

Aluminium 3 Core

I1000/I1000V

Table 18

SANS 97

PILC/PILAC
 FRPVC SWA FRPVC (red stripe) ...18111 Table + Finish code
 LHPVC SWA LHPVC (blue stripe) ...18212

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 app.	5.9	7.0	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulated depth	mm app.	12.2	13.2	14.6	14.6	16.0	17.2	18.4	19.9	21.9	23.9
Diameter over lead sheath	mm app.	36.0	38.5	41.5	41.0	44.5	47.0	49.5	53.0	58.0	62.0
Bedding diameter	mm app.	38.4	40.9	44.5	44.0	47.5	50.5	53.0	56.5	62.0	66.0
Size of armour wires	mm	2.50	2.50	2.50	2.50	3.15	3.15	3.15	3.15	3.15	3.15
Overall diameter	mm app.	48.5	51.0	55.0	54.5	59.5	63.0	66.0	69.5	74.5	79.5
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m app.	5.9	6.5	7.4	7.7	9.4	10.2	11.2	12.4	14.4	16.2
Gross mass (drum length)	kg app.	3350	3650	2620	2710	3220	3405	3705	4135	4845	5430
Bending radius	mm min.	582	612	660	654	714	756	792	834	894	954
Current rating											
In ground	Amps	81	97	115	140	170	195	220	250	290	330
In ducts	Amps	70	84	99	120	145	165	190	215	250	285
In air	Amps	81	98	120	145	180	205	235	270	320	370
Positive sequence											
Resistance dc @ 20°C	Ω/km max	1.200	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100
ac @ 70°C	Ω/km max	1.442	1.043	0.770	0.533	0.385	0.305	0.248	0.198	0.152	0.122
Reactance	Ω/km	0.111	0.106	0.101	0.082	0.077	0.075	0.073	0.070	0.068	0.066
Impedance	Ω/km	1.446	1.048	0.777	0.539	0.393	0.314	0.259	0.211	0.167	0.139
Zero sequence											
Resistance	Ω/km	2.700	2.200	1.816	1.572	1.193	1.067	0.959	0.855	0.740	0.659
Reactance	Ω/km	0.151	0.144	0.136	0.139	0.132	0.127	0.123	0.118	0.113	0.109
Impedance	Ω/km	2.704	2.205	1.821	1.578	1.200	1.075	0.967	0.863	0.749	0.668
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)	16.0	17.8	19.6	19.6	25.5	27.0	28.9	31.1	34.6	37.7

Last updated May 2006

* Circular Conductor

When ordering please quote: primary + size + table + finish code
 e.g. FIFA 3120 18 111



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