

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 articles 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 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
 Plenum rated polyvinyl chloride insulation
 Wall thickness: 0.012" | 0.31mm
 Diameter: 0.113" | 2.87mm

Regulatory

NEC: CL3P 75°C
 EU RoHS-2 2011/65/EU 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: Violet, 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