

Low Voltage XLPE Cables

XLPE F2DC... Primary group code
 FRPVC AWA FRPVC (red stripe) ...141 Finish code
 LHPVC AWA LHPVC (blue stripe) ...242

Copper I Core
 I900/3300V
 SANS 1507

Size code	...naaa...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
Conductor size	mm ² nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.5	10.0	12.0	13.5	15.0	16.5	19.0	21.5	24.0	27.5	30.5	35.0	39.0
Insulation diameter	mm app.	12.5	14.5	16.0	17.5	19.0	21.0	23.0	25.5	28.0	32.0	35.5	39.5	45.0
Bedding diameter	mm app.	14.5	16.5	19.0	20.5	22.0	23.5	26.0	28.5	31.5	35.5	39.5	44.0	49.0
Armour diameter	mm app.	18.5	20.5	23.0	24.5	26.0	27.5	30.0	33.5	36.0	40.0	45.0	49.5	54.5
Cable diameter	mm app.	22.0	23.5	26.5	28.0	29.0	31.5	33.5	37.5	41.0	44.5	50.0	54.5	60.0
Cable mass	kg/m app.	1.08	1.33	1.71	1.98	2.29	2.70	3.30	4.22	5.13	6.32	8.23	10.09	12.33
Gross mass (500 m)	kg app.	345	448	591	711	842	1037	1337	16618	17900	19900	22400	4299	5288
Bending radius	mm min.	220	235	265	280	290	315	335	375	410	445	500	545	600
Current rating	(trefoil)													
In ground	Amps	200	220	265	300	335	380	440	495	651	684	750	789	836
In air	Amps	203	220	270	310	360	420	495	580	720	815	917	992	1081
Resistance														
dc @ 20°C	Ω/km max	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060	0.047	0.037	0.028	0.022	0.018
ac @ 90°C	Ω/km max	0.464	0.343	0.247	0.197	0.160	0.129	0.100	0.081	0.066	0.054	0.044	0.030	0.025
Reactance	Ω/km	0.090	0.084	0.080	0.078	0.077	0.075	0.074	0.072	0.071	0.070	0.070	0.070	0.069
Impedance	Ω/km	0.502	0.353	0.260	0.212	0.178	0.149	0.124	0.109	0.096	0.088	0.083	0.076	0.074
Short circuit ratings														
Symmetrical	kA (1sec)	6.4	9.2	12.8	16.2	20.0	25.0	32.8	41.2	52.7	67.6	87.5	112.0	140.6
Earth fault	kA (1sec)	4.6	5.1	5.9	6.2	6.7	7.2	7.9	11.0	12.1	13.6	18.9	20.9	23.3
(Three Phase) Volt Drop	mV/A/m	0.87	0.61	0.45	0.37	0.31	0.26	0.21	0.19	0.17	0.15	0.14	0.13	0.13

Last updated May 2006

When ordering please quote: primary + size + finish code
 e.g. F2DC 1120 141



POWER BY INNOVATION... INNOVATION THROUGH PARTNERSHIPS

CBI Electric African Cables

PO Box 172, Vereeniging 1930 • Tel: +27 16 430 6000 • Fax: +27 16 423 6103

www.cbi-electric.com • afcab@cbi-electric.com

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