



LX Network Cable – Plenum Rated

Plenum Rated Windy City Wire 104500 Cable



KEY FEATURES

- Interconnects LX Lighting Control Panels and LX network devices
- Cable carries both power and data in a single twisted pair
- Windy City Wire #104500 - twisted pair #16 tinned copper
- Single cable type connects to all types of LX network devices
- Echelon Guideline Compliant for LON networks
- Available in 100 ft and 500 ft reels
- Plenum Rated
- Connects to terminal blocks or with twist on connectors
- UL and cUL Listed

OVERVIEW

Hubbell Building Automation’s LX network cable is used to interconnect LX Panels, LX Devices and LX Accessories for a complete communications network. All devices that communicate on the LX Network are connected with the same type of single twisted pair cable. Both power and data are carried over the same two wires. The LX System is wired as a topology-free, polarity-insensitive network. HBA supplied LX Network Cables assure proper network communications and should be specified and installed on all LX System projects.

FEATURES and BENEFITS

Features

Power and Data on the same two wires

Benefits

- Eliminates the need for separate power and data wiring
- All LX Network devices connect to the same type of cable

Topology Free, Polarity Insensitive, network wiring

- Allows for simple installation similar to standard branch circuit wiring
- Daisy chain topology is not required, but allowed.

LX SYSTEM NETWORK CABLE REQUIREMENTS

Hubbell Building Automation’s LX Lighting Control System requires the use of Belden #8471 cable for Riser Rated applications OR Windy City Wire #104500 for Plenum Rated applications. These are the **ONLY** cables that can be used for network wiring with the LX System.

The use of substitute cables based on similar physical characteristics is not allowed and will **VOID any HBA warranty** for the LX system or any LX component connected to the substitute cable.

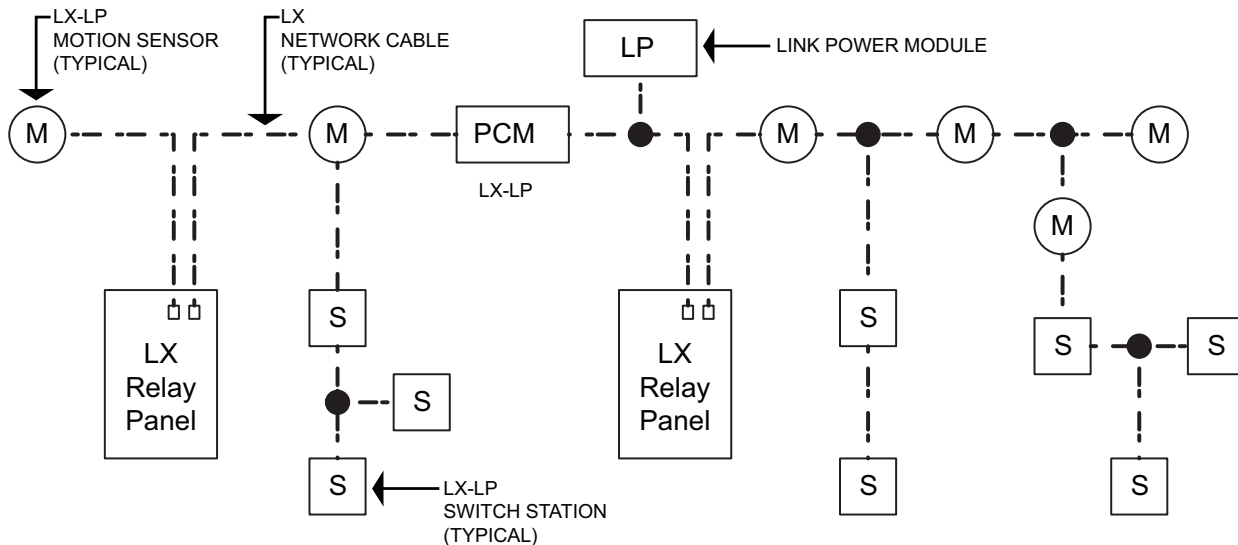
SPECIFICATIONS

Description	• 1 pair - 16 AWG stranded tinned copper conductors, PVC Insulation, unshielded twisted pair (UTP), PVC jacket
Shielding	• Unshielded
Overall Nominal Diameter	• 0.182 inches
Plenum Rating	• Plenum Rated
Operating Temperature Range	• 0°C to +75°C (Indoor use only)
Maximum Pulling Tension	• 61 lbs
Minimum Bend Radius	• 5.1 inches
Color	• Pair Color - Black/White, Outer Jacket - White
Certifications	• NEC (UL) Subject 444 Type CL2P/CMP, CSA (cUL)
Flame Test	• NFPA 262 Steiner Tunnel Test
Warranty	• One year

ORDERING INFORMATION

Catalog Number	Description
LX104500CBL100	LX Cable Windy City 104500 Plenum Rated 100 ft Reel
LX104500CBL500	LX Cable Windy City 104500 Plenum Rated 500 ft Reel

DIAGRAM - LX Topology Free Network Wiring



TYPICAL SEGMENT = MAXIMUM 56 DEVICES OR MAXIMUM 1,500FT

INSTALLATION NOTES

- DO NOT exceed 1500 feet of cable OR connect more than 56 devices per network segment.
- Each network segment using LP style devices requires an LXLP2 Link Power Module for device power. Each additional segment requires an additional LXLP2 Link Power Module and an LXRRM Repeater for data transmission between segments.
- Each network segment existing of panels only or that use FT style devices only require termination with LXTERMINATOR instead of LXLP2 Link Power Module.
- Run cable and connect network with the shortest distances possible. The most efficient network is wired similar to branch circuit outlets.
- When using twist-on wire connectors with network cable use no more than three wires per connector.
- The use of T-taps to minimize cable length is encouraged. Daisy chain topology is allowed, but most often increases overall cable length.
- DO NOT homerun all devices individually, or leave spare cable at ceiling mounted devices. If devices need to be relocated, cables can be extended with twist-on wire connectors.
- DO NOT mix plenum and NON-plenum cables on the same segment.
- Keep 12" minimum from line voltage, do not run in the same raceway with line voltage.



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