

# Medium Voltage Paper Insulated Lead Alloy Covered Cables (PILAC)

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

F1FC... Primary group code  
...30 141 Table + Finish code  
...30 242

Copper 1 Core  
6350/11000V  
Table 10  
SANS 97

Size code	...naaa...	1150	1185	1240	1300	1400	1500	1630	1800	1999
Conductor size	mm <sup>2</sup> 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	46,9
Diameter over lead sheath	mm app.	28,0	30,0	32,5	35,0	37,5	41,5	44,5	49,0	53,5
Bedding diameter	mm app.	30,5	32,5	35,0	38,0	41,0	44,5	47,5	52,0	57,5
Size of armour wires	mm	2,0	2,00	2,00	2,50	2,50	2,50	2,50	2,50	3,15
Overall diameter	mm nom	38,5	41,0	43,5	47,5	51,0	54,5	58,0	62,5	69,5
Normal drum length	m	500	500	500	500	500	500	500	500	500
Cable mass	kg/m app.	4,2	4,8	5,7	6,7	8,0	9,6	11,5	13,8	17,0
Gross mass (drum length)	kg app.	2600	2900	3350	3850	4500	5300	6250	7400	9000
Bending radius	mm min.	770	820	870	950	1020	1090	1160	1250	1390
<b>Current rating</b>										
In ground	Amps	310	350	395	425	470	510	550	590	635
In ducts	Amps	285	315	350	385	420	460	495	525	565
In air	Amps	370	420	485	540	605	680	745	815	910
<b>Positive sequence</b>										
Resistance dc @ 20°C	Ω/km max	0,124	0,0991	0,0754	0,0601	0,0470	0,0366	0,0283	0,0221	0,0176
ac @ 70°C	Ω /km max	0,149	0,1196	0,0916	0,0737	0,0585	0,0468	0,0378	0,0313	0,0224
Reactance	Ω /km	0,124	0,120	0,116	0,111	0,108	0,104	0,101	0,098	0,096
Impedance	Ω /km	0,194	0,170	0,148	0,134	0,123	0,114	0,108	0,103	0,099
<b>Zero sequence</b>										
Resistance	Ω /km	0,324	0,284	0,244	0,187	0,164	0,142	0,126	0,112	0,082
Reactance	Ω /km	0,057	0,054	0,051	0,045	0,043	0,040	0,038	0,036	0,034
Impedance	Ω /km	1,051	1,040	1,029	1,017	1,013	1,010	1,008	1,006	1,003
<b>Short circuit ratings</b>										
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)	18,6	19,7	21,5	28,1	30,5	33,6	36,3	39,9	53,8

When ordering please quote: primary + size + table + finish code  
e.g. F1FC 1500 30 141 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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