



Technical Specifications
Product Line: LLINX-U-HP

Description

Composite cable consisting of a 22 AWG stranded, twisted and shielded data pair and an 12 AWG stranded, twisted, and unshielded power pair overall jacketed
NEC type CL3. Product manufactured compliant to the requirements of UL13 for installations and applications in accordance with NEC article 725.

Component 1:

22 AWG data pair
7-strand annealed bare copper conductors
Foam polyethylene insulation
Wall thickness: 0.025" | 0.64mm
Diameter: 0.074" | 1.88mm
100% aluminum/poly shield foil in
24 AWG 7-strand tinned copper drain wire

Component 2:

12 AWG power pair
19-strand annealed bare copper conductors
Polyvinyl chloride insulation
Wall thickness: 0.016" | 0.41mm
Diameter: 0.122" | 3.11mm

Color Code

Data pair: Blue, 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

Flame retardant polyvinyl chloride
Colors: Gray with a brown stripe
Wall thickness: 0.032" | 0.81mm
Diameter: 0.315" | 8.00mm

Specification Revision Date:

Electrical

22 AWG DCR: 15.7 Ω / 1000' | 51.5 Ω /KM
Shield DCR: 22.5 Ω / 1000' | 73.8 Ω /KM
Mutual capacitance: 12.5 pF/FT | 41.0 pF/M
Impedance: 105 Ω
Velocity of Propagation: 78%
Voltage rating: 300V
12 AWG DCR: 1.77 Ω / 1000' | 5.80 Ω /KM
Maximum current: 9.6A@25°C

Regulatory

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

Packages

Reel: 1000' | 305M
Weight: 80 Lbs/1000' | 60 Kg/KM

Installation

Pull Tension: 112 Lbs | 498 N
Bend radius: 3.15" | 81mm unloaded
Bend radius: 6.30" | 162mm loaded

Applications

LibertyLinx® universal system control cable
Direct drop in for Lutron QSH-CBL-L Quantum cable
General purpose RS-232C, RS-485 simplex data and control
General purpose control and communication cable

Performance

12 AWG power: 1000 feet maximum

Final Outside Diameter (inches)

0.315

August 1, 2006

