

# Medium Voltage Paper Insulated Lead Alloy Covered (PILAC)

PILC  
FRPVC DTA FRPVC (red stripe)  
LHPVC DTA LHPVC (blue stripe)

F1JA... Primary group code  
...41 191 Table + Finish code ...0K0S  
...41 292

Aluminium 3 Core  
19000/33000V  
Table 21  
SANS 97

Size code	...naaa...	3095*	3120*	3150*	3185*	3240*	3300*
Conductor size	mm <sup>2</sup> nom	95	120	150	185	240	300
Conductor diameter	mm app.	11,6	13,6	14,4	15,9	18,4	20,5
Insulated diameter	mm app.	26,6	28,6	29,4	30,9	33,4	35,5
Diameter over lead sheath	mm app.	65,0	69,0	71,5	74,5	80,5	85,5
Bedding diameter	mm app.	68,5	73,0	75,5	78,5	84,5	90,0
Thickness of DSTA	mm	0,8	0,8	0,8	0,8	0,8	0,8
Overall diameter	mm app.	78,5	83,5	86,0	90,0	95,5	101,5
Normal drum length	m	300	300	300	300	300	300
Cable mass	kg/m app.	11,9	13,2	14,2	15,6	17,6	19,9
Gross mass (drum length)	kg app.	4070	4460	4760	5180	5780	6470
Bending radius	mm min.	1178	1253	1290	1350	1433	1523
<b>Current rating</b>							
In ground	Amps	180	205	230	260	300	335
In ducts	Amps	155	175	195	220	255	285
In air	Amps	200	230	255	290	340	390
<b>Positive sequence</b>							
Resistance dc @ 20°C	Ω/km max	0,320	0,253	0,206	0,164	0,125	0,100
ac @ 70°C	Ω/km	0,385	0,304	0,248	0,198	0,151	0,121
Reactance	Ω/km	0,115	0,112	0,107	0,103	0,099	0,095
Impedance at	Ω/km	0,401	0,324	0,270	0,223	0,181	0,154
<b>Zero sequence</b>							
Resistance	Ω/km	1,812	1,583	1,440	1,292	1,129	0,978
Reactance	Ω/km	0,118	0,114	0,112	0,109	0,105	0,102
Impedance	Ω/km	1,816	1,588	1,445	1,296	1,134	0,983
<b>Short circuit ratings</b>							
Symmetrical	kA (1sec)	8,8	11,1	13,7	17,2	22,5	28,2
Earth fault(Symmetrical limit)	kA (1sec)	12,1(8,8)	13,5(11,1)	14,5(13,7)	15,9(17,2)	17,8(22,5)	20,3(28,2)

When ordering please quote: primary + size + table + finish code  
e.g. F1JA 3120 41 191 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**