

Medium Voltage Paper Insulated Lead Alloy Covered (PILAC)

Aluminium 3 Core
6350/11000V
Table 17
SANS 97

PILAC F1FA... Primary group code
FRPVC DSTA FRPVC (red stripe) ...37 191 Table + Finish code
LHPVC DSTA LHPVC (blue stripe) ...37 292

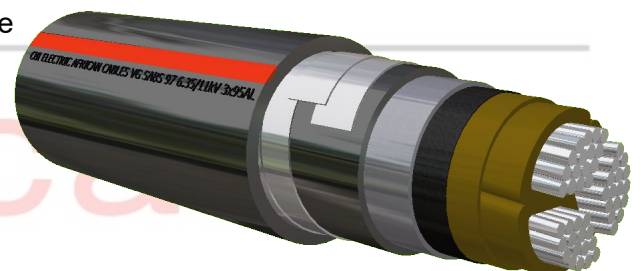
Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm app.	5,9	7,0	8,3	8,3	9,8	11,0	12,2	13,7	15,7	17,6
Insulated depth	mm app.	12,2	13,2	14,6	14,6	16,0	17,2	18,4	19,9	21,9	23,9
Diameter over lead sheath	mm app.	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

Last updated January 2026

* Circular Conductor

When ordering please quote: primary + size + table + finish code
e.g. F1FA 3120 37 191 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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