

Installation Guide

GigaBIX Multi IDC System

Doc # PX101814 Release A

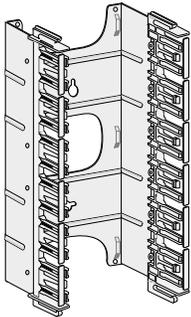
GigaBIX

BELDEN

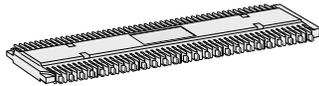
1 of 4 pages

GigaBIX Termination Kit, 72-ports (Kit # AX101470)

Basic Components



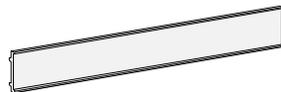
GigaBIX Mount:
AX101472 (1X)



GigaBIX Connector, 4-Pair:
AX101447 (12X)
Suitable for 22 to 26 wire gauge



Dispositif de retenue GigaBIX :
AX101486 (12X)

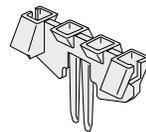


Porte-étiquettes GigaBIX :
AX101483 (6X)

Accessories

LabelFlex labels (not included)

AX101532 - Gray	AX101537 - Green
AX101533 - White	AX101538 - Blue
AX101534 - Orange	AX101539 - Purple
AX101535 - Red	AX101540 - Brown
AX101536 - Yellow	AX101541 - Silver



Termination Bar (72X)
AX101719

Standard Tools and Materials



Wood
Screws (2X)
#8-3/4"

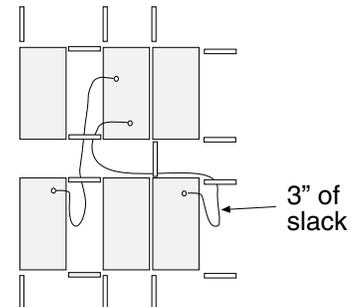
- Marker
- Measuring tape
- Spirit Level
- Cutters
- BIX Connecting Tool



Velcro Strip
18" AX101519 (2X)

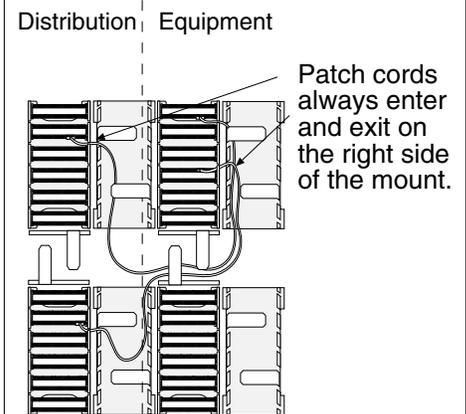
Cross-Connect Routing

1. Route jumper wires as shown.



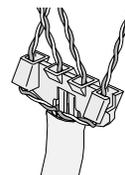
2. Using your hand, form a three inch portion of slack close to lower connection.

Route patch cords from field to field.



* Important Installation Note!

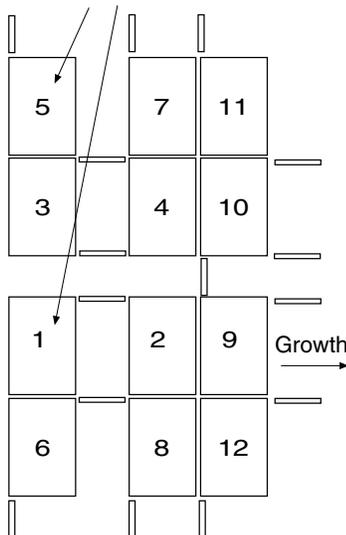
This document includes the use of the GigaBIX Termination Bar AX101719. This new and important component is installed at the step 6H of this document. For detailed installation instructions refer to the related document PX103843 that is included in the Termination Bar package!



GigaBIX IDC System Layouts

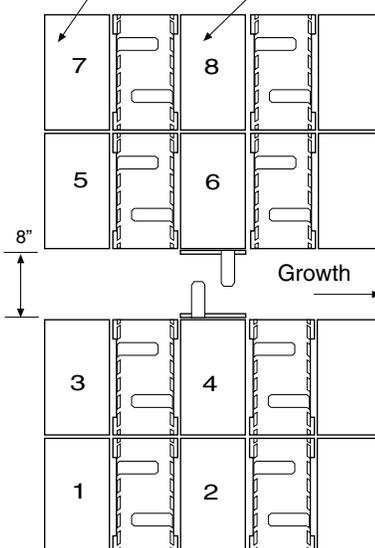
Cross-Connect Layout

Equipment or Distribution Fields



Patch Cord Layout

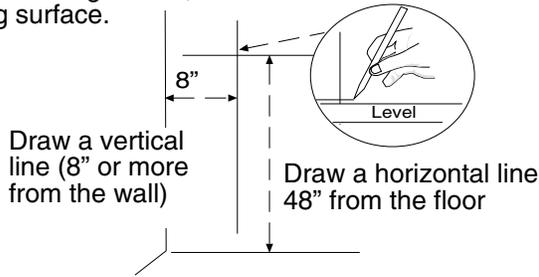
Distribution Field Equipment Field



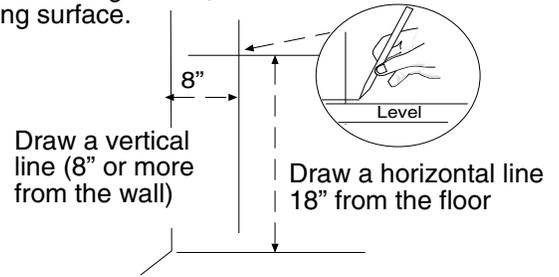
Cross-Connect Wire Layout

Patch Cord Layout

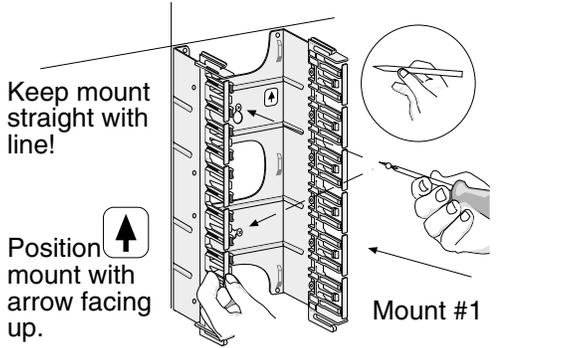
1. Marking Wall/Mounting Surface
Measure, and using a level, mark wall or mounting surface.



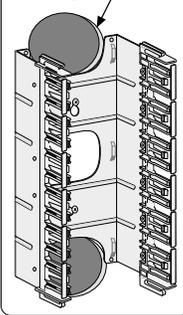
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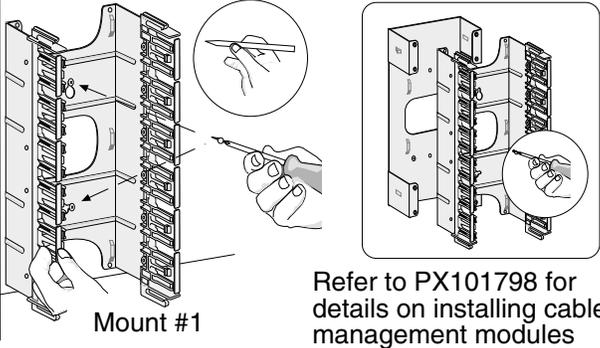
2. Attaching the first GigaBIX Mount
Orient mount to lines. Mark screw locations and using #8 x 3/4" wood screws, fasten to wall.



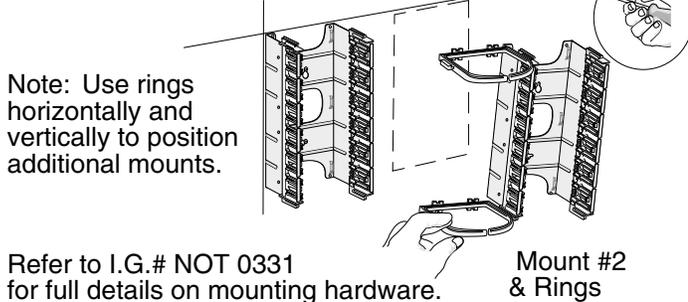
False Wall
Cut out hole for cables routing through wall



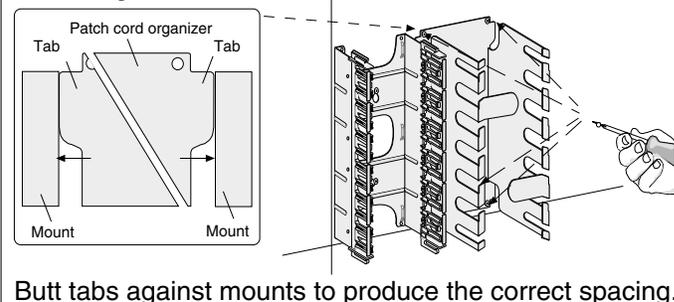
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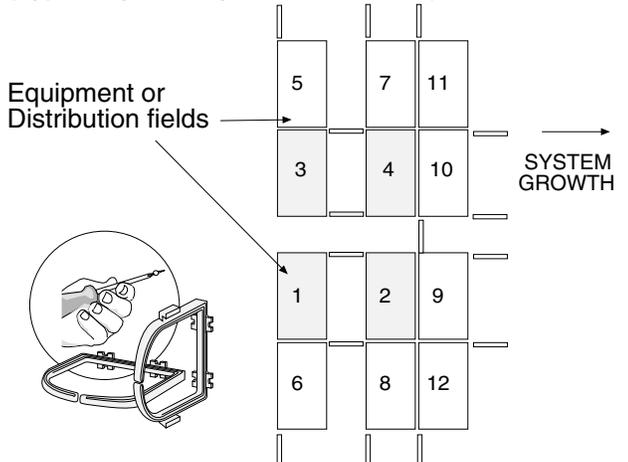
3. Attaching additional GigaBIX Mounts
Attach two rings in second mount and engage in first mount. Secure second mount.



3. Attaching the first Patch Cord Bracket
Orient patch cord bracket to line. Mark screw locations and using #8 x 3/4" wood screws, fasten to wall.

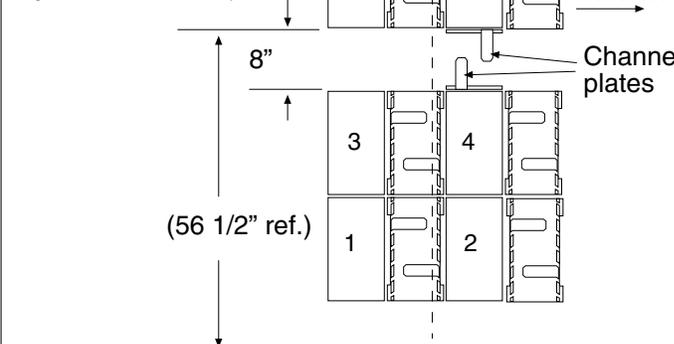


4. Completing Wall Hardware
Continue the installation adding the required mounts. Secure external rings in their positions as shown. (Typical system layout shown below)



4. Completing Wall Hardware

Continue the installation adding the required hardware. (Typical system layout shown here)

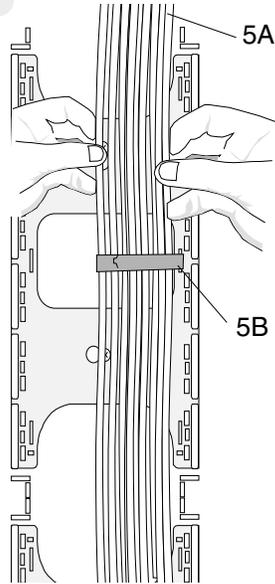


5. Routing 4-pair Cables

5A. Route lower mount cable bundle first. (Note: Cables routing from the top down shown here)

5B. Using Velcro secure bundle form in the center lance on the right side of the mount

Note: To minimize cable congestion when routing, work cables into a parallel oval form before bundling and securing to mount.

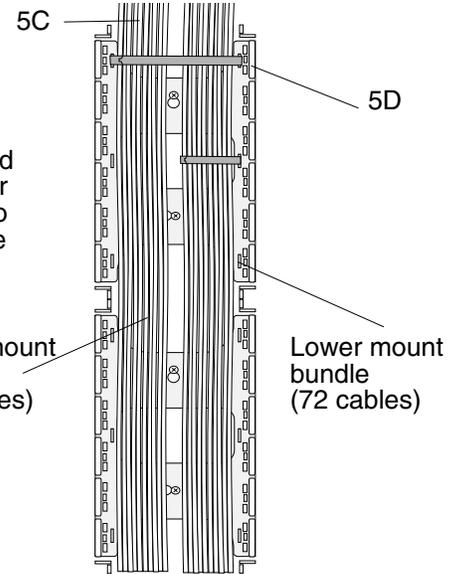


5C. Form and route upper mount cable bundle into upper mount

5D. Secure both upper and lower bundles at the upper lance locations with Velcro and route cables down the center of the mounts.

Upper mount bundle (72 cables)

Lower mount bundle (72 cables)

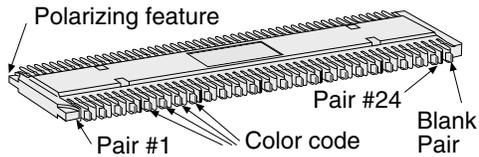


6. Terminating Connectors

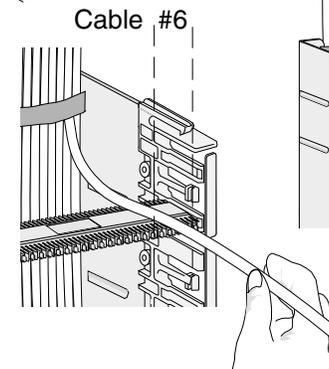
6A. Snap a GigaBIX connector into the second position from the top in the upper mount. Use the color code and polarizing feature to correctly orient the connector.



Position #2

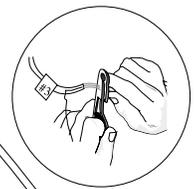


6B. Select the appropriate cable and position over its pair segment on the connector.



Cables: 1 2 3 4 5 6

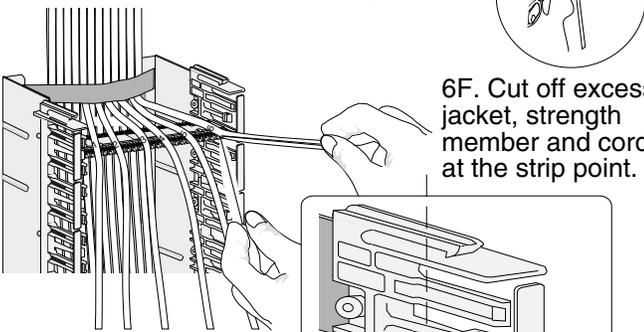
6D. Remove a small portion of the jacket to expose rip cord.



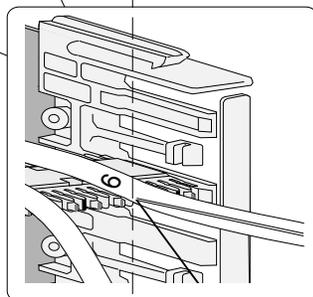
6C. Before stripping jackets, fan out each cable to its position on the connector. Do not cross over cables! Fan directly to their positions!

6E. Slit jacket to the edge of the connector.

Note: Hold each cable taut to its position on the connector when stripping!



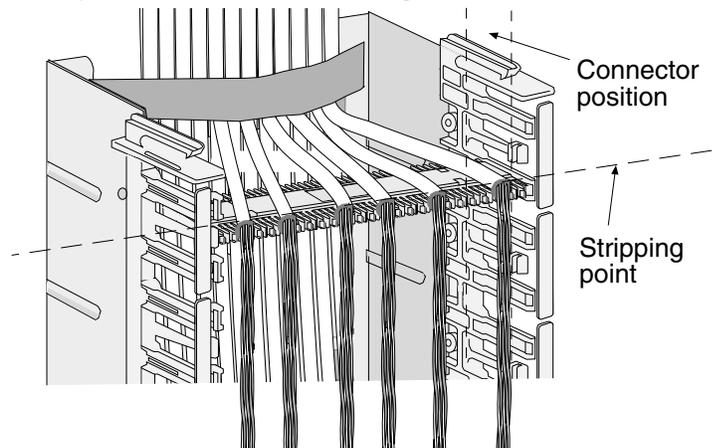
6F. Cut off excess jacket, strength member and cord at the strip point.



Always strip jacket to the exact edge of the connector!
Always strip at the cable's exact position!

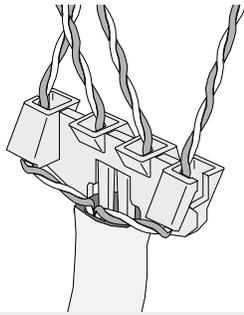
Installer's Tip. Write cable I.D. number on the jacket just after the connector edge, before stripping.

6G. Prepare all six cables to the edge of the connector.



Note: The stripping point, and the connector position, ensures the optimum amount of cable slack! To avoid a buildup or cable slack that could create congestion, always prepare cables accurately to these points!

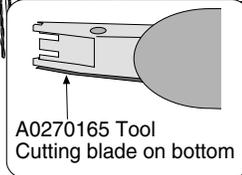
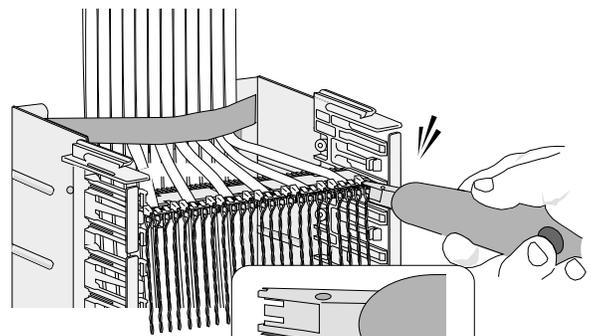
6H. Install the GigaBIX Termination Bars.



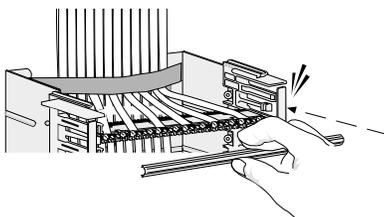
*** Important Installation Note!**

The GigaBIX Termination Bar AX101719 is installed at this step! For detailed installation instructions, refer to the related document PX103843.

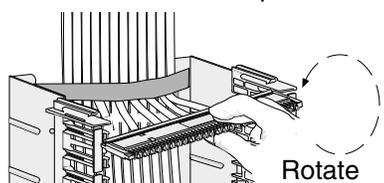
6I. Using the Belden CDT BIX Connecting Tool, terminate the row.



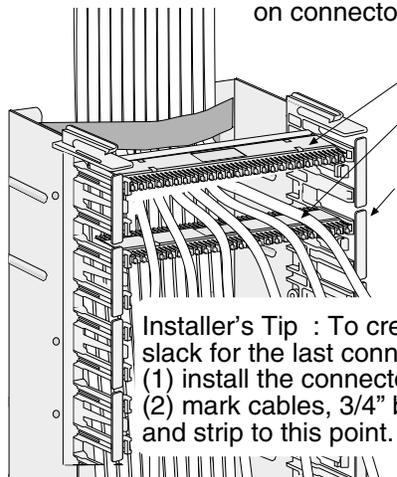
6J. Snap on a GigaBIX Wire Retainer over the terminated connector



6K. Remove and rotate the connector and reposition in the top slot in the mount.



6L. Position the next six cables for terminating on connector #2. Terminate as previously shown.



Connector #1 rotated and installed in 1st position
 Second row of cables
 Connector #2 temporarily installed in the 3rd position down
 Repeat the terminating procedure for all of the remaining cables and connectors.

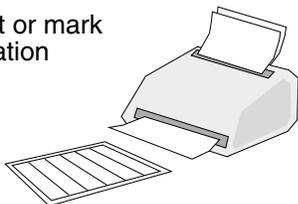
Installer's Tip : To create the optimum cable slack for the last connector in the mount;
 (1) install the connector in the bottom position,
 (2) mark cables, 3/4" beyond connector edge and strip to this point.



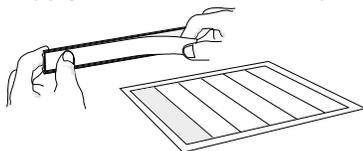
Last connector only!

7. Cable Identification

7A. Print or mark identification labels



7B. Apply to the slot in the strip

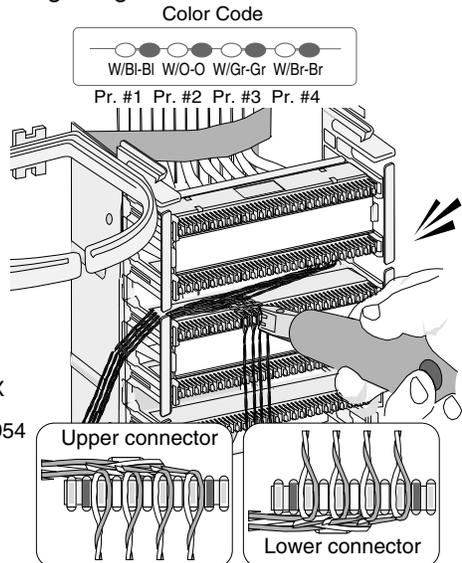


For additional technical information on GigaBIX or our other connectivity products, call our Technical Support department at 1-800-858-7954



8. Cross-Connect Wire Installation

8A. Connect and route jumper wires through rings to the other field.



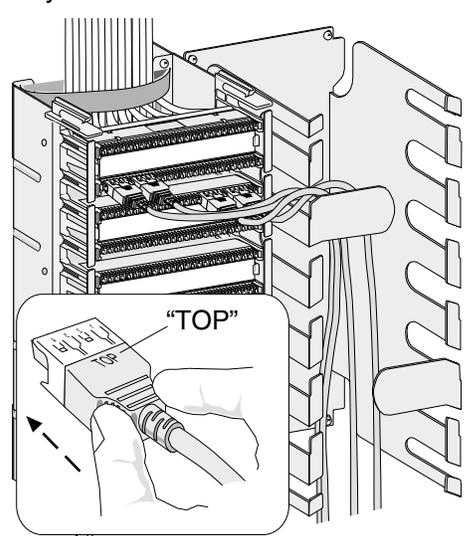
Color Code
 W/B-BI W/O-O W/Gr-Gr W/Br-Br
 Pr. #1 Pr. #2 Pr. #3 Pr. #4

Upper connector

Lower connector

9. Patch Cord Installation

9A. Use the word "TOP" to orient the patch cord, and push patch cord head firmly into the connector.



9B. Route cable into patch cord organizer to the corresponding connection on the distribution field