

Low Voltage XLPE Cables

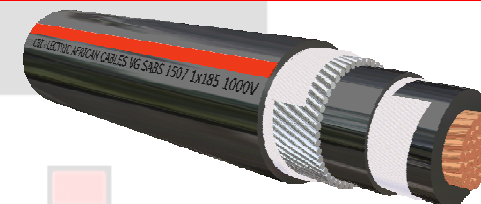
XLPE
FRPVC AWA FRPVC (red stripe)
LHFRPVC AWA LHFRPVC (blue stripe)

F2CC... Primary group code
...141 Finish code
...242

Copper 1 Core
600/1000V
SANS 1507

Size code	...naaa...	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
Conductor size	mm ² nom	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	12.0	13.5	14.5	16.5	18.5	21.0	24.0	27.5	30.5	34.5	39.0
Insulation diameter	mm app.	14.0	16.0	17.5	19.5	22.0	24.5	28.5	32.0	35.5	40.0	45.0
Bedding diameter	mm app.	16.5	19.0	20.5	23.0	25.0	28.0	32.0	35.5	39.5	44.0	49.0
Armour diameter	mm app.	19.0	21.5	24.0	25.5	29.0	31.5	36.0	40.5	44.5	49.5	54.0
Cable diameter	mm app.	23.0	26.0	28.0	30.0	34.0	37.0	41.5	45.5	50.5	55.0	60.0
Cable mass	kg/m app.	1.5	1.8	2.2	2.6	3.5	4.3	5.3	6.6	8.5	10.4	12.7
Gross mass (500 m)	kg app.	1000	1150	1350	1500	2000	2400	2950	3600	4550	5600	6750
Bending radius	mm min.	230	260	280	300	340	370	415	455	505	550	600
Current rating	(trefoil)											
In ground	Amps	320	365	405	455	520	580	640	710	780	830	875
In ducts	Amps	310	345	380	410	465	495	530	570	620	645	685
In air	Amps	345	400	465	530	625	720	820	930	1040	1120	1214
Resistance												
dc @ 20°C	Ω/km max	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470	0.0366	0.0283	0.0221	0.0176
ac @ 90°C	Ω/km max	0.248	0.197	0.160	0.129	0.0998	0.0812	0.0654	0.0536	0.0443	0.0300	0.0247
Reactance	Ω/km	0.074	0.072	0.071	0.072	0.072	0.071	0.070	0.070	0.070	0.070	0.069
Impedance	Ω/km	0.258	0.210	0.175	0.148	0.123	0.108	0.0960	0.0879	0.0828	0.0758	0.0735
Short circuit ratings												
Symmetrical	kA (1sec)	12.8	16.1	19.9	24.9	32.8	41.2	52.6	67.6	87.4	112.0	140.6
Earth fault	kA (1sec)	4.5	5.1	5.5	6.1	11.1	12.2	14.0	15.4	21.9	23.7	26.4
(Three Phase) Volt Drop	mV/A/m	0.45	0.36	0.30	0.26	0.21	0.19	0.17	0.15	0.14	0.13	0.13

1. Soil temperature 25°C
2. Air temperature 30°C
3. Soil thermal resistivity 1.2K.m/W
4. Depth of laying 500mm
5. +5% Tolerance on dimensions



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CBI-electric: african cables

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