

Medium Voltage Paper Insulated Lead Alloy Covered (PILAC)

Aluminium 3 Core

11000/11000V

Table 18

SANS 97

PILAC F1FA... Primary group code
 FRPVC DSTA FRPVC (red stripe) ...38 191 Table + Finish code
 LHPVC DSTA LHPVC (blue stripe) ...38 292

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.	35,7	38,2	41,5	41,0	44,5	47,0	49,5	53,0	57,5	62,0
Bedding diameter	mm app.	38,4	40,9	44,5	44,0	47,5	50,5	53,0	56,5	61,1	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.	46,5	49,0	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.	4,7	5,3	6,1	6,4	7,3	8,1	8,9	10,0	11,8	13,4
Gross mass (drum length)	kg app.	2590	2960	2013	2103	2590	2830	3015	3345	3965	4475
Bending radius	mm min.	558	588	642	636	678	720	756	798	858	918
Current rating											
In ground	Amps	81	97	115	140	170	195	220	250	290	330
In ducts	Amps	69	83	99	120	145	165	185	215	250	280
In air	Amps	80	98	115	145	175	205	235	270	320	365
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	1,049	0,777	0,539	0,393	0,314	0,259	0,210	0,166	0,138
Zero sequence											
Resistance	Ω/km	5,432	4,535	3,804	3,448	2,938	2,712	2,406	2,118	1,763	1,554
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	5,434	4,537	3,806	3,451	2,941	2,715	2,409	2,121	1,767	1,558
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)	4,4	5,0	5,7	6,0	6,8	7,2	8,1	9,0	10,8	12,1

Last updated January 2026

* Circular Conductor

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

e.g. F1FA 3120 38 191 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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