

Medium Voltage Paper Insulated Lead Alloy Covered (PILAC)

Aluminium 3 Core

PILC/PILAC	F1FA...	Primary group code ...	6350/11000V
FRPVC DTA FRPVC (red stripe)	39 191	Table + Finish code ...	Table 19
LHPVC DTA LHPVC (blue stripe)	39 292		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.	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
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.	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	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

Last updated January 2026

* Circular Conductor

When ordering please quote: primary + size + table + finish code

e.g. F1FA3120 39 191 0K0S

Soil thermal resistance = 1,2Km/W

Soil temperature = 25°C

Depth of burial = 800mm

Air temperature = 30°C

+5% tolerance on dimensions



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