

Medium Voltage Paper Insulated Lead Alloy Covered Cables (PILAC)

PILAC F1JC... Primary group code
FRPVC DTA FRPVC (red stripe) ...41 191 Table + Finish code
LHPVC DTA LHPVC (blue stripe) ...41 292

Copper 3 Core
19000/33000V
Table 21
SANS 97

Size code	...naaa...	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	*95	*120	*150	*185	*240	*300
Conductor diameter	mm app.	11,8	13,2	14,7	16,5	18,8	21,2
Insulated diameter	mm app.	26,8	28,2	29,7	31,5	33,8	36,2
Diameter over lead sheath	mm app.	65,0	68,5	72,0	76,0	81,5	87,0
Bedding diameter	mm app.	69,0	72,0	76,0	80,0	85,5	91,5
Thickness of DSTA	mm	0,80	0,80	0,80	0,80	0,80	0,80
Overall diameter	mm app.	79,0	82,5	86,5	91,0	96,5	103,0
Normal drum length	m	300	300	300	300	300	300
Cable mass	kg/m app.	13,7	15,3	17,0	19,2	22,2	25,8
Gross mass (drum length)	kg app.	4610	5090	5600	6260	7160	8240
Bending radius	mm min.	1185	1238	1298	1365	1448	1545
Current rating							
In ground	Amps	230	260	295	330	380	420
In ducts	Amps	200	225	250	285	325	360
In air	Amps	255	290	330	375	435	495
Positive sequence							
Resistance dc @ 20°C	Ω/km max	0,193	0,153	0,124	0,0991	0,0754	0,0601
ac @ 70°C	Ω/km	0,231	0,184	0,149	0,1198	0,0919	0,0741
Reactance	Ω/km	0,115	0,111	0,108	0,104	0,100	0,097
Impedance	Ω/km	0,258	0,215	0,184	0,158	0,136	0,121
Zero sequence							
Resistance	Ω/km	1,649	1,477	1,332	1,192	1,058	0,914
Reactance	Ω/km	0,118	0,115	0,111	0,108	0,104	0,101
Impedance	Ω/km	1,653	1,482	1,337	1,197	1,063	0,919
Short circuit ratings							
Symmetrical	kA (1sec)	13,8	17,4	21,5	26,9	35,3	44,3
Earth fault (Symmetrical limit)	kA (1sec)	12,3	13,4	14,7	16,2	18,0	20,7

*Circular Conductors
When ordering please quote: primary + size + table + finish code
e.g. F1JC 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



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