

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

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

F1JC...  
...32 001  
...32 002  
...32 008

Primary group code  
Table + Finish code

Copper 1 Core  
1900/3300V  
Table 12  
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.	29.7	31.5	33.8	36.2	38.9	42.4	45.3	49.2	54.0
Diameter over lead sheath	mm app.	35.5	37.5	40.0	42.5	45.0	49.0	52.0	56.5	61.5
Overall diameter	mm app.	39.0	40.5	43.5	46.0	49.5	53.0	56.5	61.0	66.0
Normal drum length	m	500	500	500	500	500	500	500	500	500
Cable mass	kg/m app.	4.6	5.1	6.0	6.9	8.1	9.7	11.6	13.9	16.7
Gross mass ( drum length)	kg app.	2800	3050	3500	3950	4550	5350	6300	7450	8850
Bending radius	mm min.	975	1013	1088	1150	1238	1325	1413	1525	1650
<b>Current rating</b>										
In ground	Amps	315	360	415	470	530	595	665	730	855
In ducts	Amps	290	330	380	425	480	540	600	655	760
In air	Amps	370	420	500	570	660	760	865	975	1170
<b>Positive sequence</b>										
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	0.0916	0.0737	0.0586	0.0469	0.0379	0.0314	0.0225
Reactance	Ω/km	0.125	0.120	0.116	0.109	0.106	0.102	0.099	0.096	0.093
Impedance	Ω/km	0.194	0.170	0.148	0.132	0.121	0.112	0.106	0.101	0.096
<b>Zero sequence</b>										
Resistance	Ω/km	1.344	1.251	1.092	1.013	0.890	0.775	0.688	0.605	0.526
Reactance	Ω/km	0.072	0.068	0.064	0.058	0.054	0.051	0.048	0.045	0.042
Impedance	Ω/km	1.346	1.253	1.094	1.015	0.891	0.776	0.689	0.606	0.528
<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)	5.3	5.5	6.3	6.7	7.5	8.6	9.6	10.9	12.4

When ordering please quote: primary + size + table + finish code  
e.g. F1JC 1500 32 001 0K0S



Soil thermal resistance = 1,2Km/W  
Soil temperature = 25°C  
Depth of burial = 800mm  
Air temperature = 30°C  
+5% tolerance on dimensions

**POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS**