

# GRAFIK Eye® Low-Voltage Cable for Class 2 Applications

**GRX-CBL-346S**  
**GRX-CBL-46L**

## LUTRON SPECIFICATION SUBMITTAL

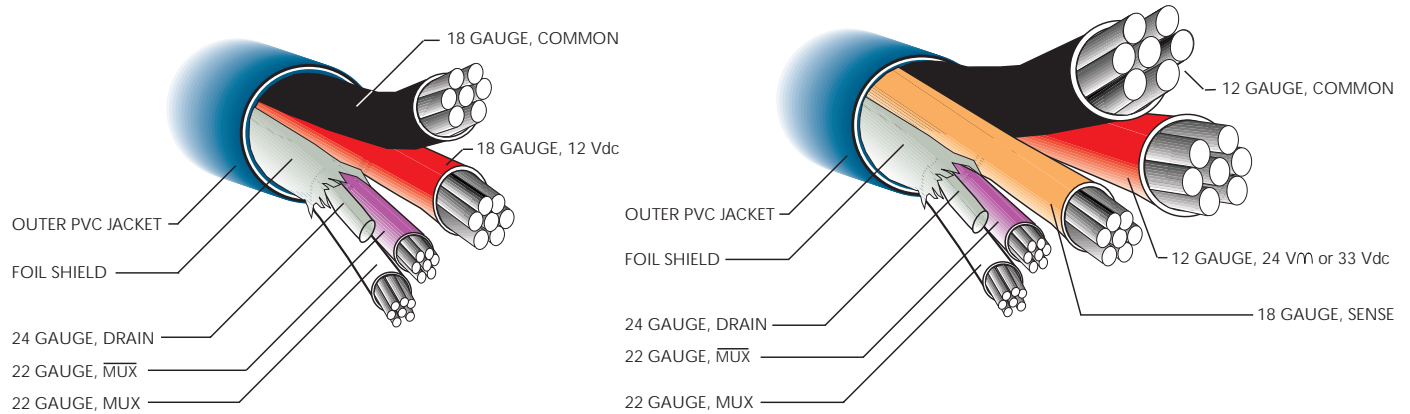
Job Name	Job Number
Location	Area Controlled
Model Number <input type="checkbox"/> GRX-CBL-346S-500 <input type="checkbox"/> GRX-CBL-46L-250 <input type="checkbox"/> GRX-CBL-46L-500	

The GRX-CBL-346S and GRX-CBL-46L offer one-cable (non-plenum), low-voltage solutions for GRAFIK Eye products. GRX-CBL-346S uses #18 AWG for its power wires and is meant to be used for shorter wiring distances. GRX-CBL-46L uses #12 AWG for its power wires and is meant to be used for longer wiring distances. Please note that the maximum possible system wiring is 2000 ft. (600 m) without a repeater.

Model Number	Spool Length	Number of Conductors	Terminal 1 (Common)	Terminal 2 (Vdc or VM)	Terminal 3 (MUX)	Terminal 4 (MUX)	Terminal 5 (Sense*)	Terminal D† (Drain)
GRX-CBL-346S-500	500 ft.	4 Copper	#18 Black	#18 Red	#22 White	#22 Violet	—	#24
GRX-CBL-46L-250	250 ft.	5 Copper	#12 Black	#12 Red	#22 White	#22 Violet	#18 Orange	#24
GRX-CBL-46L-500	500 ft.	5 Copper	#12 Black	#12 Red	#22 White	#22 Violet	#18 Orange	#24

\* The Sense wire connects to terminal 5 of the circuit selectors in GRAFIK Eye dimming or switching panels and allows the system to be set up for emergency lighting applications. Please call Lutron for more information.

† Since Terminal D is not present on most GRAFIK Eye Controls, the drain wire must be isolated from Ground/Earth and the GRAFIK Eye Control. In daisy-chained applications, the drain wires must be connected to each other and then isolated from Ground/Earth and the GRAFIK Eye Control.



**GRX-CBL-346S-500 (3000 Series Systems<sup>‡</sup>)**

**GRX-CBL-46L-250/500 (4000/6000 Series Systems)**

‡ GRX-CBL-346S-500 can, under certain conditions, be used in GRAFIK Eye 4000/6000 Series systems. The chart below is a quick reference of how far the cable can be run. Please see Application Note W14 for more details concerning allowable cable runs.

### Worst-Case Wiring Lengths for GRX-CBL-346S-500 cable in GRAFIK Eye Systems

GRAFIK Eye System	Wire Gauge	Parameter	Maximum Length (Worst Case)
3000 Series	#18	16 Accessory Controls at end of link with one 12 Vdc power supply.	575 ft. (175 m)
4000 Series <sup>§</sup>	#18	16 Controls at end of link.	300 ft. (91 m)
6000 Series <sup>§</sup>	#18	32 Accessory Controls at end of link.	625 ft. (190 m)

§ If emergency lighting is to be used, an additional #18 AWG wire must be connected to terminal 5 of the appropriate circuit selector(s) located inside the Lutron dimming or switching panel(s). Please call Lutron for information specific to your application.

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#### WARRANTY

Lutron warrants each new unit to be free from defects in materials and workmanship and to perform under normal use and service. This warranty shall run only for a period of one year from the date of purchase and Lutron's obligations under this warranty are limited to remedying any defect or replacing any defective part and shall be effective only if the defective unit is shipped to Lutron postage prepaid within 12 months after purchase. Damage due to abuse, misuse, inadequate wiring or installation is not covered by this warranty.

In no event shall Lutron or any other seller be liable for any other loss or damage, including consequential or special damages that may arise through the use by a purchaser or others of this device and the purchaser assumes and will hold harmless Lutron in respect of all such loss.

Although every attempt is made to ensure that catalogue information is accurate and up-to-date, please check with Lutron before specifying or purchasing this equipment to confirm availability, exact specifications and suitability for your application.

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