

1kV LV ABC Core plus Технические характеристики



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LV ABC
XLPE
SELF SUPPORT

F7CA... Primary group code
...SA0 Finish code

Aluminium I core
600/1000V
ABC
SANS 1418

Size code	...naaa...	2016	2025	2035	2050	2070	2095	2120	2150
Conductor size	mm ² nom	16	25	35	50	70	95	120	150
Conductor diameter	mm app.	5.0	6.2	7.0	8.2	9.8	11.6	13.5	14.4
Core diameter	mm app.	7.5	9.2	10.3	11.5	13.6	15.4	17.3	18.2
Cable mass	kg/m app.	0.06	0.10	0.13	0.17	0.24	0.32	0.39	0.47
Gross mass (500 m)	kg app.	160	194	228	288	359	472	557	788
Design Load (UTS/2.5)	kN max	1.66	2.64	3.60	4.96	7.12	9.84	12.48	15.36
Current rating									
In air	Amps	87	111	138	168	213	258	300	339
Resistance									
dc @ 20°C	Ω/km max	1.910	1.200	0.868	0.641	0.443	0.320	0.253	0.206
ac @ 90°C	Ω/km max	2.372	1.539	1.113	0.822	0.568	0.411	0.325	0.265
Reactance	Ω/km	0.091	0.090	0.090	0.084	0.083	0.080	0.078	0.077
Impedance	Ω/km	2.374	1.541	1.117	0.826	0.574	0.419	0.334	0.276
Short Circuit rating									
(Single Phase)Volt Drop	kA (Isec)	1.4	2.2	3.0	4.1	5.9	8.2	10.3	12.7
	mV/A/m	4.75	3.08	2.23	1.65	1.15	0.84	0.67	0.55

When ordering please quote: primary + size + finish code
e.g. F7CA 2016SA0



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

A member of the REUNERT Group



LV ABC

XLPE

SANS SUPPORT

F7CA... Primary group code

...SD0 Finish code

Aluminium 2 core + Support

600/1000V

ABC

SANS 1418

Size code	...naaa...	2016	2025	2035	2050	2070	2095	2120	2150
Conductor size	mm ² nom	16	25	35	50	70	95	120	150
Conductor diameter	mm app.	5.0	6.2	7.0	8.2	9.8	11.6	13.5	14.4
Core diameter	mm app.	7.5	9.2	10.3	11.5	13.6	15.4	17.3	18.2
Assembled diameter	mm app.	28.5	31.5	34.0	36.0	40.5	44.0	48.0	49.5
Support Core size	mm ² nom	54.6	54.6	54.6	54.6	54.6	54.6	70	70
Cable mass	kg/m app.	0.33	0.40	0.47	0.54	0.69	0.84	0.99	1.14
Gross mass (500 m)	kg app.	262	296	331	390	461	516	815	890
Design Load (UTS/2.5)	kN max	6.6	6.6	6.6	6.6	6.6	6.6	8.0	8.0
Current rating									
In air	Amps	87	111	138	168	213	258	300	339
Resistance									
dc @ 20°C	Ω/km max	1.91	1.200	0.868	0.641	0.443	0.320	0.253	0.206
ac @ 90°C	Ω/km max	2.372	1.539	1.113	0.822	0.568	0.411	0.325	0.265
Reactance	Ω/km	0.091	0.090	0.090	0.084	0.083	0.080	0.078	0.077
Impedance	Ω/km	2.374	1.541	1.117	0.826	0.574	0.419	0.334	0.276
Short Circuit rating	kA (1sec)	1.4	2.2	3.0	4.1	5.9	8.2	10.3	12.7
(Single Phase) Volt Drop	mV/A/m	4.75	3.08	2.23	1.65	1.15	0.84	0.67	0.55

When ordering please quote: primary + size + finish code

e.g. F7CA 2120 SE0



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LV ABC
XLPE
Self Support

F7CA... Primary group code
...SA0 Finish code

Aluminium 3 core + Neutral
600/1000V
ABC
SANS 1418

Size code	...naaa...	4025	4035	4050	4070	4095	4120	4150
Conductor size	mm ² nom	25	35	50	70	95	120	150
Conductor diameter	mm app.	6.2	7	8.2	9.8	11.6	13.5	14.4
Core diameter	mm app.	9.2	10.3	11.5	13.6	15.4	17.3	18.2
Assembled diameter	mm app.	22.1	24.9	27.8	32.8	37.1	41.7	43.9
Cable mass	kg/m app.	0.39	0.53	0.68	0.96	1.27	1.57	1.87
Gross mass (500 m)	kg app.	197	265	340	482	636	786	937
Design Load (UTS/2.5)								
Combined	kN max	5.3	7.2	10	14	20	25	31
Current rating								
In air	Amps	111	138	168	213	258	300	339
Resistance								
dc @ 20°C	Ω/km max	1.2	0.868	0.641	0.443	0.32	0.253	0.206
ac @ 90°C	Ω/km max	1.539	1.113	0.822	0.568	0.411	0.325	0.265
Reactance	Ω/km	0.09	0.09	0.084	0.083	0.08	0.078	0.077
Impedance	Ω/km	1.541	1.117	0.826	0.574	0.419	0.334	0.276
Short Circuit rating	kA (1sec)	2.2	3	4.1	5.9	8.2	10.3	12.7
(Three Phase) Volt drop	mV/A/m	2.67	1.94	1.43	0.99	0.73	0.58	0.48

When ordering please quote: primary + size + finish code
e.g. F7CA 4120 SA0



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

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LV ABC
XLPE
Self Support +
1 x 25mm² auxiliary

F7CA... Primary group code
...SAI Finish code

Aluminium 3 core + Neutral + auxiliary
600/1000V
ABC
SANS 1418

Size code	...naaa...	4025	4035	4050	4070	4095	4120	4150
Conductor size	mm ² nom	25	35	50	70	95	120	150
Conductor diameter	mm app.	6.2	7.0	8.2	9.8	11.6	13.5	14.4
Core diameter	mm app.	9.2	10.3	11.5	13.6	15.4	17.3	18.2
Assembled diameter	mm app.	22.1	24.9	27.8	32.8	37.1	41.7	43.9
Cable mass	kg/m app.	0.49	0.63	0.78	1.06	1.37	1.67	1.97
Gross mass (500 m)	kg app.	198	266	341	483	637	787	938
Design Load (UTS/2.5) Combined	kN max	5.3	7.2	10	14	20	25	31
Current rating In air	Amps	111	138	168	213	258	300	339
Resistance dc @ 20°C	Ω/km max	1.200	0.868	0.641	0.443	0.320	0.253	0.206
ac @ 90°C	Ω/km max	1.539	1.113	0.822	0.568	0.411	0.325	0.265
Reactance	Ω/km	0.090	0.090	0.084	0.083	0.080	0.078	0.077
Impedance	Ω/km	1.541	1.117	0.826	0.574	0.419	0.334	0.276
Short Circuit rating (Three Phase) Volt drop	kA (1sec) mV/A/m	2.2 2.67	3.0 1.94	4.1 1.43	5.9 0.99	8.2 0.73	10.3 0.58	12.7 0.48

When ordering please quote: primary + size + finish code
e.g. F7CA 4120 SAI



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

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LV ABC
XLPE
SUPPORT +
1 x 25mm² auxiliary

F7CA... Primary group code
...SDI Finish code

Aluminium 3 core + Support + auxiliary
600/1000V
ABC
SANS 1418

Size code	...naaa...	3025	3035	3050	3070	3095	3120	3150
Conductor size	mm ² nom	25	35	50	70	95	120	150
Conductor diameter	mm app.	6.2	7.0	8.2	9.8	11.6	13.5	14.4
Core diameter	mm app.	9.2	10.3	11.5	13.6	15.4	17.3	18.2
Assembled diameter	mm app.	33.0	35.5	38.0	42.5	46.5	50.5	52.5
Support Core size	mm ² nom	54.6	54.6	54.6	54.6	54.6	70	70
Cable mass	kg/m app.	0.60	0.70	0.81	1.02	1.26	1.53	1.76
Gross mass (500 m)	kg app.	394	445	524	630	724	1085	1198
Design Load (UTS/2.5)	kN max	6.6	6.6	6.6	6.6	6.6	8.0	8.0
Current rating								
In air	Amps	111	138	168	213	258	300	339
Resistance								
dc @ 20°C	Ω/km max	1.200	0.868	0.641	0.443	0.320	0.253	0.206
ac @ 90°C	Ω/km max	1.539	1.113	0.822	0.568	0.411	0.325	0.265
Reactance								
Impedance	Ω/km	0.090	0.090	0.084	0.083	0.080	0.078	0.077
Short Circuit rating								
(Three Phase) Volt Drop	kA (1sec) mV/A/m	2.2 2.67	3.0 1.93	4.1 1.43	5.9 0.99	8.2 0.73	10.3 0.58	12.7 0.48

When ordering please quote: primary + size + finish code
e.g. F7CA 3120 SEI



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LV ABC

XLPE

SANS SUPPORT

F7CA... Primary group code

...SD0 Finish code

Aluminium 3 core + Support

600/1000V

ABC

SANS 1418

Size code	...naaa...	3016	3025	3035	3050	3070	3095	3120	3150
Conductor size	mm ² nom	16	25	35	50	70	95	120	150
Conductor diameter	mm app.	5.0	6.2	7.0	8.2	9.8	11.6	13.5	14.4
Core diameter	mm app.	7.5	9.2	10.3	11.5	13.6	15.4	17.3	18.2
Assembled diameter	mm app.	29.3	33.0	35.5	38.0	42.5	46.5	50.5	52.5
Support Core size	mm ² nom	54.6	54.6	54.6	54.6	54.6	54.6	70	70
Cable mass	kg/m app.	0.40	0.50	0.61	0.72	0.93	1.16	1.44	1.66
Gross mass (500 m)	kg app.	294	346	399	476	583	676	1040	1150
Design Load (UTS/2.5)	kN max	6.6	6.6	6.6	6.6	6.6	6.6	8.0	8.0
Current rating									
In air	Amps	87	111	138	168	213	258	300	339
Resistance									
dc @ 20°C	Ω/km max	1.91	1.200	0.868	0.641	0.443	0.320	0.253	0.206
ac @ 90°C	Ω/km max	2.372	1.539	1.113	0.822	0.568	0.411	0.325	0.265
Reactance	Ω/km	0.091	0.090	0.090	0.084	0.083	0.080	0.078	0.077
Impedance	Ω/km	2.374	1.541	1.117	0.826	0.574	0.419	0.334	0.276
Short Circuit rating	kA (1sec)	1.4	2.2	3.0	4.1	5.9	8.2	10.3	12.7
(Three Phase) Volt Drop	mV/A/m	4.11	2.67	1.93	1.43	0.99	0.73	0.58	0.48

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e.g. F7CA 3120 SE0



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