

Medium Voltage Paper Insulated Lead Alloy Covered Cables (PILAC)

Copper 1 Core
6350/11000V
Table 10
SANS 97

PILAC F1FC... Primary group code
FRPVC (red stripe) ...30 001 Table + Finish code
LHPVC (blue stripe) ...30 002
PE ...30 008

Size code	...naaa...	1150	1185	1240	1300	1400	1500	1630	1800	1999
Conductor size	mm ² nom	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app	14,7	16,5	18,8	21,2	23,9	27,4	30,3	34,2	38,9
Insulated diameter	mm app	22,7	24,5	26,8	29,2	31,9	35,4	38,3	42,2	47,0
Diameter over lead sheath	mm app	28,0	30,0	32,5	35,0	37,5	41,5	44,5	49,0	53,5
Overall diameter	mm app	31,0	33,0	35,5	38,0	41,0	45,0	48,5	53,0	58,0
Cable mass	kg/m app.	3,4	3,9	4,7	5,5	6,6	8,1	9,9	12,1	14,7
Gross mass (drum length)	kg app.	2200	2450	2850	3250	3800	4550	5450	6550	7850
Bending radius	mm min.	620	660	710	760	820	900	970	1060	1160
Current rating										
In ground	Amps	325	365	425	480	540	610	680	750	880
In ducts	Amps	295	335	385	435	490	550	615	670	790
In air	Amps	370	430	505	580	675	780	885	995	1210
Positive sequence										
Resistance dc @ 20°C	Ω/km max	0,1240	0,0991	0,0754	0,0601	0,0470	0,0366	0,0283	0,0221	0,0176
ac @ 70°C	Ω/km	0,149	0,120	0,0918	0,0740	0,0590	0,0474	0,0386	0,0322	0,0228
Reactance	Ω/km	0,111	0,107	0,103	0,097	0,095	0,092	0,089	0,087	0,085
Impedance	Ω/km	0,186	0,160	0,138	0,122	0,112	0,103	0,097	0,093	0,088
Zero sequence										
Resistance	Ω/km	1,880	1,735	1,487	1,365	1,177	1,006	0,880	0,761	0,653
Reactance	Ω/km	0,057	0,054	0,051	0,045	0,043	0,040	0,038	0,036	0,034
Impedance	Ω/km	1,881	1,736	1,488	1,366	1,178	1,007	0,881	0,762	0,654
Short circuit ratings										
Symmetrical	kA (1sec)	21,5	26,9	35,3	44,3	56,7	72,8	94,1	121	151
Earth fault (Symmetrical limit)	kA (1sec)	3,6	3,9	4,5	4,9	5,6	6,5	7,4	8,6	

When ordering please quote: primary + size + table + finish code
e.g. F1FC 1500 30 001 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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