

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 article(s) 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 III 2015/863/EU Compliant
 REACH (EC) No 1907/2006 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

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

Flame rated 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