

Medium Voltage Paper Insulated Lead Alloy Covered (PILAC)

Aluminium 1 Core
19000/33000V
Table 12
SANS 97

PILAC F1JA... Primary group code
FRPVC AWA FRPVC (red stripe) ...32 141 Table + Finish code
LHPVC AWA LHPVC (blue stripe) ...32 242

Size code	...naaa...	1150	1185	1240	1300	1400	1500	1630	1800	1999
Conductor size	mm ² nom	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	14,4	15,9	18,4	20,5	23,1	26,4	29,7	34,2	38,9
Insulated diameter	mm app.	29,4	30,9	33,4	35,5	38,1	41,4	44,8	49,2	54,0
Diameter over lead sheath	mm app.	35,0	36,5	39,5	41,5	44,5	48,0	51,5	56,5	61,5
Bedding diameter	mm app.	38,5	40,0	42,5	44,5	47,5	51,0	55,0	60,0	65,0
Size of armour wires	mm	2,50	2,50	2,50	2,50	2,50	2,50	3,15	3,15	3,15
Overall diameter	mm app.	48,0	49,5	52,5	55,0	58,0	61,5	67,0	72,5	77,5
Normal drum length	m	500	500	500	500	500	500	500	500	500
Cable mass	kg/m app.	4,9	5,2	5,9	6,4	7,2	8,3	9,8	11,3	13,0
Gross mass (drum length)	kg app.	2950	3100	3450	3700	4100	4650	5400	6150	7000
Bending radius	mm min.	1200	1238	1313	1375	1450	1538	1675	1813	1938
Current rating										
In ground	Amps	240	270	305	340	380	425	465	510	560
In ducts	Amps	220	245	280	310	345	380	415	450	495
In air	Amps	285	320	380	425	480	555	625	700	800
Positive sequence										
Resistance dc @ 20°C	Ω/km max	0,206	0,164	0,125	0,100	0,0778	0,0605	0,0469	0,0367	0,0291
ac @ 70°C	Ω/km	0,248	0,198	0,151	0,121	0,0948	0,0744	0,0586	0,0470	0,0358
Reactance	Ω/km	0,139	0,135	0,129	0,123	0,119	0,114	0,111	0,107	0,103
Impedance	Ω/km	0,284	0,239	0,199	0,172	0,152	0,136	0,126	0,117	0,109
Zero sequence										
Resistance	Ω/km	0,360	0,306	0,252	0,217	0,185	0,158	0,120	0,103	0,088
Reactance	Ω/km	0,073	0,069	0,065	0,059	0,055	0,052	0,048	0,045	0,042
Impedance	Ω/km	0,368	0,314	0,260	0,225	0,193	0,166	0,129	0,113	0,098
Short circuit ratings										
Symmetrical	kA (1sec)	13,7	17,2	22,5	28,2	36,2	46,5	60,0	76,7	96,8
Earth fault(Symmetrical limit)	kA (1sec)	28,6	29,7	32,1	33,6	36,2	39,3	51,8	56,6	61,8

Last updated January 2026

When ordering please quote: primary + size + table + finish code
e.g. F1JA 1500 32 141 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