LUT-DMX DMX512 Control Interface

Lets GRAFIK Eye lighting controls operate lighting and other equipment that uses the DMX512 protocol:
• Strobes, fiber optic lighting, and LED-based lamps
• Fogger machines
• Animated characters and motorized fixtures.

Converts GRAFIK zone intensities into DMX512 channel settings. You dedicate one zone to each DMX512 channel you want to control.

Works with GRX-3000/GRX-4000 Control Units and GRAFIK 5000/6000 Systems (see DIP switches 1 and 2). Does not require an address.

FOR EXAMPLE

You set up the DMX512-controlled fiber optic fixture so that:
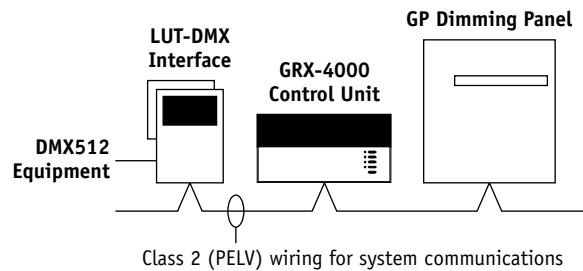• Channel "5" controls color channel or dial setting
• Channel "6" controls shutter open/close

You set up Control Unit scenes so that:
• Zone 5's intensity = desired fiber optic color
• Zone 6's intensity = desired shutter open/close

When you select a scene at the Control Unit:
• DMX512 Interface converts new scene's zone intensities into DMX512 channel settings.
• Fiber optics automatically change color and shutter open/close.

GP Dimming Panel

LUT-DMX Interface

GRX-4000 Control Unit

DMX512 Equipment

Class 2 (PELV) wiring for system communications

JOB NAME:	MODEL NUMBERS:
JOB NUMBER:	

FUNCTIONS AND ZONE CAPACITIES

DIP SWITCH SETTINGS

1	2	LUT-DMX Interface works with...
▣	▣	GRX-3000 and GRX-4000 Control Units. Enables them to operate up to 64 total GRAFIK Eye lighting zones and DMX512 channels.
▣	▣	GRAFIK 5000 and 6000 Systems. Enables them to operate DMX512-controlled equipment. • GRAFIK 5000: Up to 128 total lighting zones and DMX512 channels. • GRAFIK 6000: Up to 512 total lighting zones and DMX512 channels.
▣	▣	• Lets DMX512 stage boards control GP Dimming Panels. Use 2Link option in new construction.
▣	▣	• Used only to retrofit existing GRAFIK Eye lighting. GP 4000 combiner function. Use 2Link option in new con struction

SPECIFICATIONS

Power
Operating voltage: Low-voltage Class 2 (PELV), 12VDC to 24VFW.

Zone/Channel Capacity
Maximum total number of GRAFIK Eye lighting zones and DMX512 channels:
• GRX-3000 Control Units: Up to 48 non-continuous.
• GRX-4000 Control Units: Up to 64.
• GRAFIK 5000 Systems: Up to 128.
• GRAFIK 6000 Systems: Up to 512.

System Communications and Capacity
• Low-voltage Class 2 (PELV) wiring connects LUT-DMX Interface to other components.
• One LUT-DMX per system. No address. Does not count as one of the maximum number of addresses (Wallstations, Control Interfaces, or Control Units) allowed on a Class 2 (PELV) wiring link.
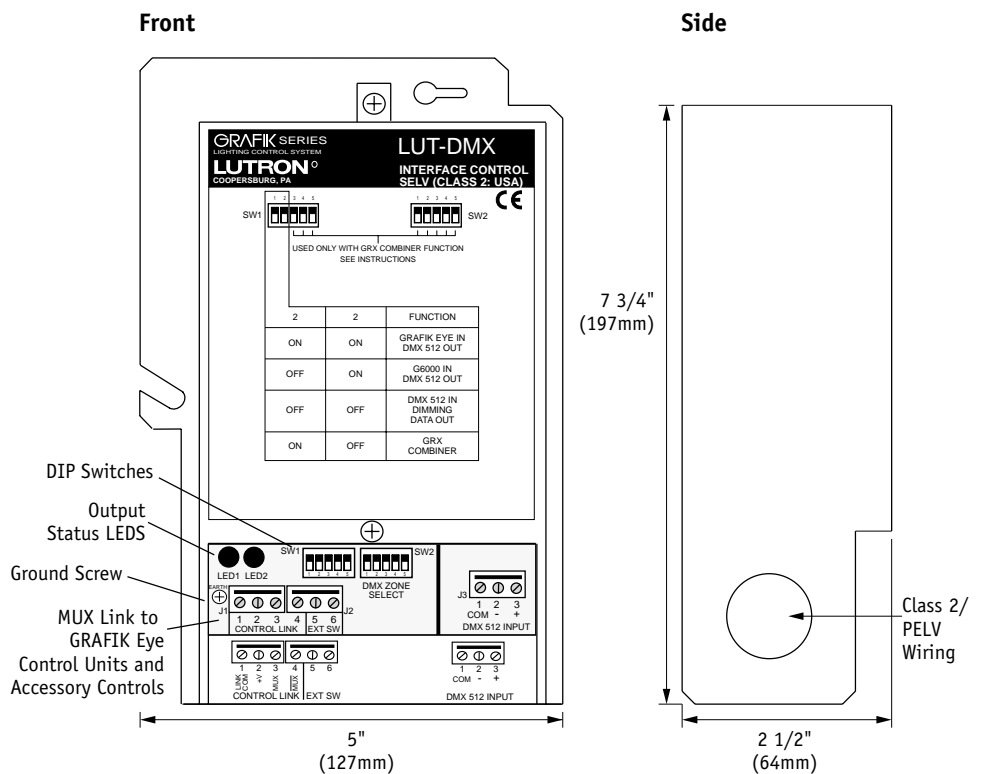
DMX512 Link
• Three terminals for connecting the LUT-DMX to DMX512-controlled equipment.
• Each terminal can accept up to two #18 AWG (1.0mm^2) wires.
• Link must be 1000 feet or less. Link can be extended with the Lutron MUX-RPTR interface.0
• Link must begin and end with Link Terminators.

Environment
32-104°F (0-40°C). Relative humidity less than 90% non-condensing.

DIMENSIONS

Front   **Side**

2	2	FUNCTION
ON	ON	GRAFIK EYE IN DMX 512 OUT
OFF	ON	G6000 IN DMX 512 OUT
OFF	OFF	DMX 512 IN DIMMING DATA OUT
ON	OFF	GRX COMBINER

DIP Switches
Output Status LEDS
Ground Screw
MUX Link to GRAFIK Eye Control Units and Accessory Controls

Class 2/ PELV Wiring

7 3/4" (197mm)

5" (127mm)

2 1/2" (64mm)

JOB NAME:	MODEL NUMBERS:
JOB NUMBER:	

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MOUNTING

- Mount on a 4" (10.2mm) square junction box.
- Or mount directly on the wall.
- Make sure you ground the metal casing.
  Connect a ground wire to the ground screw.

4"x4"
Junction
Box

LUT-DMX

Wall

LUT-DMX

Wall

Insert Wires
Through
Punch-Outs
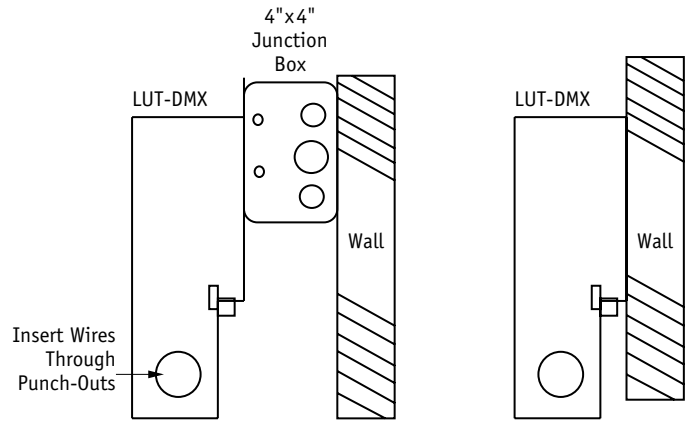
DMX512 LINK WIRING

Connect the LUT-DMX Interface's DMX512 Link terminals to input terminals on DMX512-controlled equipment.
- Each terminal on the LUT-DMX accepts two #18 AWG (1.0mm²) wires.
- Link must be 1000 feet or less.
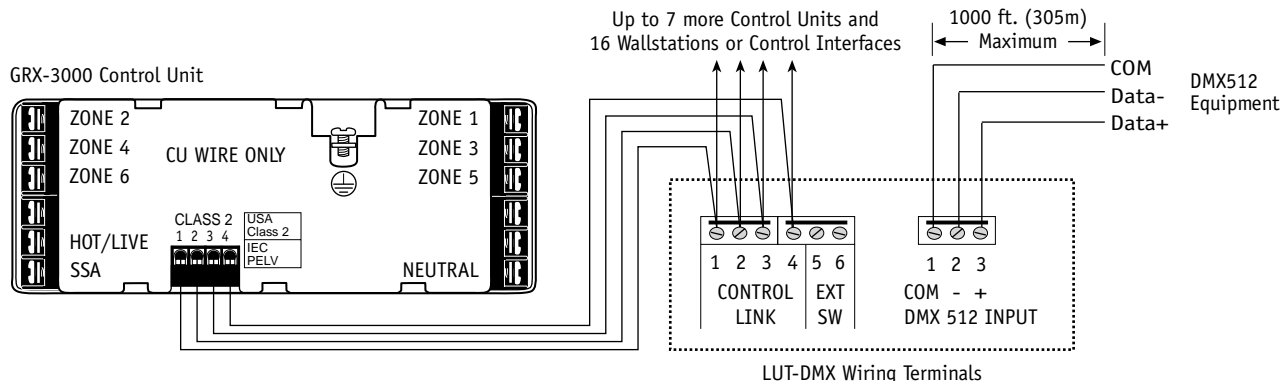- Link must begin and end with Link Terminators.

DMX512 Link Terminals on LUT-DMX	Connect to...
1: DMX512 system COMMON	Do NOT connect to COMMON on GRAFIK Eye Control Unit or Processor.
2: DMX512 system DATA - ($\overline{\text{MUX}}$)	Pin 2 on DMX512 equipment.
3: DMX512 system DATA + (MUX)	Pin 3 on DMX512 equipment.

JOB NAME:	MODEL NUMBERS:
JOB NUMBER:	

CLASS 2 (PELV) WIRING FOR GRAFIK 3000/4000 SYSTEMS

Use low-voltage Class 2 (PELV) wiring for system communications.
- Make daisy-chain connections to the low-voltage Class 2 (PELV) MUX Link terminals on back of LUT-DMX Interface.
- Do not use T-taps. Run all wires in and out of terminal block.
- Each terminal can accept up to two #18 AWG (1.0mm²) wires.
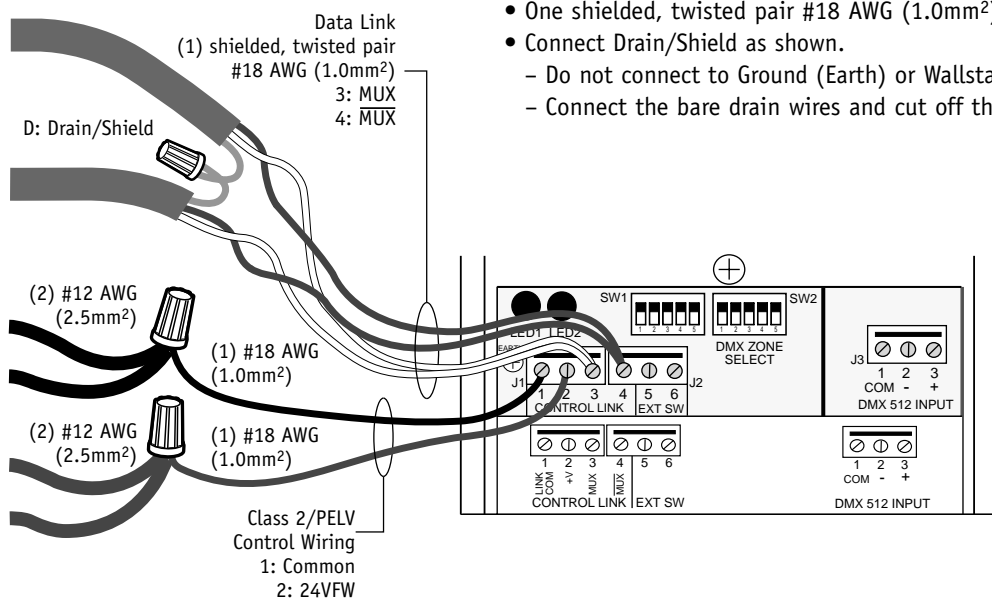

LUT-DMX Wiring Terminals

When used with GRX-3000 Control Units
- Two #18 AWG (1.0mm²) conductors for common (terminal 1) and 12VDC (terminal 2). Make sure you wire the terminal 2 connection correctly. Refer to GRX-3000 Specification Submittal.
- One shielded, twisted pair #18 AWG (1.0mm²) for data link (terminals 3 and 4).

When used with GRX-4000 Control Units
- Two #12 AWG (2.5mm²) conductors for common (terminal 1) and 24VFW (terminal 2). These won't fit in terminals. Connect as shown.
- One shielded, twisted pair #18 AWG (1.0mm²) for data link (terminals 3 and 4).
- Connect Drain/Shield as shown.
  - Do not connect to Ground (Earth) or Wallstation/Control Interfaces.
  - Connect the bare drain wires and cut off the outside shield.

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JOB NUMBER:	

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CLASS 2 (PELV) WIRING FOR GRAFIK 5000/6000 SYSTEMS

- Make sure you put the LUT-DMX Interface on the Power Panel Link.
- Use Link Terminators at the beginning and end of the Power Panel Link.
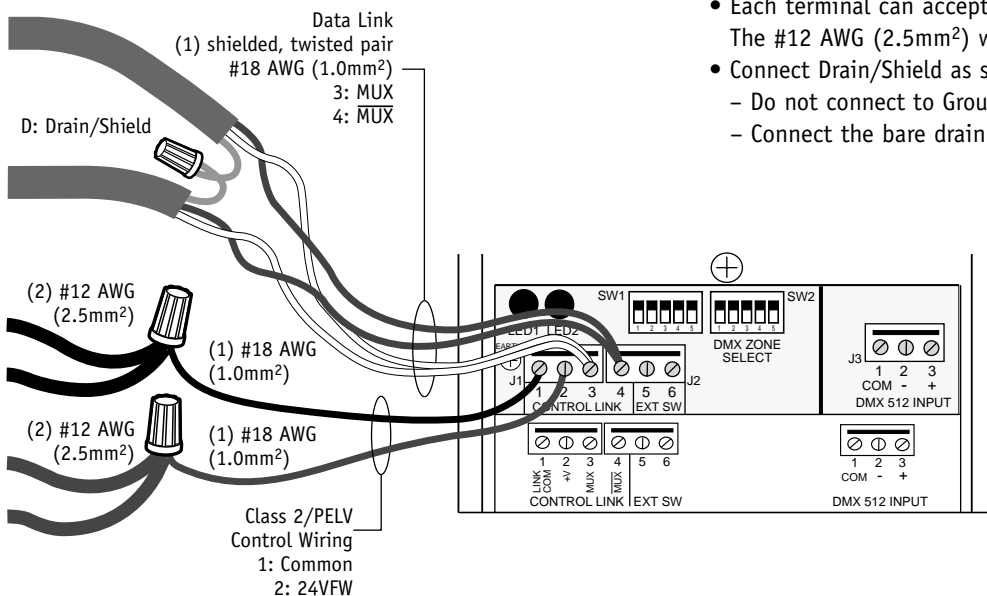- Refer to Processor Panel Specification Submittal for more information.
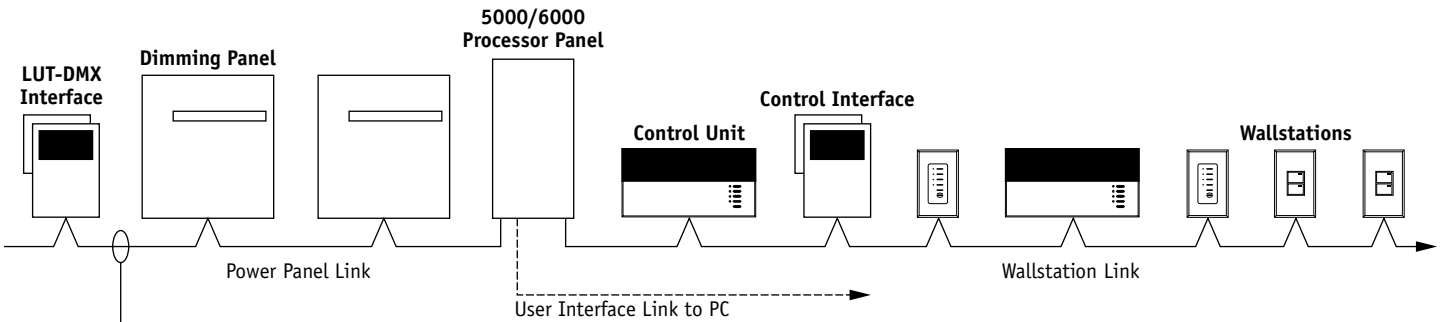
Low-voltage type Class 2 (PELV) wiring:
- Two #12 AWG (2.5mm^2) conductors for control wiring.
- One shielded, twisted pair #18 AWG (1.0mm^2) for data link.
- **No Sense Line!** Run the extra #18 AWG (1.0mm^2) wire used as a "sense line" for emergency (essential) lighting only between Power Panels! Do not connect this to the LUT-DMX!

TERMINAL CONNECTIONS

- Make daisy-chain connections to the low-voltage Class 2 (PELV) MUX Link terminals on back of LUT-DMX Interface.
- Do not use T-taps. Run all wires in and out of terminal block.
- Each terminal can accept up to two #18 AWG (1.0mm^2) wires. The #12 AWG (2.5mm^2) wires won't fit! Wire as shown.
- Connect Drain/Shield as shown.
  - Do not connect to Ground (Earth) or Wallstation/Control Interfaces.
  - Connect the bare drain wires and cut off the outside shield.

JOB NAME:	MODEL NUMBERS:
JOB NUMBER:	