

33kV MV PILC Copper Технические характеристики



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Copper I Core

PILC/PILAC
FRPVC AWA FRPVC (red stripe)
LHPVC AWA LHPVC (blue stripe)

FIJC...
...32141
...32242

Primary group code
Table + Finish code

19000/33000V
Table 12
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.	14.7	16.5	18.8	21.2	23.9	27.4	30.3	34.2	38.9
Insulated diameter	mm app.	29.7	31.5	33.8	36.2	38.9	42.4	45.3	49.2	54
Diameter over lead sheath	mm app.	35.5	37.5	40	42.5	45	49	52	56.5	61.5
Bedding diameter	mm app.	38.5	40.5	43	45.5	48.5	52	55.5	60	65
Size of armour wires	mm	2.5	2.5	2.5	2.5	2.5	2.5	3.15	3.15	3.15
Overall diameter	mm app.	48.5	50.5	53	55.5	58.5	62.5	68	72.5	77.5
Normal drum length	m	500	500	500	500	500	500	500	500	500
Cable mass	kg/m app.	5.8	6.4	7.4	8.3	9.7	11.4	13.8	16.3	19.2
Gross mass (drum length)	kg app.	3400	3700	4200	4650	5350	6200	7400	8650	10100
Bending radius	mm min.	1213	1263	1325	1388	1463	1563	1700	1813	1938
Current rating										
In ground	Amps	300	335	380	420	460	505	540	575	635
In ducts	Amps	275	305	345	380	415	450	480	510	560
In air	Amps	360	410	470	530	600	670	735	805	915
Positive sequence										
Resistance dc @ 20°C	W/km max	0.124	0.099	0.075	0.06	0.047	0.037	0.028	0.022	0.018
ac @ 70°C	W/km max	0.149	0.119	0.091	0.074	0.058	0.047	0.037	0.031	0.022
Reactance	W/km	0.138	0.134	0.129	0.121	0.117	0.113	0.111	0.107	0.103
Impedance	W/km	0.203	0.179	0.158	0.142	0.131	0.122	0.117	0.111	0.106
Zero sequence										
Resistance	W/km	0.261	0.226	0.191	0.168	0.147	0.128	0.098	0.087	0.075
Reactance	W/km	0.072	0.068	0.064	0.058	0.054	0.051	0.048	0.045	0.042
Impedance	W/km	0.271	0.236	0.202	0.178	0.156	0.138	0.109	0.098	0.086
Short circuit ratings										
Symmetrical	kA (1sec)	21.5	26.9	35.3	44.3	56.7	72.8	94.1	121	151
Earth fault(Symmetrical limit)	kA (1sec)	28.9	30.3	32.4	34.3	36.8	40	52.3	56.6	61.8

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



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PILC/PILAC
FRPVC (red stripe)
LHPVC (blue stripe)

FIJC... Primary group code
...32001 Table + Finish code
...32002

Copper 1 Core
1900/3300V
Table 12
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.	14.7	16.5	18.8	21.2	23.9	27.4	30.3	34.2	38.9
Insulated diameter	mm app.	29.7	31.5	33.8	36.2	38.9	42.4	45.3	49.2	54.0
Diameter over lead sheath	mm app.	35.5	37.5	40.0	42.5	45.0	49.0	52.0	56.5	61.5
Overall diameter	mm app.	39.0	40.5	43.5	46.0	49.5	53.0	56.5	61.0	66.0
Normal drum length	m	500	500	500	500	500	500	500	500	500
Cable mass	kg/m app.	4.6	5.1	6.0	6.9	8.1	9.7	11.6	13.9	16.7
Gross mass (drum length)	kg app.	2800	3050	3500	3950	4550	5350	6300	7450	8850
Bending radius	mm min.	975	1013	1088	1150	1238	1325	1413	1525	1650
Current rating										
In ground	Amps	315	360	415	470	530	595	665	730	855
In ducts	Amps	290	330	380	425	480	540	600	655	760
In air	Amps	370	420	500	570	660	760	865	975	1170
Positive sequence										
Resistance dc @ 20°C	Ω/km max	0.1240	0.0991	0.0754	0.0601	0.0470	0.0366	0.0283	0.0221	0.0176
ac @ 70°C	Ω/km max	0.149	0.120	0.0916	0.0737	0.0586	0.0469	0.0379	0.0314	0.0225
Reactance	Ω/km	0.125	0.120	0.116	0.109	0.106	0.102	0.099	0.096	0.093
Impedance	Ω/km	0.194	0.170	0.148	0.132	0.121	0.112	0.106	0.101	0.096
Zero sequence										
Resistance	Ω/km	1.344	1.251	1.092	1.013	0.890	0.775	0.688	0.605	0.526
Reactance	Ω/km	0.072	0.068	0.064	0.058	0.054	0.051	0.048	0.045	0.042
Impedance	Ω/km	1.346	1.253	1.094	1.015	0.891	0.776	0.689	0.606	0.528
Short circuit ratings										
Symmetrical	kA (1sec)	21.5	26.9	35.3	44.3	56.7	72.8	94.1	121	151
Earth fault(Symmetrical limit)	kA (1sec)	5.3	5.5	6.3	6.7	7.5	8.6	9.6	10.9	12.4

When ordering please quote: primary + size + table + finish code
e.g. FIJC 1500 32 001



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PILC
FRPVC DTA FRPVC (red stripe)
LHPVC DTA LHPVC (blue stripe)

FIJC... Primary group code
...21191 Table + Finish code
...21292

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 max	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

When ordering please quote: primary + size + table + finish code
e.g. FIJC 3120 21 191



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