

11kV PILC MV P1 Aluminium 3 Core DSTA

Технические характеристики



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Aluminium 3 Core
6350/11000V
Table 17
SANS 97

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

FIFA... Primary group code
...17191 Table + Finish code
...17292

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.	32.0	34.0	37.0	36.5	40.0	42.5	45.5	49.0	53.0	57.5
Bedding diameter	mm app.	34.3	36.6	40.0	39.5	43.0	46.0	49.0	52.5	56.5	61.5
Thickness of DSTA	mm	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Overall diameter	mm app.	42.5	45.0	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.	4.2	4.6	5.2	5.4	6.3	7.1	8.0	9.1	10.3	11.8
Gross mass (drum length)	kg app.	2320	2475	1720	1780	2075	2530	2800	3300	3435	3970
Bending radius	mm min.	510	540	582	582	624	660	702	744	798	864
Current rating											
In ground	Amps	83	100	120	150	180	200	230	260	300	340
In ducts	Amps	70	84	100	125	150	170	190	220	255	285
In air	Amps	83	100	120	155	190	215	245	280	335	385
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	0.210	0.166	0.138
Zero sequence											
Resistance	Ω/km	5.968	5.243	4.621	4.215	3.560	3.106	2.737	2.394	2.164	1.889
Reactance	Ω/km	0.128	0.121	0.115	0.117	0.112	0.108	0.105	0.102	0.098	0.094
Impedance	Ω/km	5.969	5.244	4.622	4.217	3.562	3.108	2.739	2.396	2.166	1.891
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)	3.8	4.1	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. FIFA 3120 17 191



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Aluminium 3 Core
6350/11000V
Table 19
SANS 97

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

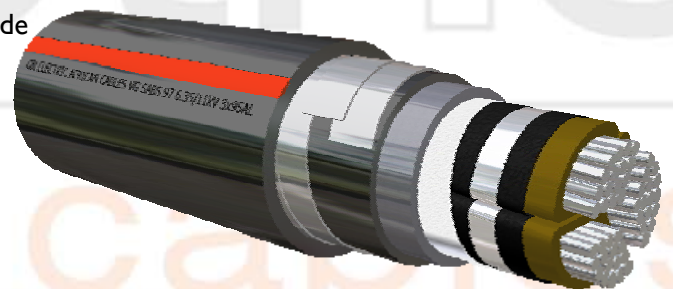
FIFA...
...19191
...19292

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.	12.9	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	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Overall diameter	mm app.	43.5	46.0	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.	4.3	4.7	5.3	5.7	6.5	7.2	8.2	9.2	10.8	12.4
Gross mass (drum length)	kg app.	2650	2850	2090	2210	2450	2660	2960	3260	3740	4220
Bending radius	mm min.	522	552	588	588	630	666	708	756	810	870
Current rating											
In ground	Amps	90	110	130	155	185	210	235	265	310	350
In ducts	Amps	75	89	105	130	155	175	195	220	260	290
In air	Amps	92	110	135	165	200	230	260	295	350	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	0.110	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	5.851	5.143	4.291	3.915	3.317	3.055	2.694	2.360	1.947	1.707
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	5.852	5.144	4.292	3.917	3.319	3.057	2.696	2.362	1.949	1.709
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)	3.9	4.2	4.9	5.1	5.9	6.3	7.1	8.0	9.7	11.0

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FIFA... Primary group code
...26191 Table + Finish code
...26292

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11000/11000V
Table 26
SANS 97

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	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Overall diameter	mm app.	52.0	55.0	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.	5.8	6.4	7.2	7.6	8.5	9.5	10.5	11.8	13.4	15.0
Gross mass (drum length)	kg app.	3330	3630	2520	2640	2980	3280	3580	3970	4480	4960
Bending radius	mm min.	624	660	696	696	738	774	816	870	930	984
Current rating											
In ground	Amps	79	95	115	140	165	190	215	245	285	320
In ducts	Amps	69	83	98	120	145	165	185	210	245	280
In air	Amps	80	96	115	140	175	200	230	260	310	355
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	0.117	0.112	0.106	0.087	0.082	0.079	0.077	0.074	0.071	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	4.761	3.980	3.352	3.020	2.587	2.288	2.043	1.811	1.584	1.404
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	4.764	3.983	3.355	3.024	2.591	2.292	2.047	1.816	1.589	1.409
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)	5.2	5.9	6.7	7.0	7.9	8.8	9.7	10.8	12.1	13.5

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