

Medium Voltage Paper Insulated Lead Alloy Covered (PILAC)

PILAC F1FA... Primary group code
FRPVC DTA FRPVC (red stripe) ...46 191 Table + Finish code
LHPVC DTA LHPVC (blue stripe) ...46 292

Aluminium 3 Core
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
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.	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	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

Last updated January 2026

* Circular Conductor

When ordering please quote: primary + size + table + finish code
e.g. F1FA 3120 46 191 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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