

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

FIEC...  
...16191  
...16292

Primary group code  
Table + Finish code

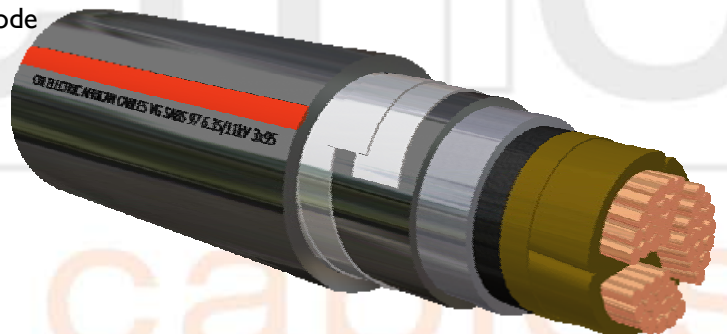
Copper 3 Core  
6600/6600V  
Table 16  
SABS 97

Size code	...naaa...	3016	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
Conductor size	mm <sup>2</sup> nom	16*	25*	35*	50*	70	95	120	150	185	240	300
Conductor depth	mm nom	5.2	6.1	7.2	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm nom	9.7	10.6	11.7	12.8	12.8	14.3	15.5	16.7	18.2	20.2	22.1
Diameter over lead sheath	mm nom	28.5	31.0	33.0	36.0	35.5	38.5	41.5	44.0	47.5	52.0	56.5
Bedding diameter	mm nom	31.0	33.5	36.0	38.5	38.5	42.0	44.5	48.0	51.0	55.5	60.0
Thickness of DSTA	mm	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Overall diameter	mm nom	38.5	41.0	43.5	46.5	47.0	50.5	53.5	57.0	60.5	65.5	70.5
Normal drum length	m	500	500	500	500	300	300	300	300	300	300	300
Cable mass	kg/m app.	3.7	4.3	4.9	5.7	6.4	7.8	9.0	10.4	12.1	14.6	17.4
Gross mass ( drum length)	kg app.	2100	2400	2700	3100	2420	2840	3200	3620	4130	4880	5720
Bending radius	mm min.	462	492	522	558	564	606	642	684	726	786	846
Current rating												
In ground	Amps	89	115	140	165	200	245	280	310	355	410	460
In ducts	Amps	75	97	115	140	170	205	235	265	300	345	390
In air	Amps	88	115	140	170	210	255	295	335	385	455	525
Positive sequence												
Resistance dc @ 20°C	Ω/km max	1.150	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601
ac @ 80°C	Ω/km max	1.421	0.899	0.648	0.479	0.332	0.239	0.190	0.155	0.124	0.0955	0.0773
Reactance	Ω/km	0.105	0.101	0.096	0.093	0.075	0.071	0.069	0.067	0.065	0.063	0.061
Impedance at 80°C	Ω/km	1.425	0.904	0.655	0.487	0.340	0.249	0.202	0.168	0.140	0.114	0.098
Zero sequence												
Resistance	Ω/km	7.249	5.901	5.283	4.475	4.147	3.518	3.077	2.714	2.378	2.054	1.719
Reactance	Ω/km	0.145	0.138	0.131	0.125	0.127	0.121	0.116	0.112	0.108	0.104	0.100
Impedance	Ω/km	7.251	5.903	5.285	4.477	4.149	3.520	3.079	2.716	2.381	2.056	1.722
Short circuit ratings												
Symmetrical	kA (1sec)	2.3	3.7	5.1	6.9	9.9	13.8	17.4	21.5	26.9	35.3	44.3
Earth fault(Symmetrical limit)	kA (1sec)	2.9(2.3)	3.5	3.7	4.3	4.6	5.3	6.0	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. FIEC 3120 16 191



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

A member of the REUNERT Group

**CBI Electric African Cables**  
PO Box 172, Vereeniging 1930 • Tel: +27 16 430 6000 • Fax: +27 16 423 6103  
www.cbi-electric.com • afcab@cbi-electric.com

