

Low Voltage XLPE Cables

XLPE
FRPVC SWA FRPVC (red stripe)
LHPVC SWA LHPVC (blue stripe)

F2CA...Primary group code
...111 Finish code
...212

Aluminium 4 Core
600/1000V
SANS 1507

Size code	...naaa...	4025	4035	4050	4070	4095	4120	4150	4185	4240	4300	4400
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300	400
Conductor diameter	mm app.	6.0	7.0	8.0	9.5	11.0	12.5	14.0	16.0	18.0	20.0	22.5
Insulation diameter	mm app.	7.5	8.5	10.0	12.0	13.5	15.0	17.0	19.0	21.5	24.0	27.0
Bedding diameter	mm app.	20.5	23.0	26.0	30.5	34.0	38.0	42.5	47.5	53.0	58.0	65.0
Armour diameter	mm app.	23.0	25.5	30.0	34.5	38.0	42.0	47.5	52.0	58.0	63.0	71.5
Cable diameter	mm app.	26.5	29.0	33.5	38.5	42.5	47.0	52.5	57.5	63.5	69.5	78.0
Cable mass	kg/m app.	1.2	1.4	2.0	2.6	3.1	3.7	4.7	5.5	6.6	7.8	10.1
Gross mass (300 m)	kg app.	400	450	670	900	1150	1300	1750	1900	2400	2750	3400
Bending radius	mm min.	265	290	335	385	425	470	525	575	635	695	780
Current rating												
In ground	Amps	110	130	155	190	225	260	290	330	380	430	480
In ducts	Amps	88	105	125	155	185	215	240	275	320	360	410
In air	Amps	100	125	150	190	235	270	310	360	425	490	560
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	0.0778
ac @ 90°C	Ω/km max	1.539	1.113	0.822	0.569	0.411	0.326	0.266	0.212	0.163	0.131	0.104
Reactance	Ω/km	0.074	0.075	0.073	0.070	0.068	0.067	0.069	0.069	0.067	0.067	0.065
Impedance	Ω/km	1.541	1.116	0.826	0.573	0.417	0.332	0.274	0.223	0.176	0.147	0.122
Zero Sequence												
Reactance	Ω/km	0.061	0.060	0.054	0.056	0.056	0.057	0.056	0.058	0.058	0.059	0.057
Resistance	Ω/km	7.700	6.766	3.951	3.208	2.808	2.475	1.799	1.586	1.409	1.271	0.900
Short circuit ratings												
Symmetrical	kA (1sec)	2.1	3.0	4.0	5.9	8.1	10.3	12.7	16.0	20.9	26.2	33.6
Earth fault	kA (1sec)	3.1	3.4	6.2	7.3	8.1	9.1	12.7	14.3	15.8	17.3	24.7
(Three Phase) Volt Drop	mV/A/m	2.669	1.933	1.429	0.992	0.721	0.575	0.475	0.385	0.305	0.255	0.211

Last updated October 2016

When ordering please quote: primary + size + finish code

e.g. F2CA 4025 111



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CBI Electric African Cables

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