

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

FIEA...
...16191
...16292

Primary group code
Table + Finish code

Aluminium 3 Core
6600/6600V
Table 16
SANS 97

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm ² nom	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm nom	5.9	7	8.3	8.3	9.8	11	12.2	13.7	15.7	17.6
Insulated depth	mm nom	10.4	11.5	12.8	12.8	14.3	15.5	16.7	18.2	20.2	22.1
Diameter over lead sheath	mm nom	30.5	32.5	36	35.5	38.5	41.5	44	47.5	52	56.5
Bedding diameter	mm nom	33	35.5	38.5	38.5	42	44.5	48	51	55.5	60
Size of armour wires	mm	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Overall diameter	mm nom	40.5	43.5	46.5	47	50.5	53.5	57	60.5	65.5	70.5
Normal drum length	m	500	500	500	300	300	300	300	300	300	300
Cable mass	kg/m app.	3.8	4.2	4.8	5.2	6	6.8	7.7	8.7	10.2	11.8
Gross mass (drum length)	kg app.	2150	2350	2650	2060	2300	2540	2810	3110	3560	4040
Bending radius	mm min.	486	522	558	564	606	642	684	726	786	846
Current rating											
In ground	Amps	89	110	130	155	190	215	240	275	320	365
In ducts	Amps	75	90	110	130	160	180	205	235	270	310
In air	Amps	89	110	130	160	200	230	260	300	360	415
Positive sequence											
Resistance dc @ 20°C	Ω/km max	1.2	0.87	0.64	0.44	0.32	0.25	0.21	0.16	0.13	0.1
ac @ 80°C	Ω /km max	1.49	1.08	0.8	0.55	0.4	0.32	0.26	0.21	0.16	0.13
Reactance	Ω /km	0.1	0.1	0.09	0.08	0.07	0.07	0.07	0.07	0.06	0.06
Impedance at 80°C	Ω /km	1.49	1.08	0.8	0.56	0.4	0.32	0.27	0.22	0.17	0.14
Zero sequence											
Resistance	Ω /km	6.58	5.78	4.79	4.37	3.68	3.2	2.82	2.46	2.12	1.77
Reactance	Ω /km	0.14	0.13	0.13	0.13	0.12	0.12	0.11	0.11	0.1	0.1
Impedance	Ω /km	6.58	5.78	4.8	4.37	3.68	3.2	2.82	2.46	2.12	1.77
Short circuit ratings											
Symmetrical	kA (1sec)	2.3	3.2	4.4	6.4	8.8	11.1	13.7	17.2	22.5	28.2
Earth fault(Symmetrical limit)	kA (1sec)	3.4(2.3)	3.6(3.2)	4.3	4.6	5.3	6	6.8	7.7	8.9	10.6

Last updated May 2006

* Circular Conductor
When ordering please quote: primary + size + table + finish code
e.g. FIEA312016191



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