



Technical Specifications
Product Line: LUTRON-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 CL3. 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

Electrical

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

Component 2:

12 AWG power pair
19-strand annealed bare copper conductors
Semi-rigid polyvinyl chloride insulation
Wall thickness: 0.013" | 0.33mm
Diameter: 0.118" | 3.00mm

Regulatory

NEC: CL3 75°C
CEC: N/A
EU RoHS 2002/95/EC Compliant

Component 3:

18 AWG sensor / ground wire
19-strand annealed bare copper conductors
Semi-rigid polyvinyl chloride insulation
Wall thickness: 0.015" | 0.38mm
Diameter: 0.059" | 1.50mm

Packages

Reel: 1000' | 305M
Weight: 84 Lbs/1000' | 126 Kg/KM

Color Code

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

Installation

Pull Tension: 126 Lbs | 561 N
Bend radius: 2.99" | 76mm unloaded
Bend radius: 5.98" | 152mm loaded

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-CBL-46L cable
Also substitutes for Lutron QSH-CBL-L
GRAFIK EYE, GRAFIK INTEGRALE, HOMEWORKS, QS

Construct

100% Polyester tape binder
Ripcord under jacket

Performance

N/A





Jacket

Polyvinyl chloride

Colors: Light Blue/royal blue stripe

Wall thickness: 0.026" | 0.65mm

Diameter: 0.299" | 7.60mm

Final Outside Diameter (inches)

0.299

Specification Revision Date:

March 15, 2011

