

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 <sup>2</sup> 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
<b>Current rating</b>										
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
<b>Positive sequence</b>										
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
<b>Zero sequence</b>										
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
<b>Short circuit ratings</b>										
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

Last updated May 2006

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



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