

Medium Voltage Paper Insulated Lead Alloy Covered Cables (PILAC)

PILAC
FRPVC (red stripe)
LHPVC (blue stripe)

F1FC... Primary group code
...39 001 Table + Finish code
...39 002

Copper 3 Core
6350/11000V
Table 19
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.	12,9	14,0	15,1	15,1	16,5	17,7	18,9	20,4	22,4	24,4
Diameter over lead sheath	mm app.	33,0	35,5	38,0	37,5	41,0	43,5	46,0	49,5	54,0	58,5
Overall diameter	mm app.	38,0	40,0	43,0	42,5	46,0	49,0	52,0	56,0	60,5	65,5
Normal drum length	m	300	300	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	3,6	4,1	4,8	5,6	6,8	7,8	9,1	10,8	13,3	15,9
Gross mass (drum length)	kg app.	1080	1230	1440	1680	2040	2340	2730	3240	3990	4770
Bending radius	mm min.	456	480	516	510	552	588	624	672	726	786
Current rating											
In ground	Amps	117	140	165	203	243	276	309	349	404	455
In ducts	Amps	95	114	135	164	197	225	253	286	333	375
In air	Amps	118	143	171	213	259	298	339	389	459	526
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	0,150	0,120	0,092	0,075
Reactance	Ω/km	0,115	0,110	0,105	0,087	0,081	0,079	0,076	0,074	0,071	0,069
Impedance	Ω/km	0,878	0,637	0,475	0,333	0,245	0,200	0,168	0,141	0,116	0,101
Zero sequence											
Resistance	Ω/km	5,212	4,671	3,984	3,704	3,164	2,934	2,596	2,281	1,887	1,659
Reactance	Ω/km	0,117	0,113	0,109	0,111	0,106	0,103	0,100	0,097	0,094	0,091
Impedance	Ω/km	5,213	4,673	3,986	3,705	3,166	2,936	2,597	2,283	1,890	1,662
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)	4,0	4,3	4,9	5,1	5,9	6,3	7,1	8,0	9,7	11,0

* Circular Conductor

When ordering please quote: primary + size + table + finish code
e.g. F1FC 3120 39 191 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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