

11kV PILC MV P1 Aluminium 3 Core SWA Технические характеристики



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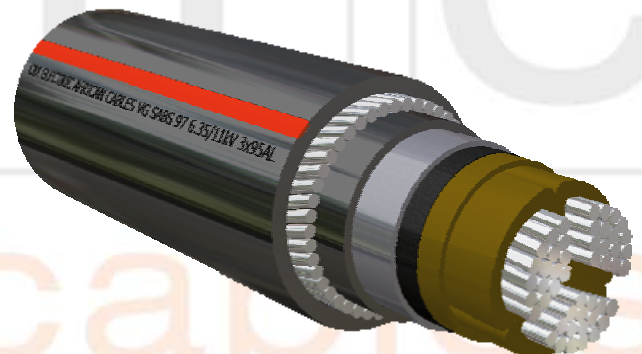
Aluminium 3 Core
6350/11000V
Table 17
SANS 97

PILC/PILAC
FRPVC SWA FRPVC (red stripe)
LHPVC SWA LHPVC (blue stripe)

FIFA... Primary group code
...17111 Table + Finish code
...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.	5.9	7	8.3	8.3	9.8	11	12.2	13.7	15.7	17.6
Insulated depth	mm app.	12.2	13.2	14.6	14.6	16	17.2	18.4	19.9	21.9	23.9
Diameter over lead sheath	mm app.	32	34	37	36.5	40	42.5	45.5	49	53	57.5
Bedding diameter	mm app.	34.5	37	40.5	39.5	43	46	49	52.5	56.5	61.5
Size of armour wires	mm	2	2.5	2.5	2.5	2.5	2.5	3.15	3.15	3.15	3.15
Overall diameter	mm app.	43	46.5	50	50	53.5	57	61.5	65	69.5	74.5
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	4.7	5.6	6.2	6.5	7.4	8.3	10	11.2	12.5	14.3
Gross mass (drum length)	kg app.	2750	3200	2045	2135	2620	2890	3400	3760	4150	4860
Bending radius	mm min.	516	558	600	600	642	684	738	780	834	894
Current rating											
In ground	Amps	83	100	120	150	180	205	230	260	300	340
In ducts	Amps	70	85	100	125	150	170	195	220	255	290
In air	Amps	83	100	120	155	190	220	250	285	340	390
Positive sequence											
Resistance dc @ 20°C	W/km max	1.2	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.1
ac @ 70°C	W/km max	1.442	1.043	0.77	0.533	0.385	0.305	0.248	0.198	0.152	0.122
Reactance	W/km	0.111	0.106	0.101	0.082	0.077	0.075	0.073	0.07	0.068	0.066
Impedance	W/km	1.446	1.048	0.777	0.539	0.393	0.314	0.259	0.21	0.166	0.138
Zero sequence											
Resistance	W/km	3.086	2.359	1.98	1.736	1.474	1.302	1.033	0.92	0.819	0.679
Reactance	W/km	0.128	0.121	0.115	0.117	0.112	0.108	0.105	0.102	0.098	0.094
Impedance	W/km	3.089	2.362	1.983	1.74	1.478	1.306	1.038	0.926	0.825	0.685
Short circuit ratings											
Symmetrical	kA (1sec)	2.3	3.2	4.4	6.4	8.8	11.1	13.7	17.2	22.5	28.2
Earth fault (Symmetrical limit)	kA (1sec)	12.4	15.7	17	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. FIFA 3120 17 111



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Aluminium 3 Core

11000/11000V

Table 18

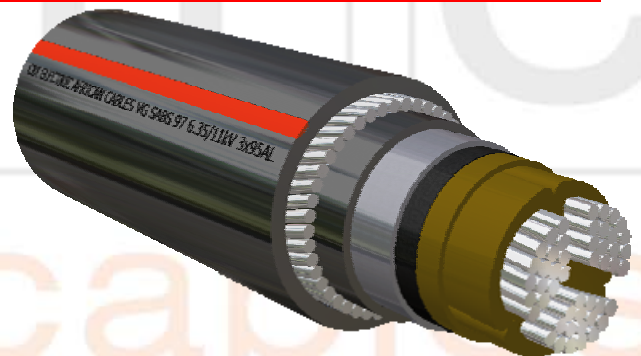
SANS 97

PILC/PILAC
 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.	5.9	7.0	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm app.	12.2	13.2	14.6	14.6	16.0	17.2	18.4	19.9	21.9	23.9
Diameter over lead sheath	mm app.	36.0	38.5	41.5	41.0	44.5	47.0	49.5	53.0	58.0	62.0
Bedding diameter	mm app.	38.4	40.9	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.	48.5	51.0	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.	5.9	6.5	7.4	7.7	9.4	10.2	11.2	12.4	14.4	16.2
Gross mass (drum length)	kg app.	3350	3650	2620	2710	3220	3405	3705	4135	4845	5430
Bending radius	mm min.	582	612	660	654	714	756	792	834	894	954
Current rating											
In ground	Amps	81	97	115	140	170	195	220	250	290	330
In ducts	Amps	70	84	99	120	145	165	190	215	250	285
In air	Amps	81	98	120	145	180	205	235	270	320	370
Positive sequence											
Resistance dc @ 20°C	Ω/km max	1.200	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100
ac @ 70°C	Ω/km max	1.442	1.043	0.770	0.533	0.385	0.305	0.248	0.198	0.152	0.122
Reactance	Ω/km	0.111	0.106	0.101	0.082	0.077	0.075	0.073	0.070	0.068	0.066
Impedance	Ω/km	1.446	1.048	0.777	0.539	0.393	0.314	0.259	0.211	0.167	0.139
Zero sequence											
Resistance	Ω/km	2.700	2.200	1.816	1.572	1.193	1.067	0.959	0.855	0.740	0.659
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	2.704	2.205	1.821	1.578	1.200	1.075	0.967	0.863	0.749	0.668
Short circuit ratings											
Symmetrical	kA (1sec)	2.3	3.2	4.4	6.4	8.8	11.1	13.7	17.2	22.5	28.2
Earth fault (Symmetrical limit)	kA (1sec)	16.0	17.8	19.6	19.6	25.5	27.0	28.9	31.1	34.6	37.7

* Circular Conductor

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Table 19
SANS 97

PILC/PILAC
FRPVC SWA FRPCV (red stripe)
LHPVC SWA LHPVC (blue stripe)

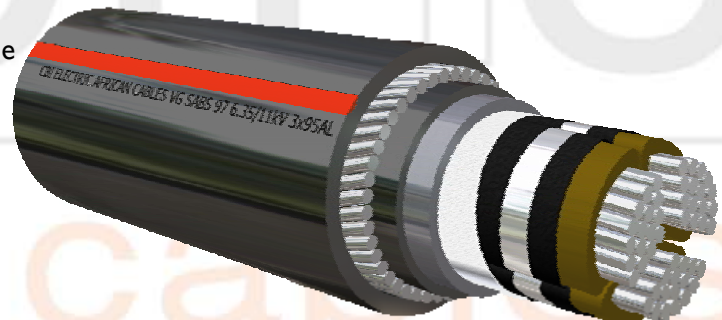
FIFA...
...19111
...19212

Primary group code
Table + Finish code

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.	5.9	7.0	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm app.	12.7	13.7	15.1	15.1	16.5	17.7	18.9	20.4	22.4	24.4
Diameter over lead sheath	mm app.	32.5	35.0	38.0	37.5	41.0	43.5	46.0	49.5	54.0	58.5
Bedding diameter	mm app.	35.5	37.5	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.	44.0	47.5	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.	4.8	5.6	6.4	6.8	7.7	8.4	10.2	11.4	13.3	16.2
Gross mass (drum length)	kg app.	2900	3300	2420	2540	2810	3020	3560	3920	4490	5360
Bending radius	mm min.	528	570	612	612	654	684	744	786	846	906
Current rating											
In ground	Amps	90	110	130	155	185	210	235	270	310	345
In ducts	Amps	75	90	105	130	155	175	200	225	260	295
In air	Amps	95	115	135	165	200	230	265	300	355	400
Positive sequence											
Resistance dc @ 20°C	Ω/km max	1.200	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100
ac @ 70°C	Ω/km max	1.442	1.043	0.770	0.533	0.385	0.305	0.248	0.198	0.152	0.122
Reactance	Ω/km	0.116	0.109	0.105	0.086	0.081	0.078	0.076	0.073	0.070	0.068
Impedance	Ω/km	1.447	1.049	0.777	0.540	0.393	0.314	0.260	0.211	0.167	0.139
Zero sequence											
Resistance	Ω/km	3.048	2.331	1.935	1.685	1.430	1.291	1.022	0.910	0.785	0.701
Reactance	Ω/km	0.119	0.113	0.109	0.111	0.106	0.103	0.100	0.097	0.094	0.091
Impedance	Ω/km	3.050	2.334	1.938	1.689	1.434	1.295	1.027	0.915	0.791	0.707
Short circuit ratings											
Symmetrical	kA (1sec)	2.3	3.2	4.4	6.4	8.8	11.1	13.7	17.2	22.5	28.2
Earth fault (Symmetrical limit)	kA (1sec)	12.7	16	17.6	17.8	19.5	20.7	26.6	28.8	32.2	35.1

* Circular Conductor

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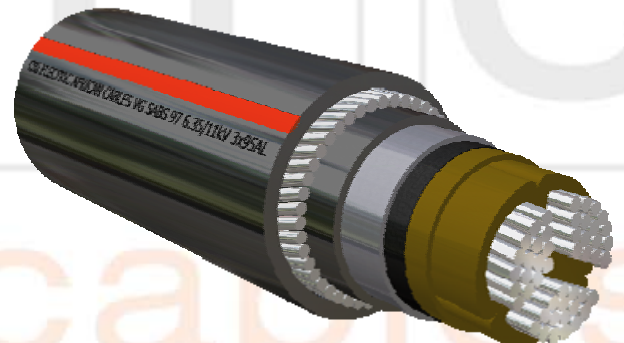
Aluminium 3 Core
11000/11000V
Table 26
SANS 97

PILC/PILAC
FRPVC SWA FRPVC (red stripe)
LHPVC SWA LHPVC (blue stripe)

FIFA... Primary group code
...26111 Table + Finish code
...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.	5.9	7.0	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm app.	13.4	14.5	15.8	15.8	17.3	18.5	19.7	21.2	23.2	25.1
Diameter over lead sheath	mm app.	40.5	43.0	46.0	45.5	48.5	51.5	54.0	57.5	62.0	66.5
Bedding diameter	mm app.	43.5	46.0	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.	53.5	56.5	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.	6.9	7.6	8.4	9.6	10.6	11.7	12.8	14.3	16.0	17.8
Gross mass (drum length)	kg app.	3880	4230	2950	3310	3610	3940	4270	4720	5260	5840
Bending radius	mm min.	642	678	720	732	774	810	852	906	966	1020
Current rating											
In ground	Amps	79	95	115	140	165	190	215	245	285	325
In ducts	Amps	69	83	98	120	145	165	185	210	250	280
In air	Amps	80	97	115	145	175	200	230	265	315	360
Positive sequence											
Resistance dc @ 20°C	Ω/km max	1.200	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100
ac @ 70°C	Ω/km max	1.442	1.043	0.770	0.533	0.385	0.305	0.248	0.198	0.151	0.122
Reactance	Ω/km	0.118	0.112	0.106	0.088	0.082	0.080	0.077	0.074	0.072	0.069
Impedance	Ω/km	1.447	1.049	0.778	0.540	0.393	0.315	0.260	0.211	0.167	0.140
Zero sequence											
Resistance	Ω/km	2.540	2.059	1.702	1.318	1.109	0.981	0.879	0.782	0.687	0.616
Reactance	Ω/km	0.162	0.155	0.147	0.150	0.142	0.137	0.132	0.127	0.122	0.117
Impedance	Ω/km	2.545	2.065	1.708	1.326	1.118	0.991	0.889	0.792	0.698	0.627
Short circuit ratings											
Symmetrical	kA (1sec)	2.3	3.2	4.4	6.4	8.8	11.1	13.7	17.2	22.5	28.2
Earth fault (Symmetrical limit)	kA (1sec)	18.7	20.1	21.9	26.2	28.4	30.3	32.4	34.9	37.9	41.0

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