



Theatrelight Serial Cable

Subject: Serial Cable for Ten-Pack II Systems		
Revised: 02 Sep 2005	By: S R Reader	
Category: Cables	File Reference: CA000008	
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The Theatrelight Serial (TL Serial) protocol is a proprietary multiplexed system that was available on some older Theatrelight dimmer packs, including the very popular Ten-Pack II model. Ten-Pack II dimmer packs have 0 to -15V DC analogue inputs for manual preset consoles, and a TL Serial input for the Theatrelight Showmaster console. Many Ten-Pack II dimmer packs are still in use and are likely to remain so for some time. Operators wishing to replace their aging consoles with new consoles that have DMX outputs can do so using a Theatrelight DMX to TL Serial protocol converter. The converter receives the DMX signal from the console and outputs TL Serial to the dimmer packs. This Datasheet details the cables needed to link multiple Ten-Pack II dimmer packs together, and/or to link the dimmer packs to a protocol converter.

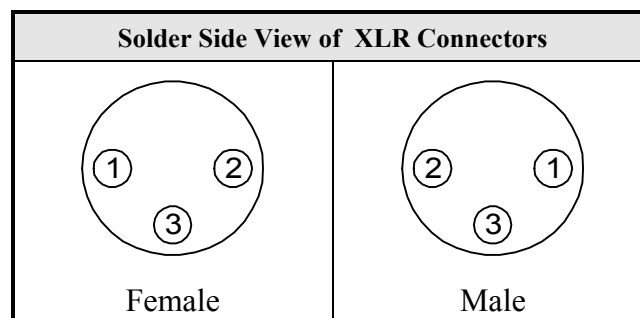
Connector Wiring

XLR Pin	Wire Purpose
1	Cable Shield - Ground
2	Serial Data +
3	Serial Data -

Notes:

1. The TL Serial protocol multiplexes the channel levels for each dimmer into a single signal that delivers the levels to the dimmers via an ordinary microphone cable at the rate of 50 updates per dimmer per second.
2. Standard balanced microphone cables can be used provided the cable is of good quality and in good condition.
3. The connectors are the 3-Pin XLR type.
4. All cables manufactured by Adena use the cable types detailed in the chart below.

Connector Pins Layouts



Cable Types

Cable Manufacturer - Cable Type	Wire Colour		
	Pin 1	Pin 2	Pin 3
General Cable – Dataspeed B2001 ESCS	Shield	Blue	White
Dick Smith Electronics – W2035	Shield	Red	White
Belden Cables – 8412	Shield	Black	White