

REVISIONS			
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		DWN/CHK	DATE 07/28/2014	TIDA-00293 DLP 3D Printer 12-V DC Power Distribution Cables		
		SYS ENGR				
	0314CP	MANU				
NHA	USED ON	QA		SIZE A	DRAWING NO 2514178	REV A
APPLICATION		APVD		SCALE NONE	SHEET 1 OF 3	

TIDA-00293 12-V DC Power Distribution Cable Assemblies

1. Scope

The purpose of this document is to establish the assembly requirements for 12V DC Power Distribution Cabling in the DLP 3D Printer.

2. Related Documents

BeagleBone MSTP Cape Schematic

- ../Design Files/BEAGLEBONE MSTP CAPE/BeagleBone MSTP Cape Schematic.pdf
- J2 Motor A Connector (page 1)

DLP LightCrafter 4500 User's Guide (DLPU011)

- www.ti.com/lit/dlpu011
- Read Section 1.4 "DLP LightCrafter 4500 Connections" (page 14)

3D Printer Level Translator Schematic

- ../Design Files/3D PRINTER LEVEL TRANSLATOR/3D Printer level translator schematic.pdf
- J1 (page 1)

3. Connections

All 12V DC power connections are made to the 12V Chassis Jack on the DLP 3D Printer. All cables are soldered to the jack's lugs.

Connection	3D Printer Level Translator J1	BBB MSTP Cape J1 (Tin Leads, No connector)	LightCrafter 4500 J26
12V DC	1	1	1
GND	3	2	2

4. Bill Of Materials

The following table lists the components necessary to construct the 12V DC cables.

Description	Manufacturer	Part Number	Qty
LightCrafter 4500 Connector	CUI	PP3-002B	1
3D Printer Level Translator Connector	JST	EHR-3	1
3D Printer Level Translator Connector Crimps	JST	SEH-001T-P0.6L	2
BBB MSTP Cape Connections	N/A	Tin Leads	2

TIDA-00293 12-V DC Power Distribution Cable Assemblies

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