

Medium Voltage Paper Insulated Lead Alloy Covered Cables (PILAC)

PILAC F1FC... Primary group code
FRPVC DTA FRPVC (red stripe) ...46 191 Table + Finish code
LHPVC DTA LHPVC (blue stripe) ...46 292

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.	13,6	14,7	15,8	15,8	17,2	18,4	19,6	21,1	23,1	25,1
Diameter over lead sheath	mm app.	41,0	43,5	46,0	45,5	48,5	51,5	54,0	57,5	62,0	66,5
Bedding diameter	mm app.	44,0	46,5	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.	52,5	55,5	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.	6,3	7,1	8,0	8,9	10,3	11,7	13,2	15,2	17,8	20,6
Gross mass (drum length)	kg app.	3580	3980	2760	3030	3520	3940	4390	4990	6010	6850
Bending radius	mm min.	630	666	696	696	738	774	816	870	930	984
Current rating											
In ground	Amps	110	135	145	180	215	245	275	310	360	410
In ducts	Amps	97	115	130	155	185	210	240	270	310	350
In air	Amps	115	140	150	180	220	260	290	335	395	450
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	0,899	0,648	0,463	0,321	0,232	0,184	0,150	0,120	0,0923	0,0746
Reactance	Ω/km	0,116	0,111	0,106	0,087	0,082	0,079	0,077	0,074	0,071	0,069
Impedance	Ω/km	0,906	0,657	0,475	0,333	0,246	0,200	0,168	0,141	0,116	0,101
Zero sequence											
Resistance	Ω/km	4,177	3,552	3,045	2,809	2,434	2,167	1,944	1,733	1,525	1,357
Reactance	Ω/km	0,160	0,153	0,147	0,150	0,142	0,137	0,132	0,127	0,122	0,117
Impedance	Ω/km	4,180	3,556	3,048	2,813	2,438	2,171	1,948	1,738	1,529	1,362
Short circuit ratings											
Symmetrical	kA (1sec)	3,5	4,9	6,9	9,9	13,8	17,4	2,2	26,9	35,3	44,3
Earth fault (Symmetrical limit)	kA (1sec)	5,3	6,0	6,7	7,0	7,9	8,8	9,7	10,8	12,1	13,5

* Circular Conductor

When ordering please quote: primary + size + table + finish code

e.g. F1FC 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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