



## Technical Specifications

**Product Line: LLINX-U-HF**

### 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  
IEC rated for EU halogen free applications. 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  
Low smoke zero halogen insulation  
Wall thickness: 0.010" | 0.25mm  
Diameter: 0.067" | 1.70mm

### Color Code

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

### Assembly

Shielded data pair and power pair cabled on a common axis

### Construct

Fibrillated polypropylene fillers  
Ripcord under jacket

### Shield

See individual component descriptions

### Jacket

low smoke zero halogen polyolefin  
Colors: Gray with a yellow stripe  
Wall thickness: 0.032" | 0.81mm  
Diameter: 0.246" | 6.25mm

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

IEC 60332.1 flame retardant  
IEC 61034.2 low smoke  
IEC 60754.1 halogen content  
IEC 60754.2 toxicity  
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: 2.46" | 63mm unloaded  
Bend radius: 4.92" | 126mm loaded

### Applications

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

### Performance

18 AWG power: 500 feet maximum

### Final Outside Diameter (inches)

0.246

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