	0.232	0.184	0.150	0.1201	0.0923	0.0746
Reactance	Ω/km	0.116	0.111	0.106	0.088	0.082	0.080	0.077	0.074	0.072	0.069
Impedance	Ω/km	0.878	0.637	0.475	0.333	0.246	0.200	0.168	0.141	0.116	0.101
Zero sequence											
Resistance	Ω/km	1.956	1.633	1.395	1.106	0.956	0.860	0.780	0.703	0.627	0.568
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	1.962	1.640	1.403	1.116	0.966	0.871	0.791	0.715	0.639	0.580
Short circuit ratings											
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)	18.9	20.3	21.9	26.2	28.4	30.3	32.4	34.9	37.9	41.0

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