

Copper I Core
I2700/22000V
Table II
SANS 97

PILC/PILAC
FRPVC AWA FRPVC (red stripe) ...31141
LHPVC AWA LHPVC (blue stripe) ...31242

FIHC... Primary group code
Table + Finish code

Size code	...naaa...	I 150	I 185	I 240	I 300	I 400	I 500	I 630	I 800	I 999
Conductor size	mm ² nom	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm nom	14.7	16.5	18.8	21.2	23.9	27.4	30.3	34.2	38.9
Insulated diameter	mm nom	27.7	29.5	31.8	34.2	36.9	40.4	43.3	47.2	52.0
Diameter over lead sheath	mm nom	33.5	35.0	37.5	40.5	43.0	46.5	50.0	54.0	59.0
Bedding diameter	mm nom	36.0	38.0	40.5	43.5	46.5	50.0	53.5	57.5	63.0
Size of armour wires	mm	2.00	2.50	2.50	2.50	2.50	2.50	3.15	3.15	3.15
Overall diameter	mm nom	44.5	48.0	50.5	53.5	56.5	60.0	65.5	70.0	75.5
Normal drum length	m	500	500	500	500	500	500	500	500	500
Cable mass	kg/m app.	5.1	5.9	6.9	7.9	9.3	10.8	13.1	15.6	18.7
Gross mass (drum length)	kg app.	3050	3450	3950	4450	5150	5900	7050	8300	9850
Bending radius	mm min.	1113	1200	1263	1338	1413	1500	1638	1750	1888
Current rating										
In ground	Amps	305	340	380	420	465	510	540	580	640
In ducts	Amps	280	310	350	380	420	455	480	515	565
In air	Amps	365	410	475	535	600	675	735	810	920
Positive sequence										
Resistance dc @ 20°C	Ω/km max	0.124	0.0991	0.0754	0.0601	0.0470	0.0366	0.0283	0.0221	0.0176
ac @ 70°C	Ω/km max	0.149	0.119	0.0915	0.0735	0.0584	0.0466	0.0375	0.0309	0.0223
Reactance	Ω/km	0.133	0.130	0.126	0.119	0.115	0.110	0.108	0.105	0.101
Impedance at 70°C	Ω/km	0.200	0.177	0.156	0.140	0.129	0.120	0.115	0.109	0.104
Zero sequence										
Resistance	Ω/km	0.298	0.233	0.197	0.172	0.150	0.132	0.101	0.089	0.076
Reactance	Ω/km	0.068	0.064	0.061	0.054	0.051	0.048	0.045	0.043	0.040
Impedance	Ω/km	0.305	0.241	0.206	0.181	0.159	0.140	0.110	0.099	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)	22.0	28.3	30.5	32.7	35.3	37.9	49.9	54.1	59.9

Last updated May 2006

When ordering please quote: primary + size + table + finish code
e.g. FIHC I500 31 141



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