

Low Voltage XLPE Cables

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

F2CC...
...111
...212

Primary group code
Finish code

Copper 3 Core
600/1000V
SANS 1507

Size code	...naaa...	3915	3925	3004	3006	3010	3016
Conductor size	mm ² nom	1.5	2.5	4	6	10	16
Conductor diameter	mm app.	1.6	2.0	2.5	3.0	4.0	5.0
Insulation diameter	mm app.	3.0	3.5	4.0	4.5	5.5	6.5
Bedding diameter	mm app.	8.5	9.5	10.5	12.0	13.5	15.5
Armour diameter	mm app.	11.0	12.0	13.0	14.0	16.0	18.0
Cable diameter	mm app.	14	15.0	16.0	17.0	19.0	21.0
Cable mass	kg/m app.	0.43	0.50	0.58	0.68	0.87	1.11
Gross mass (500 m)	kg app.	280	305	390	440	530	710
Bending radius	mm min.	140	150	160	170	190	210
Current rating							
In ground	Amps	30	39	51	64	86	110
In air	Amps	25	33	45	57	79	105
Resistance							
dc @ 20°C	Ω/km max	12.10	7.41	4.61	3.08	1.83	1.15
ac @ 90°C	Ω/km max	15.43	9.45	5.88	3.93	2.33	1.47
Reactance							
Impedance	Ω/km	0.106	0.099	0.093	0.089	0.084	0.081
Zero Sequence							
Resistance	Ω/km	26.362	20.483	16.231	13.539	11.058	9.195
Reactance	Ω/km	0.170	0.164	0.150	0.139	0.126	0.116
Short circuit ratings							
Symmetrical	kA (1sec)	0.2	0.3	0.5	0.8	1.4	2.2
Earth fault	kA (1sec)	1.2	1.3	1.5	1.6	1.9	2.1
(Three Phase) Volt Drop	mV/A/m	26.72	16.37	10.18	6.80	4.05	2.54

Last updated May 2006

When ordering please quote: primary + size + finish code
e.g. F2CC 3925 111



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