



**Technical Specifications**  
**Product Line: LLINX-U-DB**

**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  
Sunlight resistant, suitable for direct burial and wet locations. 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  
Semi-rigid polyvinyl chloride insulation  
Wall thickness: 0.010" | 0.25mm  
Diameter: 0.066" | 1.68mm

**Color Code**

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

**Assembly**

Shielded data pair and power pair cabled on a common axis

**Construct**

100% water blocking tape with a 25% overlap  
Ripcord under jacket

**Shield**

See individual component descriptions

**Jacket**

Polyvinyl chloride  
Colors: Black  
Wall thickness: 0.040" | 1.02mm  
Diameter: 0.275" | 6.99mm

Specification Revision Date:

**Electrical**

22 AWG DC resistance: 15.7  $\Omega$  / 1000' | 51.50  $\Omega$ /KM  
Shield DCR: 22.5  $\Omega$  / 1000' | 73.8  $\Omega$ /KM  
Capacitance: 12.5 pF/FT | 41.0 pF/M  
Impedance: 105  $\Omega$   
Velocity of Propagation: 78%  
Voltage rating: 300V  
18 AWG DC resistance: 6.74  $\Omega$  / 1000' | 22.11  $\Omega$ /KM  
Maximum current: (18 AWG) 2.63A@25 °C

**Regulatory**

Sunlight resistant  
Suitable for direct burial  
EU RoHS 2002/95/EC Compliant

**Packages**

Reel: 1000' | 305M  
Weight: 44 Lbs/1000' | 66 Kg/KM

**Installation**

Pull Tension: 40 Lbs | 178 N  
Bend radius: 2.75" | 70mm unloaded  
Bend radius: 5.50" | 140mm loaded

**Applications**

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

**Performance**

18 AWG power: 500 feet maximum

**Final Outside Diameter (inches)**

0.275

October 13, 2006

