

Low Voltage XLPE Cables

XLPE F2CC... Primary group code Copper 4 Core
 FRPVC SWA FRPVC (red stripe) ...111 Finish code 600/1000V
 LHPVC SWA LHPVC (blue stripe) ...212 SANS 1507

Size code	...naaa...	4025	4035	4050	4070	4095	4120	4150	4185	4240	4300
Conductor size	mm ² nom	25	35	50	70	95	120	150	185	240	300
Conductor diameter	mm app.	6.0	7.0	8.0	9.5	11.0	12.5	14.0	15.5	18.0	20.0
Insulation diameter	mm app.	7.5	8.5	10.0	12.0	13.5	15.0	17.0	19.0	21.5	24.0
Bedding diameter	mm app.	20.5	22.5	25.5	30.0	34.0	37.5	42.5	47	53	58.5
Armour diameter	mm app.	23.5	26.0	28.5	34.0	38.0	41.5	47.5	52	58	63.5
Cable diameter	mm app.	27	29.5	32.5	38	42.5	46.5	52.5	57.5	63.5	69.5
Cable mass	kg/m app.	1.91	2.38	2.98	4.25	5.47	6.61	8.41	10.14	12.71	15.38
Gross mass (300 m)	kg app.	603	743	923	1316	1680	2042	2583	3103	3872	4673
Bending radius	mm min.	270	295	325	380	425	465	525	575	635	695
Current rating											
In ground	Amps	140	170	200	245	300	340	375	420	485	550
In ducts	Amps	115	140	165	205	245	280	310	355	405	460
In air	Amps	135	165	200	255	310	360	405	465	550	620
Resistance											
dc @ 20°C	Ω/km max	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060
ac @ 90°C	Ω/km max	0.927	0.669	0.494	0.343	0.248	0.197	0.161	0.129	0.100	0.082
Zero Sequence											
Resistance	Ω/km	7.548	6.695	5.787	3.954	3.446	3.115	2.206	1.995	1.761	1.599
Reactance	Ω/km	0.057	0.570	0.058	0.058	0.056	0.057	0.056	0.058	0.058	0.059
Reactance	Ω/km	0.075	0.073	0.073	0.069	0.066	0.066	0.067	0.067	0.066	0.066
Impedance	Ω/km	0.931	0.673	0.500	0.350	0.258	0.209	0.175	0.147	0.122	0.107
Short circuit ratings											
Symmetrical	kA (1sec)	2.2	3.1	4.2	6.0	8.3	10.5	13.0	16.3	21.4	26.8
Earth fault	kA (1sec)	3.0	3.3	3.8	5.5	6.3	6.9	9.8	10.8	12.1	13.3
(Three Phase) Volt Drop	mV/A/m	1.61	1.17	0.86	0.61	0.44	0.36	0.30	0.25	0.21	0.18

Last updated May 2006

When ordering please quote: primary + size + finish code
 e.g. F2CC 4025 111



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

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