

# Low Voltage XLPE Cables

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

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

Primary group code  
Finish code

Copper 4 Core  
600/1000V  
SANS 1507

Size code	...naaa...	4915	4925	4004	4006	4010	4016
Conductor size	mm <sup>2</sup> 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	3.9	4.5	5.5	6.5
Bedding diameter	mm app.	9.5	10.5	11.5	13.0	15.0	17.0
Armour diameter	mm app.	12.0	13.0	14.0	15.5	17.5	19.5
Cable diameter	mm app.	15	16	17	18.5	20.5	23
Cable mass	kg/m app.	0.44	0.51	0.61	0.74	0.96	1.25
Gross mass ( 500 m )	kg app.	250	285	345	409	539	684
Bending radius	mm min.	150	160	170	185	205	230
<b>Current rating</b>							
In ground	Amps	30	39	51	64	86	110
In duct	Amps	25	33	43	54	73	94
In air	Amps	25	33	45	57	79	105
<b>Resistance</b>							
dc @ 20°C	Ω/km max	12.10	7.41	4.61	3.08	1.83	1.15
ac @ 90°C	Ω/km max	14.48	8.87	5.52	3.69	2.19	1.38
<b>Reactance</b>							
Impedance	Ω/km	0.106	0.099	0.093	0.086	0.084	0.081
<b>Zero Sequence</b>							
Resistance	Ω/km	29.531	23.500	19.036	16.153	13.137	11.111
Reactance	Ω/km	0.166	0.153	0.093	0.131	0.119	0.110
<b>Short circuit ratings</b>							
Symmetrical	kA (1sec)	0.2	0.3	0.5	0.8	1.4	2.2
Earth fault	kA (1sec)	1.1	1.2	1.3	1.5	1.7	1.9
(Three Phase) Volt Drop	mV/A/m	25.08	15.36	9.56	6.38	3.79	2.39

Last updated May 2006

When ordering please quote: primary + size + finish code  
e.g. F2CC 4925 111



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