HelixNet® Partyline System

Quick Start Guide

The following quick start guide provides basic installation instructions for your HelixNet Partyline system, and provides a quick reference to possible topologies and cable capacitance. It covers the following products:

- HelixNet Main Station (HMS-4X)
- HelixNet Beltpacks (HBP-2X and HXII-BP-X4)
- HelixNet Interface Modules (HLI-2W, HLI-4W2, HLI-ET2 and HLI-FBS)

Note: *For information about the HelixNet Remote Station and the HelixNet Speaker Station with S-Mount bracket, see the **HelixNet Digital Partyline User Guide**.*

Before installing

To ensure that HelixNet Partyline delivers the desired performance, review the cable specifications for the venue or application space before installing. To safely interface two-wire and four-wire audio source with HelixNet Partyline, use the optional two-wire (HLI-2W2) and four-wire (HLI-4W2) interface modules.

⚠️ **Warning:** *HelixNet Partyline operates at a different voltage than two-wire partyline systems (such as Clear-Com Encore or PL-Pro). Do **not** connect any analog two-wire partyline equipment to the Main Station powerlines as severe damage may occur.*

Installing the Main Station

To install the HelixNet Partyline Main Station:

1. Connect the supplied power cord to the HMS-4X Main Station power connector **(A)**.
2. Connect the power cord to mains power.
3. Connect a screened cable from a powerline port to the XLR-3 port on the Beltpack **(C)**.
4. Connect the headset to the Beltpack **(D)**.

HMS-4X Main Station

HXII-BP-X4 Beltpack

To mains power

Installing Interface Modules

To install an interface module to the HMS-4X Main Station:

1. Disconnect the HMS-4X Main Station from mains power.
2. Remove the blanking plate **(E)** and insert the interface module **(F)** into the module bay.
3. Reconnect the HMS-4X Main Station to mains power.

To configure the interface module, navigate to **Menu > Module Settings**.

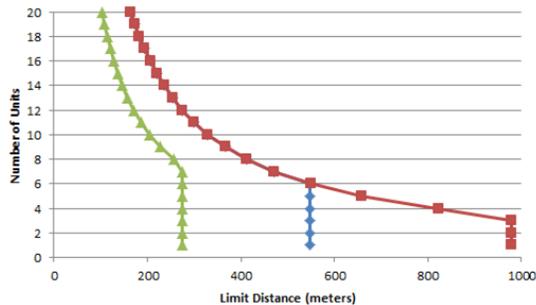**Clear-Com®**
AN HME COMPANY
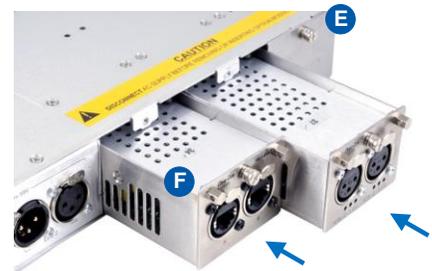
Quick reference to topologies
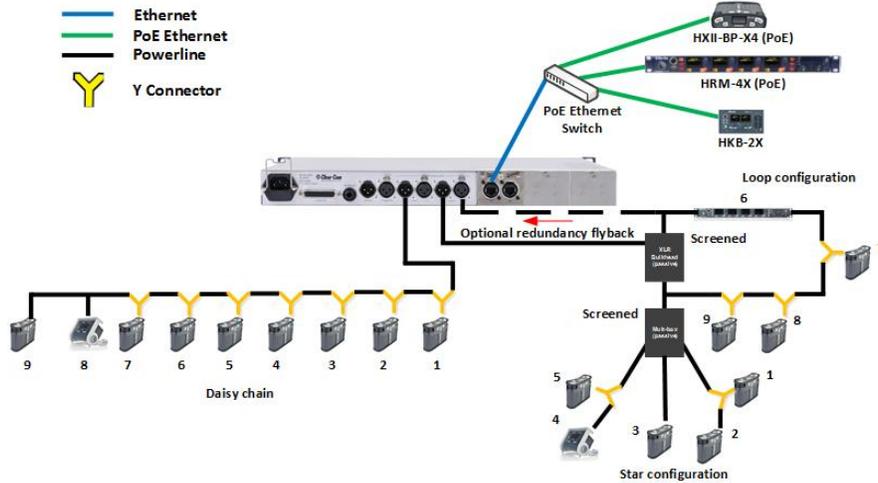

Quick reference to cable capacity and distance

Clear-com recommends that only screened twisted pair or screened CAT5 cabling is used between the HelixNet Main Station (powerline) and beltpacks, Remote Stations or Speaker Stations. If the powerline is connected to a bulkhead patch bay or multi-box please ensure that the patched bay (or multi-box) is screened and uses screened patch cabling.

Manufacturer	Cable type	Gauge (AWG)	Style	Attenuation / 100m
Belden	9463f	20	Std	16 dB
Belden	9207	20	Std	9 dB
Belden	1533P	24	Cat5e	11 dB
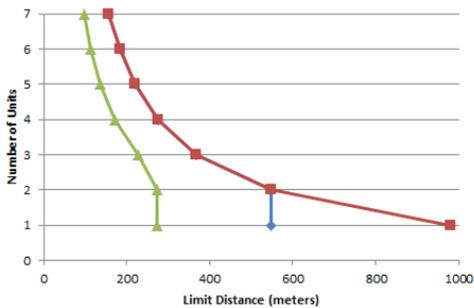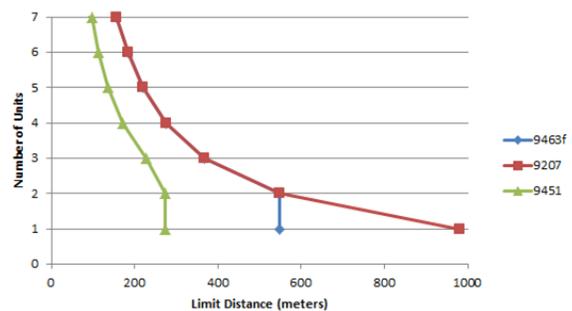
For more information, see the Clear-Com Powerline Cable Distance Calculator:
http://www.clearcom.com/userfiles/file/Software/HelixNetCablingCalculator/index.html

Clear-Com recommends Belden 9207 for fixed installation, and Belden 9463F for portable installations.

Tip: *The attenuation of a cable increases with distance, and this can impact audio quality. If your priority is audio quality, experiment with attaching one or two fewer devices to each line. For in-depth cabling advice, contact your Clear-Com representative.*