

Medium Voltage Paper Insulated Lead Alloy Covered Cables (PILAC)

PILAC
FRPVC DTA FRPVC (red stripe)
LHPVC DTA LHPVC (blue stripe)

F1FC... Primary group code
...37 191 Table + Finish code
...37 292

Copper 3 Core
6350/11000 V
Table 17
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.	6,1	7,2	8,3	8,3	9,8	11,0	12,2	13,7	15,7	17,6
Insulated depth	mm app.	12,4	13,5	14,6	14,6	16,0	17,2	18,4	19,9	21,9	23,9
Diameter over lead sheath	mm app.	32,5	34,5	37,0	36,5	40,0	42,5	45,5	49,0	53,0	57,5
Bedding diameter	mm app.	35,0	37,5	40,0	39,5	43,0	46,0	49,0	52,5	56,5	61,5
Thickness of DSTA	mm	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80	0,80
Overall diameter	mm nom	43,0	45,5	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.	4,7	5,2	6,0	6,7	8,0	9,3	10,7	12,4	14,7	17,4
Gross mass (drum length)	kg app.	2570	2840	1960	2170	2585	3190	3610	4290	4755	5650
Bending radius	mm min.	516	546	582	582	624	660	702	744	798	864
Current rating											
In ground	Amps	110	130	155	190	230	260	290	330	380	430
In ducts	Amps	91	110	130	160	190	220	245	280	320	360
In air	Amps	110	130	155	200	240	275	315	360	425	485
Positive sequence											
Resistance dc @ 20°C	Ω/km max	0,727	0,524	0,387	0,268	0,193	0,153	0,124	0,0991	0,0754	0,0601
ac @ 70°C	Ω/km	0,870	0,627	0,463	0,321	0,232	0,184	0,149	0,1201	0,0924	0,0747
Reactance	Ω/km	0,110	0,105	0,101	0,082	0,077	0,075	0,073	0,070	0,068	0,066
Impedance	Ω/km	0,877	0,636	0,474	0,332	0,244	0,199	0,166	0,139	0,115	0,099
Zero sequence											
Resistance	Ω/km	5,325	4,769	4,314	4,004	3,406	2,985	2,638	2,316	2,104	1,841
Reactance	Ω/km	0,126	0,120	0,115	0,117	0,112	0,108	0,105	0,102	0,098	0,094
Impedance	Ω/km	5,326	4,771	4,316	4,006	3,408	2,987	2,640	2,318	2,106	1,843
Short circuit ratings											
Symmetrical	kA (1sec)	3,7	5,1	6,9	9,9	13,8	17,4	21,5	26,9	35,3	44,3
Earth fault(Symmetrical limit)	kA (1sec)	3,97	4,2	4,5	4,7	5,5	6,2	7,0	7,9	8,6	9,8

* Circular Conductor

When ordering please quote: primary + size + table + finish code
e.g. F1FC 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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