

# Medium Voltage Paper Insulated Lead Alloy Covered (PILAC)

Aluminium 3 Core  
6600/6600V  
Table 24  
SANS 97

PILAC F1EA... Primary group code  
FRPVC DSTA FRPVC (red stripe) ...44 191 Table + Finish code  
LHPVC DSTA FRPVC (blue stripe) ...44 292

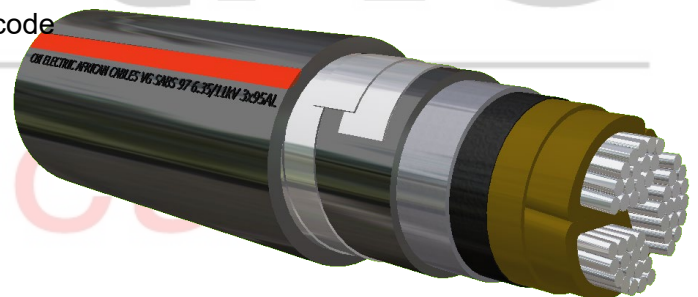
Size code	...naaa...	3016	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm <sup>2</sup> nom	16*	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm app.	5,2	5,9	7,0	8,3	8,3	9,8	11,0	12,2	13,7	15,7	17,6
Insulated depth	mm app.	10,2	10,9	12,0	13,3	13,3	14,8	16,0	17,2	18,7	20,7	22,6
Diameter over lead sheath	mm app.	30,5	32,0	34,5	38,0	37,5	40,5	43,5	46,0	49,5	54,0	58,5
Bedding diameter	mm app.	33,0	35,0	37,5	41,0	40,5	44,0	47,0	49,5	53,0	58,0	62,5
Thickness of DSTA	mm	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80
Overall diameter	mm app.	41,0	43,0	45,5	49,5	49,0	52,5	56,5	59,0	62,5	68,0	73,0
Normal drum length	m	500	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	3,7	4,1	4,7	5,4	5,7	6,5	7,4	8,1	9,1	10,9	12,4
Gross mass (drum length)	kg app.	2210	2410	2710	1950	2040	2280	2550	2760	3080	3690	4250
Bending radius	mm min.	492	516	546	594	588	630	678	708	750	816	876
<b>Current rating</b>												
In ground	Amps	69	88	105	125	155	185	210	240	270	320	360
In ducts	Amps	59	75	90	110	130	160	180	205	230	270	305
In air	Amps	68	88	110	130	160	195	225	260	300	350	405
<b>Positive sequence</b>												
Resistance dc @ 20°C	Ω/km max	1,910	1,200	0,868	0,641	0,443	0,320	0,253	0,206	0,164	0,125	0,100
ac @ 80°C	Ω/km	2,372	1,490	1,078	0,796	0,550	0,398	0,315	0,257	0,205	0,157	0,126
Reactance	Ω/km	0,109	0,105	0,100	0,095	0,077	0,073	0,071	0,069	0,067	0,065	0,063
Impedance	Ω/km	2,374	1,494	1,083	0,802	0,556	0,404	0,323	0,266	0,215	0,169	0,140
<b>Zero sequence</b>												
Resistance	Ω/km	7,826	6,269	5,208	4,341	3,945	3,340	2,922	2,710	2,372	1,956	1,715
Reactance	Ω/km	0,153	0,147	0,139	0,131	0,134	0,127	0,122	0,118	0,113	0,108	0,104
Impedance	Ω/km	7,828	6,271	5,210	4,343	3,947	3,342	2,924	2,712	2,375	1,959	1,718
<b>Short circuit ratings</b>												
Symmetrical	kA (1sec)	1,4	2,3	3,1	4,2	6,1	8,5	10,7	13,2	16,6	21,7	27,2
Earth fault (Symmetrical limit)	kA (1sec)	3,2	3,6	4,2	4,9	5,1	5,9	6,7	7,1	8,0	9,7	10,9

Last updated January 2026

\* Circular Conductor

When ordering please quote: primary + size + table + finish code  
e.g. F1EA 3120 34 191 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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