



**Technical Specifications**

**Product Line: LLINX-U-P**

**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 CMP and CEC type CMP FT6. 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  
Wall thickness: 0.019" | 0.51mm  
Diameter: 0.068" | 1.73mm  
100% aluminum/poly shield foil in  
24 AWG 7-strand tinned copper drain wire

**Electrical**

22 AWG DCR: 15.7  $\Omega$  / 1000' | 51.5  $\Omega$ /KM  
Shield DCR: 22.5  $\Omega$  / 1000' | 73.8  $\Omega$ /KM  
Mutual capacitance: 12.5 pF/FT | 41.0 pF/M  
Impedance: 105  $\Omega$   
Velocity of Propagation: 82%  
Voltage rating: 300V  
18 AWG DCR: 6.74  $\Omega$  / 1000' | 22.11  $\Omega$ /KM  
Maximum current: 3.0A@25°C

**Component 2:**

18 AWG power pair  
16-strand annealed bare copper conductors  
Diameter: 0.068" | 1.73mm  
Plenum rated polyvinyl chloride  
Wall thickness: 0.009" | 0.23mm

**Regulatory**

NEC: CMP 75°C  
CEC: CMP FT6 60°C  
EU RoHS 2002/95/EC Compliant

**Color Code**

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

**Packages**

Reel: 1000' | 305M  
Weight: 29 Lbs/1000' | 44 Kg/KM

**Assembly**

Shielded data pair and power pair cabled on a common axis

**Installation**

Pull Tension: 40 Lbs | 178 N  
Bend radius: 2.11" | 54mm unloaded  
Bend radius: 4.22" | 108mm 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

**Construct**

Ripcord under jacket

**Applications**

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

**Shield**

See individual component descriptions

**Performance**

18 AWG power: 500 feet maximum

**Jacket**

Plenum rated polyvinyl chloride  
Colors: Gray  
Wall thickness: 0.015" | 0.38mm  
Diameter: 0.211" | 5.36mm

**Final Outside Diameter (inches)**

0.211

Specification Revision Date:

August 3, 2006

