

Medium Voltage Paper Insulated Lead Alloy Covered Cables (PILAC)

Copper 1 Core

3800/6600V

Table 9

SANS 97

PILAC
FRPVC AWA FRPVC (red stripe) ...29 141
LHPVC AWA LHPVC (blue stripe) ...29 242

F1EC...
...29 141
...29 242

Primary group code
Table + Finish code

Size code	...naaa...	1150	1185	1240	1300	1400	1500	1630
Conductor size	mm ² nom	150	185	240	300	400	500	630
Conductor diameter	mm nom	14,7	16,5	18,8	21,2	23,9	27,4	30,3
Insulated diameter	mm nom	20,9	22,8	25,0	27,5	30,2	33,6	37,0
Diameter over lead sheath	mm nom	24,5	26,0	28,5	31,5	34,0	37,5	41,0
Bedding diameter	mm nom	27,0	29,0	31,5	34,0	37,5	41,0	44,0
Size of armour wires	mm	2,00	2,00	2,00	2,00	2,50	2,50	2,50
Overall diameter	mm nom	35,0	37,0	39,5	42,0	47,0	51,0	54,0
Normal drum length	m	500	500	500	500	500	500	500
Cable mass	kg/m app.	3,7	4,2	5,1	6,0	7,4	8,8	10,7
Gross mass (drum length)	kg app.	2350	2600	3050	3500	4200	4900	5850
Bending radius	mm min.	700	740	790	840	940	1020	1080
Current rating								
In ground	Amps	340	380	430	475	510	560	605
In ducts	Amps	310	345	390	430	460	505	540
In air	Amps	400	455	530	600	660	740	820
Positive sequence								
Resistance dc @ 20°C	Ω/km max	0,124	0,0991	0,0754	0,0601	0,0470	0,0366	0,0283
ac @ 80°C	Ω/km	0,154	0,1235	0,0946	0,0761	0,0605	0,0483	0,0391
Reactance	Ω/km	0,118	0,114	0,110	0,104	0,103	0,099	0,096
Impedance at 80°C	Ω/km	0,194	0,168	0,145	0,129	0,120	0,111	0,104
Zero sequence								
Resistance	Ω/km	0,353	0,310	0,265	0,233	0,175	0,153	0,135
Reactance	Ω/km	0,047	0,045	0,043	0,038	0,036	0,034	0,032
Impedance	Ω/km	0,356	0,313	0,268	0,236	0,179	0,157	0,139
Short circuit ratings								
Symmetrical	kA (1sec)	20,7	25,9	34,1	42,8	54,7	70,2	90,8
Earth fault(Symmetrical limit)	kA (1sec)	16,2	17,3	19,0	20,9	28,0	30,5	33,2

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

e.g. F1EC 1500 29 141 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