

Description:	6.35/11kV, Aluminium, PILC/PILAC, 3 Core, Table 19	F1FA...Primary Code
Bedding/Armouring/Sheathing	FRPVC/ DSTA/ FRPVC (Red stripe) LHFRPVC/ DSTA/ LHFRPVC (Blue stripe)	...19 191 Table + Finish Code ...19 292
Specification:	SANS 97	Last updated: January 2020

Size code	...n/a...	3025	3035	3050	3070	3095	3120	3150	3185	3240	3300
PHYSICAL DIMENSIONS											
Conductor size	mm ²	25*	35*	50*	70	95	120	150	185	240	300
Conductor	mm app.	5.9	7.0	8.3	8.3	9.8	11.0	12.2	13.7	15.7	17.6
Insulation diameter/depth	mm app.	12.7	13.7	15.1	15.1	16.5	17.7	18.9	20.4	22.4	24.4
Diameter over lead	mm app.	32.5	35.0	38.0	37.5	41.0	43.5	46.0	49.5	54.0	58.5
Bedding diameter	mm app.	35.5	37.5	41.0	40.5	44.0	46.5	49.5	53.0	58.0	62.0
Size of steel tape amour	mm app.	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Cable diameter	mm app.	43.5	46.0	49.0	49.0	52.5	55.5	59.0	63.0	67.5	72.5
Normal drum length	m	500	500	300	300	300	300	300	300	300	300
Cable mass	kg/m	4.3	4.7	5.3	5.7	6.5	7.2	8.2	9.2	10.8	12.4
Gross mass	kg app.	2650	2850	2090	2210	2450	2660	2960	3260	3740	4220
Bending radius	mm min.	522	552	588	588	630	666	708	756	810	870
DC Resistance @ 20°C	Ω/km	1.200	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100
AC Resistance @ 70°C	Ω/km	1.442	1.043	0.770	0.533	0.385	0.305	0.248	0.198	0.151	0.122
Reactance	Ω/km	0.116	0.109	0.105	0.087	0.081	0.079	0.076	0.074	0.071	0.069
Impedance	Ω/km	1.447	1.049	0.777	0.540	0.393	0.314	0.260	0.211	0.167	0.139
Capacitance	μF/km	0.325	0.365	0.414	0.413	0.465	0.509	0.552	0.606	0.678	0.748
Zero Sequence											
Resistance	Ω/km	5.851	5.143	4.291	3.915	3.317	3.055	2.694	2.360	1.947	1.707
Reactance	Ω/km	0.119	0.113	0.109	0.111	0.106	0.103	0.100	0.097	0.094	0.091
Impedance	Ω/km	5.852	5.144	4.292	3.917	3.319	3.057	2.696	2.362	1.949	1.710
Current rating:											
In ground	Amps	90	108	130	157	187	213	238	269	312	351
In ducts	Amps	75	89	105	129	155	176	197	224	260	293
In air in shade	Amps	93	112	135	167	202	233	263	302	356	407
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	kA (1sec)	3.9	4.2	4.9	5.1	5.9	6.3	7.1	8.0	9.7	11.0

When ordering please quote:

Primary + size + Table No. + finish code e.g. F1FA 3025 19 191 **Pure Lead**

Or F1FA 3025 39 191 **Lead Alloy E**

*Circular Conductors

Ratings above are based on standard laying conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

Soil temperature = 25°C

Depth of burial = 800mm

Air temperature = 30°C

5% tolerance on dimensions



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