



**Technical Specifications**  
**Product Line: LUTRON-GRN**

**Description**

Composite cable consisting of a 22 AWG stranded, twisted and shielded data pair and a 18 AWG stranded, twisted, and unshielded power pair cabled together and overall jacketed. NEC type CM and CEC type CMG FT4. Product manufactured compliant to the requirements of UL444 for installations and applications in accordance with NEC articles 725 and 800.

**Component 1:**

22 AWG data pair  
16-strand annealed bare copper conductors  
Diameter: 0.030" | 0.75mm  
Foam polyethylene insulation  
Wall thickness: 0.013" | 0.33mm  
Diameter: 0.056" | 1.42mm  
100% aluminum/poly foil in  
24 AWG 7-strand tinned copper drain

**Electrical**

DC resistance: 15.7  $\Omega$  / 1000' | 51.50  $\Omega$ /KM  
Mutual capacitance: 23.7 pF/FT | 77.74 pF/M  
Impedance: 65  $\Omega$   
Velocity of Propagation: 78%  
Voltage rating: 300V  
18 AWG pair conductor DCR: 6.74  $\Omega$  / 1000' | 22.11  $\Omega$ /KM  
Maximum current: (18 AWG) 2.63A@25 °C

**Component 2:**

18 AWG power pair  
41-strand annealed bare copper conductors  
Diameter: 0.046" | 1.18mm  
Semi-rigid polyvinyl chloride insulation  
Wall thickness: 0.015" | 0.39mm  
Diameter: 0.077" | 1.95mm

**Regulatory**

NEC: CM 75 °C  
CEC: CMG FT4 60 °C  
EU RoHS 2002/95/EC Compliant

**Color Code**

Power pair: Red, Black  
Data pair: Violet, White

**Assembly**

Shielded data pair and power pair cabled on a common axis

**Construct**

Ripcord under jacket  
Special print "GrafiK Eye" on jacket

**Shield**

See individual component descriptions

**Jacket**

Polyvinyl chloride  
Colors: Light Blue with a green stripe  
Wall thickness: 0.029" | 0.73mm  
Diameter: 0.228" | 5.80mm

**Packages**

Reel: 1000' | 305M  
Weight: 41 Lbs/1000' | 62 Kg/KM

**Installation**

Pull Tension: 40 Lbs | 178 N  
Bend radius: 2.28" | 58mm unloaded  
Bend radius: 4.56" | 116mm loaded

**Applications**

Lutron® universal system control cable for shorter lengths  
Direct drop in for Lutron GRX-CBL-346S cable  
Also substitutes for Lutron QSH-CBL-S  
GRAFIK EYE, GRAFIK EYE QS, Energi Savr Node™

**Performance**

3000 Series 16 Accessory controls: 575' | 175m  
4000 Series 16 controls: 300' | 91m  
6000 Series 32 Accessory Controls: 625' | 190m  
QS 1 shade 1 keypad: 125' | 35m

**Final Outside Diameter (inches)**

0.228





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Specification Revision Date:

March 3, 2009

