

Medium Voltage Paper Insulated Lead Alloy Covered (PILAC)

PILAC F1FA... Primary group code Aluminium 3 Core 11000/11000V
 FRPVC SWA FRPVC (red stripe) ...46 111 Table + Finish code Table 26
 LHPVC SWA LHPVC (blue stripe) ...46 212 SANS 97

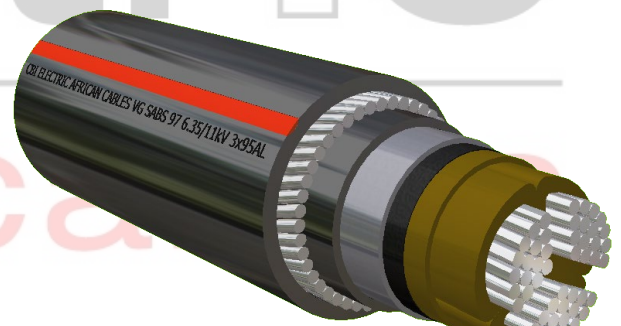
Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm app.	5,9	7,0	8,3	8,3	9,8	11,0	12,2	13,7	15,7	17,6
Insulated depth	mm app.	13,4	14,5	15,8	15,8	17,3	18,5	19,7	21,2	23,2	25,1
Diameter over lead sheath	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
Size of armour wires	mm	2,50	2,50	2,50	3,15	3,15	3,15	3,15	3,15	3,15	3,15
Overall diameter	mm app.	53,5	56,5	60,0	61,0	64,5	67,5	71,0	75,5	80,5	85,0
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	6,9	7,6	8,4	9,6	10,6	11,7	12,8	14,3	16,0	17,8
Gross mass (drum length)	kg app.	3880	4230	2950	3310	3610	3940	4270	4720	5260	5840
Bending radius	mm min.	642	678	720	732	774	810	852	906	966	1020
Current rating											
In ground	Amps	79	95	115	140	165	190	215	245	285	325
In ducts	Amps	69	83	98	120	145	165	185	210	250	280
In air	Amps	80	97	115	145	175	200	230	265	315	360
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	0,118	0,112	0,106	0,088	0,082	0,080	0,077	0,074	0,072	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	2,540	2,059	1,702	1,318	1,109	0,981	0,879	0,782	0,687	0,616
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	2,545	2,065	1,708	1,326	1,118	0,991	0,889	0,792	0,698	0,627
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)	18,7	20,1	21,9	26,2	28,4	30,3	32,4	34,9	37,9	41,0

Last updated January 2026

* Circular Conductor

When ordering please quote: primary + size + table + finish code
 e.g. F1FA 3120 46 111 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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