



Technical Specifications

Product Line: LLINX-U

Description

Composite cable consisting of a 22 AWG stranded, twisted and shielded data pair and an 18 AWG stranded, twisted, and unshielded power pair overall jacketed
NEC type CM and CEC type CMG FT4. 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 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:

18 AWG power pair
16-strand annealed bare copper conductors
Polyvinyl chloride insulation
Wall thickness: 0.010" | 0.25mm
Diameter: 0.072" | 1.83mm

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 yellow stripe
Wall thickness: 0.032" | 0.81mm
Diameter: 0.246" | 6.25mm

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
18 AWG DCR: 6.74 Ω / 1000' | 22.11 Ω /KM
Maximum current: 3.0A@25°C

Regulatory

NEC: CM 75°C
CEC: CMG FT4 60°C
EU RoHS 2002/95/EC Compliant

Packages

Reel: 1000' | 305M
Weight: 40 Lbs/1000' | 60 Kg/KM

Installation

Pull Tension: 40 Lbs | 178 N
Bend radius: 2.46" | 63mm unloaded
Bend radius: 4.92" | 126mm loaded

Applications

LibertyLinx® universal system control cable
General purpose RS-232C, RS-485 simplex data and control
General purpose control and communication cable

Performance

18 AWG power: 500 feet maximum

Final Outside Diameter (inches)

0.246

August 3, 2006

