

Medium Voltage Paper Insulated Lead Alloy Covered (PILAC)

PILAC F1FA... Primary group code Aluminium 1 Core 6350/11000V
 FRPVC AWA FRPVC (red stripe) ...30 141 Table + Finish code Table 10
 LHPVC AWA LHPVC (blue stripe) ...30 242 SANS 97

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	29,8	34,2	38,9
Insulated diameter	mm app.	22,4	23,9	26,4	28,5	31,1	34,4	37,7	42,2	46,9
Diameter over lead sheath	mm app.	27,5	29,0	32,0	34,0	37,0	40,5	44,0	49,0	53,5
Bedding diameter	mm app.	30,50	32,0	34,5	37,0	40,0	43,5	47,0	52,0	57,5
Size of armour wires	mm	2,00	2,0	2,0	2,50	2,50	2,50	2,50	2,50	3,15
Overall diameter	mm app.	38,5	40,0	43,0	47,0	50,0	53,5	57,5	62,5	69,5
Normal drum length	m	500	500	500	500	500	500	500	500	500
Cable mass	kg/m app.	3,3	3,6	4,2	4,8	5,6	6,5	7,5	8,8	10,8
Gross mass (drum length)	kg app.	2150	2300	2600	2900	3300	3750	4250	4900	5900
Bending radius	mm min.	770	800	860	940	1000	1070	1150	1250	1390
Current rating										
In ground	Amps	245	275	315	350	390	430	475	520	565
In ducts	Amps	225	250	290	315	350	390	430	465	500
In air	Amps	290	330	390	435	495	565	640	715	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 max	0,248	0,198	0,151	0,121	0,0949	0,0746	0,0589	0,0473	0,0358
Reactance	Ω/km	0,125	0,122	0,117	0,113	0,109	0,105	0,101	0,0978	0,0965
Impedance	Ω/km	0,278	0,232	0,191	0,166	0,145	0,129	0,117	0,109	0,103
Zero sequence										
Resistance	Ω/km	0,424	0,366	0,305	0,237	0,202	0,173	0,149	0,128	0,095
Reactance	Ω/km	0,057	0,055	0,051	0,046	0,044	0,041	0,038	0,036	0,034
Impedance	Ω/km	0,428	0,370	0,309	0,242	0,207	0,178	0,154	0,133	0,101
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)	18,4	19,3	21,3	27,5	29,9	32,9	35,9	39,9	53,8

Last updated January 2026

When ordering please quote: primary + size + table + finish code
 e.g, F1FA 1500 30 141 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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