



**Technical Specifications**

**Product Line: LUTRON-QSC**

**Description**

Composite cable consisting of a 22 AWG stranded, twisted and shielded data pair and a 16 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  
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

**Component 2:**

16 AWG power pair  
26-strand annealed bare copper conductors  
Semi-rigid polyvinyl chloride insulation  
Wall thickness: 0.015" | 0.39mm  
Diameter: 0.090" | 2.28mm

**Color Code**

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

**Assembly**

Shielded data pair and power pair cabled on a common axis

**Construct**

Ripcord under jacket

**Shield**

See individual component descriptions

**Jacket**

Polyvinyl chloride  
Colors: Light blue with a white stripe  
Wall thickness: 0.025" | 0.63mm  
Diameter: 0.240" | 6.09mm

Specification Revision Date:

**Electrical**

22 AWG pair conductor DCR: 15.7  $\Omega$  / 1000' | 51.50  $\Omega$ /KM  
Mutual capacitance: 15.0 pF/FT | 49.2 pF/M  
Impedance: 65  $\Omega$   
Velocity of Propagation: 78%  
Voltage rating: 300V  
16 AWG pair conductor DCR: 4.04  $\Omega$  / 1000' | 13.25  $\Omega$ /KM  
Maximum current: 5.0A@25°C

**Regulatory**

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

**Packages**

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

**Installation**

Pull Tension: 65 Lbs | 289 N  
Bend radius: 2.40" | 61mm unloaded  
Bend radius: 4.80" | 122mm loaded

**Applications**

Lutron® universal system control cable for medium lengths  
Direct drop in for Lutron QSH-PCBL-M cable  
GRAFIK EYE, GRAFIK INTEGRALE, HOMEWORKS, QS

**Performance**

Assuming Sivoia Smart Panel Power:  
50 power units no shades 500' | 152m  
25 power units no shades 1000' | 304m  
1 Shade 1 keypad 200' | 60m  
2 shades no keypads 75' | 23m  
Small Power Pack - halve the distance

**Final Outside Diameter (inches)**

0.240

October 12, 2011

