

Medium Voltage Paper Insulated Lead Alloy Covered (PILAC)

Aluminium 3 Core
12700/22000V
Table 20
SANS 97

PILAC F1HA... Primary group code
FRPVC DSTA FRPVC (red stripe) ...40 191 Table + Finish code
LHPVC DSTA LHPVC (blue stripe) ...40 292

Size code	...naaa...	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	50*	70*	95*	120	150	185	240	300
Conductor depth	mm app.	8,3	9,7	11,6	11,0	12,2	13,7	15,7	17,6
Insulated depth	mm app.	20,3	21,7	23,6	23,0	24,2	25,7	27,7	29,6
Diameter over lead sheath	mm app.	50,5	53,5	58,0	55,5	58,5	61,5	66,0	70,5
Bedding diameter	mm app.	54,0	57,5	61,5	59,0	62,0	66,0	70,0	74,5
Thickness of DSTA	mm	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80
Overall diameter	mm app.	63,5	67,0	71,5	69,5	72,5	76,5	81,5	86,0
Normal drum length	m	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	8,2	9,1	10,3	10,6	11,6	12,9	14,6	16,3
Gross mass (drum length)	kg app.	2850	3100	3450	3550	3850	4250	4750	5250
Bending radius	mm min.	762	804	858	834	870	918	978	1068
Current rating									
In ground	Amps	125	150	180	210	235	265	305	345
In ducts	Amps	105	130	155	180	200	225	260	290
In air	Amps	135	165	200	230	260	300	350	400
Positive sequence									
Resistance dc @ 20°C	Ω/km max	0,641	0,443	0,320	0,253	0,206	0,164	0,125	0,100
ac @ 70°C	Ω/km	0,770	0,533	0,385	0,304	0,248	0,198	0,151	0,121
Reactance	Ω/km	0,124	0,113	0,107	0,094	0,091	0,087	0,084	0,080
Impedance	Ω/km	0,780	0,544	0,399	0,319	0,264	0,216	0,172	0,145
Zero sequence									
Resistance	Ω/km	2,892	2,428	2,056	1,981	1,777	1,583	1,392	1,240
Reactance	Ω/km	0,124	0,119	0,114	0,118	0,115	0,112	0,108	0,104
Impedance	Ω/km	2,895	2,431	2,059	1,984	1,781	1,587	1,396	1,244
Short circuit ratings									
Symmetrical	kA (1sec)	4,4	6,4	8,8	11,1	13,7	17,2	22,5	28,2
Earth fault (Symmetrical limit)	kA (1sec)	8,2	9,2	10,4	10,4	11,4	12,5	14,0	15,5

Last updated January 2026

* Circular Conductor

When ordering please quote: primary + size + table + finish code
e.g. F1HA 3120 40 111 0K0S



Soil thermal resistance = 1,2Km/W
Soil temperature = 25°C
Depth of burial = 800mm
Air temperature = 30°C
+5% tolerance on dimensions

POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS