

Medium Voltage Paper Insulated Lead Alloy Covered (PILAC)

Aluminium 3 Core
19000/33000V
Table 21
SANS 97

PILAC F1JA... Primary group code
FRPVC SWA FRPVC (red stripe) ...41 111 Table + Finish code
LHPVC SWA LHPVC (blue stripe) ...41 212

Size code	...naaa...	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	95*	120*	150*	185*	240*	300*
Conductor diameter	mm app.	11,6	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
Size of armour wires	mm	3,15	3,15	3,15	3,15	3,15	3,15
Overall diameter	mm app.	81,5	86,5	89,0	92,5	98,5	104,5
Normal drum length	m	300	300	300	300	300	300
Cable mass	kg/m app.	14,6	16,0	17,2	18,7	20,8	23,4
Gross mass (drum length)	kg app.	4880	5300	5660	6110	6740	7520
Bending radius	mm min.	1223	1298	1335	1388	1478	1568
Current rating							
In ground	Amps	180	205	225	255	290	325
In ducts	Amps	155	175	195	220	250	275
In air	Amps	200	230	255	290	340	380
Positive sequence							
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	Ω/km	0,401	0,324	0,270	0,223	0,181	0,154
Zero sequence							
Resistance	Ω/km	0,912	0,791	0,712	0,635	0,553	0,488
Reactance	Ω/km	0,118	0,114	0,112	0,109	0,105	0,102
Impedance	Ω/km	0,919	0,799	0,721	0,644	0,562	0,498
Short circuit ratings							
Symmetrical	kA (1sec)	8,8	11,1	13,7	17,2	22,5	28,2
Earth fault(Symmetrical limit)	kA (1sec)	38,6(8,8)	41,6(11,1)	43,6(13,7)	46,1(17,2)	50,1(22,5)	54,7(28,2)

*Circular Conductor

When ordering please quote: primary + size + table + finish code

e.g. F1JA 3120 41 111 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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