

**Technical Specifications**

**Product Line: LUTRON-P-RBL**

**Description**

Composite cable consisting of a 22 AWG stranded, twisted and shielded data pair with a 12 AWG stranded, twisted, and unshielded power pair and a single 18 AWG stranded sensor wire all under one common jacket.  
NEC type CL3P. Product manufactured compliant to the requirements of UL444 for installations and applications in accordance with NEC article(s) 725 and 800.

**Component 1:**

22 AWG data pair  
7-strand annealed bare copper conductors  
Foam fluorinated ethylene propylene insulation  
Wall thickness: 0.015" | 0.38mm  
Diameter: 0.060" | 1.52mm  
100% aluminum/poly shield foil in  
24 AWG 7-strand tinned copper drain wire

**Electrical**

DC resistance: 15.7  $\Omega$  / 1000' | 51.50  $\Omega$ /KM  
Mutual capacitance: 15 pF/FT | 49.2 pF/M  
Impedance: 85  $\Omega$   
Velocity of Propagation: 78%  
Voltage rating: 300V  
18 AWG pair conductor DCR: 6.74  $\Omega$  / 1000' | 22.11  $\Omega$ /KM  
Maximum current: 2.63A@25°C  
12 AWG pair conductor DCR: 1.65  $\Omega$  / 1000' | 5.41  $\Omega$ /KM  
Maximum current: 9.6A@25°C

**Component 2:**

12 AWG power pair  
19-strand annealed bare copper conductors  
Plenum rated polyvinyl chloride insulation  
Wall thickness: 0.012" | 0.31mm  
Diameter: 0.113" | 2.87mm

**Regulatory**

NEC: CL3P 75°C  
EU RoHS III 2015/863/EU Compliant  
REACH (EC) No 1907/2006 Compliant

**Component 3:**

18 AWG sensor / ground wire  
19-strand annealed bare copper conductors  
OSP rated polyvinyl chloride insulation  
Wall thickness: 0.010" | 0.25mm  
Diameter: 0.068" | 1.73mm

**Packages**

Reel: 1000' | 305M  
Weight: 80 Lbs/1000' | 120 Kg/KM

**Color Code**

Power pair: Red, Black  
Data pair: Green, White  
Static ground conductor: Orange

**Installation**

Pull Tension: 126 Lbs | 561 N  
Bend radius: 2.72" | 69mm unloaded  
Bend radius: 5.44" | 138mm loaded  
Plenum cable should be conditioned at room temperature for 24 hours prior to installation and never installed below 32°F | 0°C ambient temperature

**Assembly**

Shielded data pair, power pair and sensor wire cabled on a common axis

**Applications**

Lutron® universal system control cable for longer lengths  
Direct drop in for Lutron GRX-PCBL-46L cable  
Also substitutes for Lutron QSH-CBLP-L  
GRAFIK EYE, GRAFIK INTEGRALE, HOMEWORKS, QS

**Construct**

Ripcord under jacket

**Performance**

4000/6000 Series 2000' | 609m  
QS 1 shade 1 keypad: 500' | 152m



**Jacket**

Plenum rated polyvinyl chloride  
Colors: Natural white with a blue stripe  
Wall thickness: 0.015" | 0.38mm  
Diameter: 0.272" | 6.91mm

**Final Outside Diameter (inches)**

0.272

Specification Revision Date:

December 11, 2012

