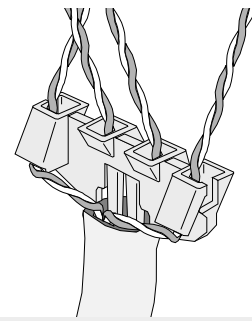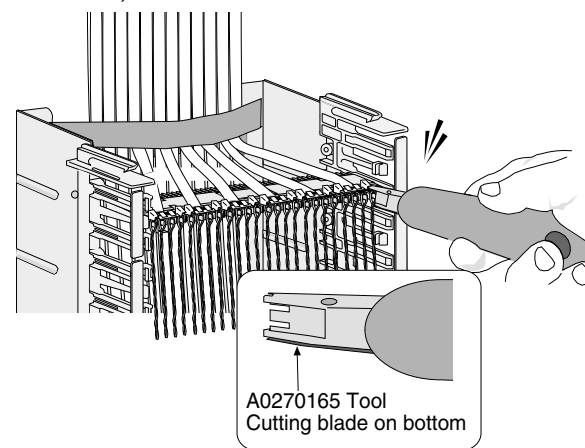**6H. Install the GigaBIX Termination Bars.**

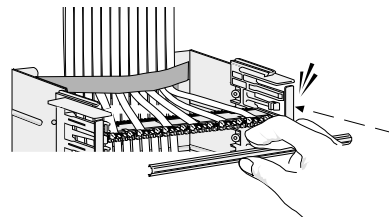> *** Important Installation Note!**
> The GigaBIX Termination Bar AX101719 is installed at this step! For detailed installation instructions, refer to the related document PX103843.

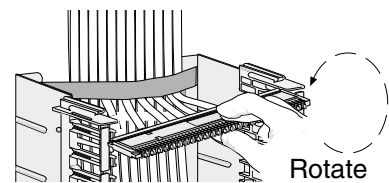**6I. Using the Belden CDT BIX Connecting Tool, terminate the row.**

A0270165 Tool
Cutting blade on bottom

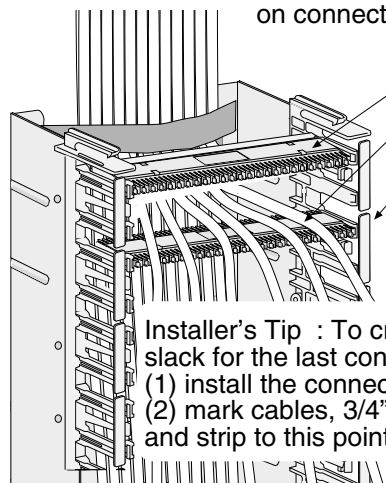**6J. Snap on a GigaBIX Wire Retainer over the terminated connector**

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

Rotate

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

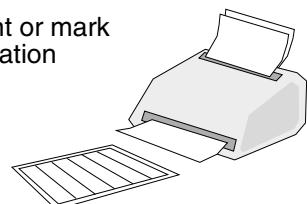Repeat the terminating procedure for all of the remaining cables and connectors.

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.
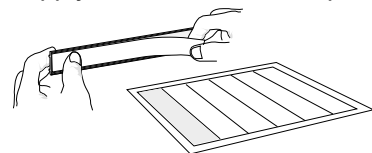
3/4"
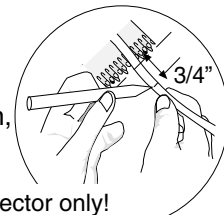
Last connector only!

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7. Cable Identification

7A. Print or mark identification labels

7B. Apply to the slot in the strip
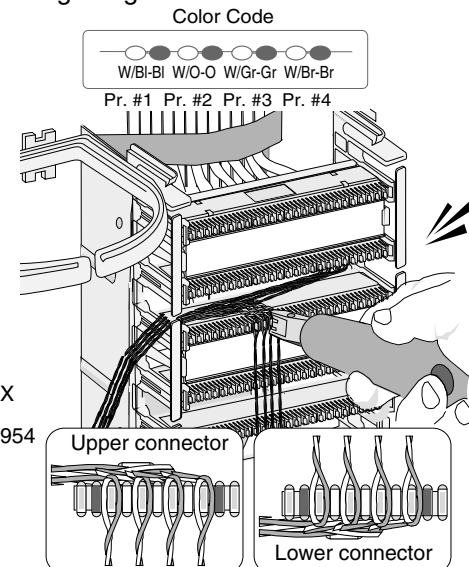
For additional technical information on GigaBIX or our other connectivity products, call our Technical Support department at 1-800-858-7954

BELDEN

8. Cross-Connect Wire Installation

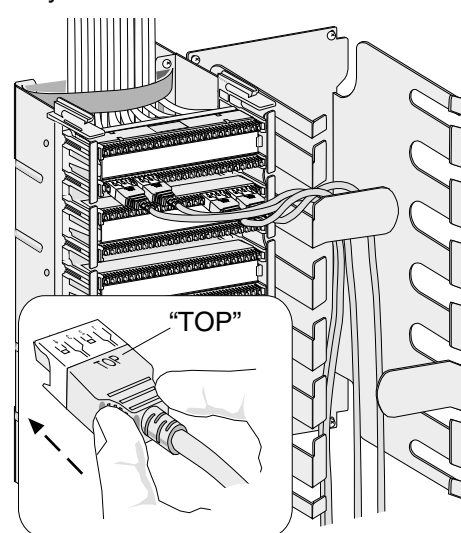**8A. Connect and route jumper wires through rings to the other field.**

Color Code

W/Bl-Bl   W/O-O   W/Gr-Gr   W/Br-Br
Pr. #1   Pr. #2   Pr. #3   Pr. #4

Upper connector

Lower connector

Copyright 2008 Belden, Inc.

9. Patch Cord Installation

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

"TOP"

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

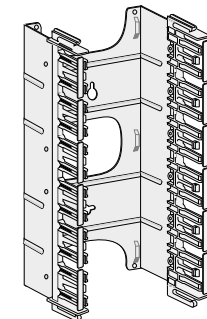---

Installation Guide
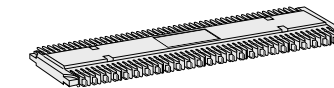## GigaBIX Multi IDC System
Doc # PX101814 Release A

GigaBIX   **BELDEN**

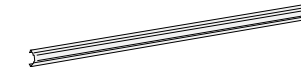**GigaBIX Termination Kit, 72-ports**   (Kit # AX101470)
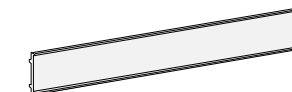
Basic Components

GigaBIX Mount:
AX101472 (1X)

Accessories

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

Dispositif de retenue GigaBIX :
AX101486 (12X)

Porte-étiquettes GigaBIX :
AX101483 (6X)

LabelFlex labels (not included)

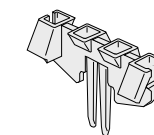AX101532 - Gray   AX101537 - Green
AX101533 - White   AX101538 - Blue
AX101534 - Orange   AX101539 - Purple
AX101535 - Red   AX101540 - Brown
AX101536 - Yellow   AX101541 - Silver

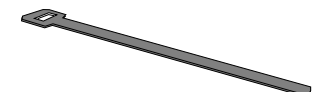Termination Bar (72X)
AX101719

Standard Tools and Materials

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

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

Velcro Strip
18" AX101519 (2X)

> *** 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!

Cross-Connect Routing

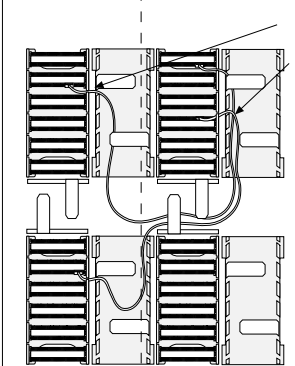**1. Route jumper wires as shown.**
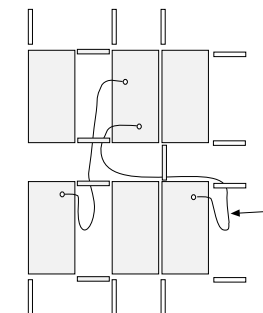
3" of slack

2. Using your hand, form a three inch portion of slack close to lower connection.
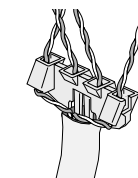
Route patch cords from field to field.

Distribution   Equipment

Patch cords always enter and exit on the right side of the mount.

GigaBIX IDC System Layouts
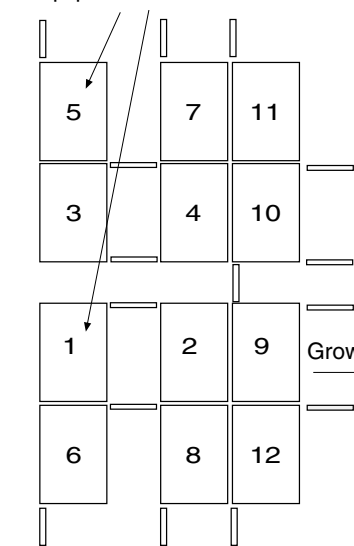
Cross-Connect Layout
Equipment or Distribution Fields

5	7	11
3	4	10
1	2	9	Growth
6	8	12

Patch Cord Layout
Distribution Field   Equipment Field

| 7 | 8 |
| 5 | 6 |

8"

Growth

| 3 | 4 |
| 1 | 2 |
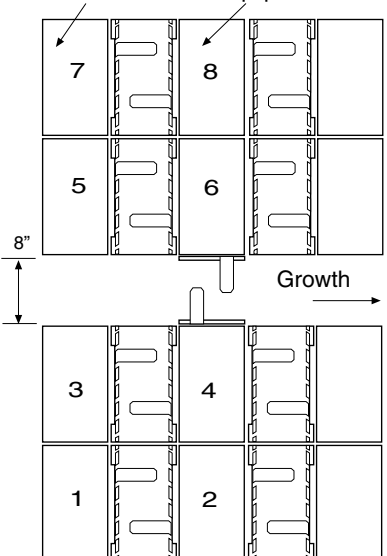
Cross-Connect Wire Layout | Patch Cord Layout

1. Marking Wall/Mounting Surface
Measure, and using a level, mark wall or mounting surface.
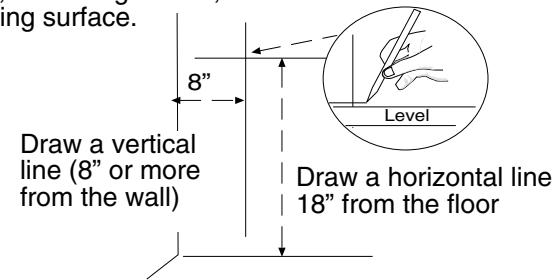
8"

Level

Draw a vertical line (8" or more from the wall)

Draw a horizontal line 48" from the floor

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

8"

Level

Draw a vertical line (8" or more from the wall)

Draw a horizontal line 18" from the floor

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

Keep mount straight with line!

Position mount with arrow facing up.

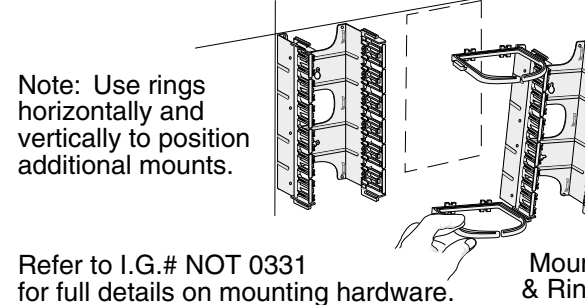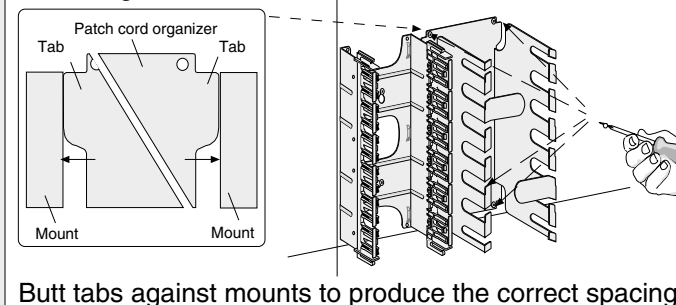Mount #1

False Wall
Cut out hole for cables routing through wall

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

Mount #1

Refer to PX101798 for details on installing cable management modules
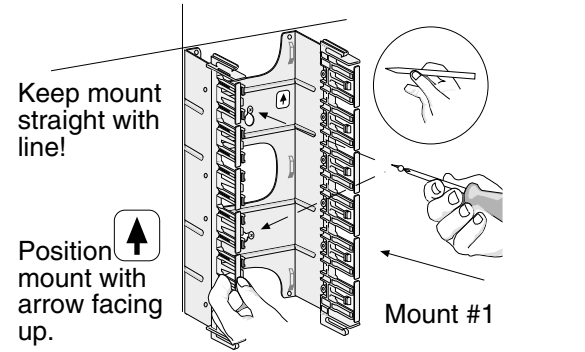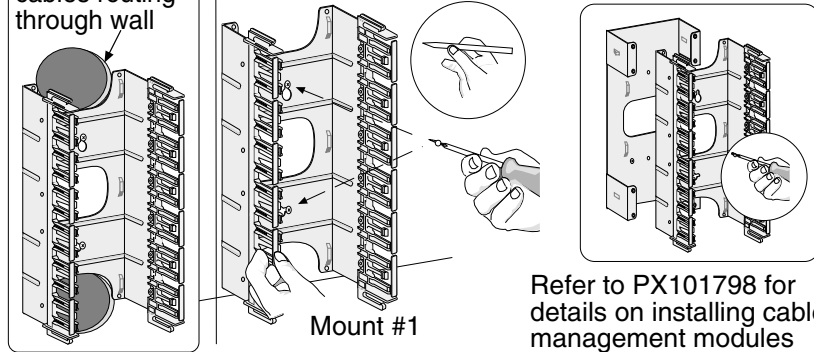
3. Attaching additional GigaBIX Mounts
Attach two rings in second mount and engage in first mount. Secure second mount.

Note: Use rings horizontally and vertically to position additional mounts.

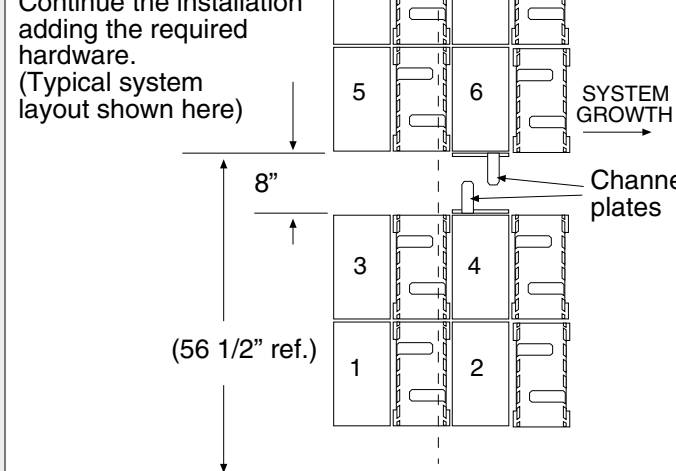Refer to I.G.# NOT 0331 for full details on mounting hardware.

Mount #2 & Rings

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.

Patch cord organizer

Tab   Tab

Mount   Mount

Butt tabs against mounts to produce the correct spacing.

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

Equipment or Distribution fields

5	7	11
3	4	10
1	2	9
6	8	12

SYSTEM GROWTH
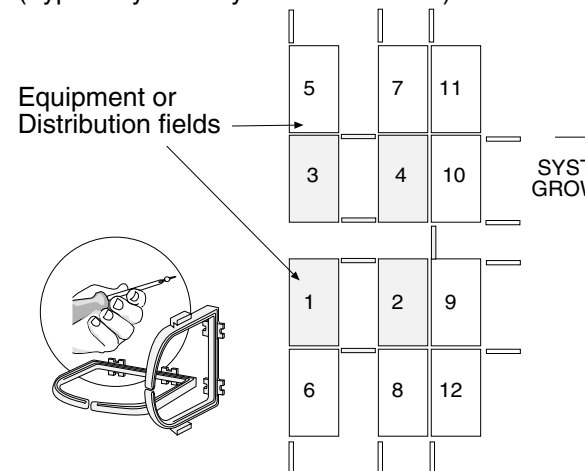
4. Completing Wall Hardware
Continue the installation adding the required hardware. (Typical system layout shown here)

Distribution | Equipment

| 7 | 8 |
| 5 | 6 |

SYSTEM GROWTH

8"

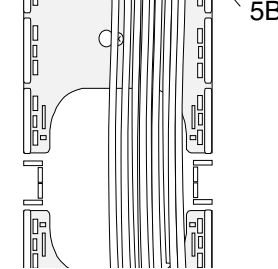| 3 | 4 |
| 1 | 2 |

(56 1/2" ref.)

Channel plates

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5. Routing 4-pair Cables
5A. Route lower mount cable bundle first. (Note: Cables routing from the top down shown here)
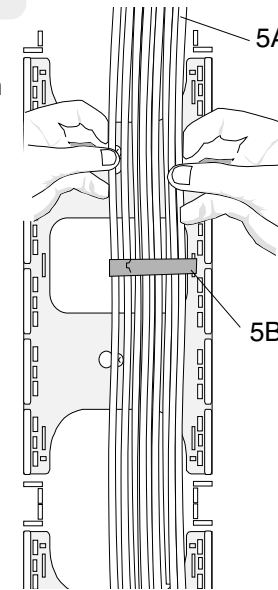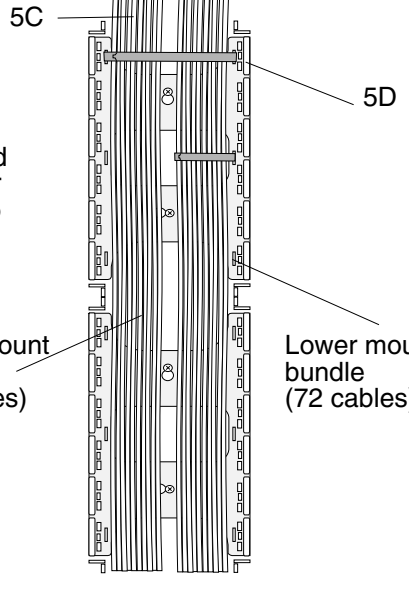
5B. Using Velcro secure bundle form in the center lance on the right side of the mount

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

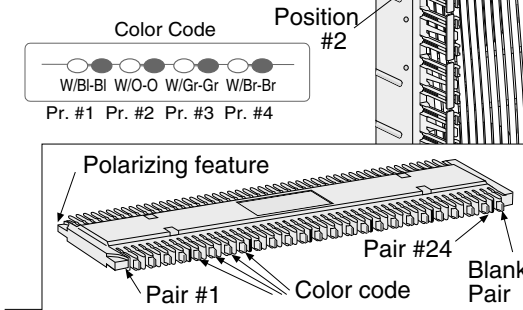5C. Form and route upper mount cable bundle into upper mount

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

5A   5C   5D   5B

Upper mount bundle (72 cables)

Lower mount bundle (72 cables)
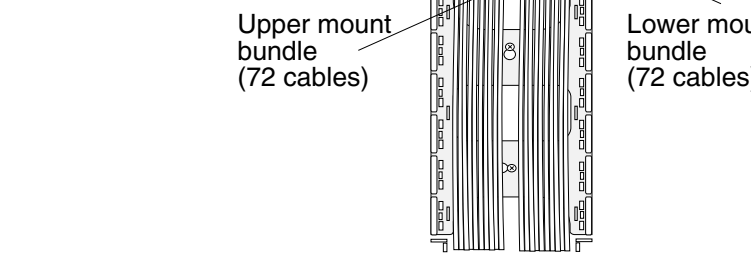
6. Terminating Connectors
6A. Snap a GigaBIX connector into the second position from the top in the upper mount. Use the color code and polarizing feature to correctly orient the connector.

Color Code

W/Bl-Bl   W/O-O   W/Gr-Gr   W/Br-Br

Pr. #1   Pr. #2   Pr. #3   Pr. #4

Position #2

Polarizing feature

Pair #1   Color code   Pair #24   Blank Pair

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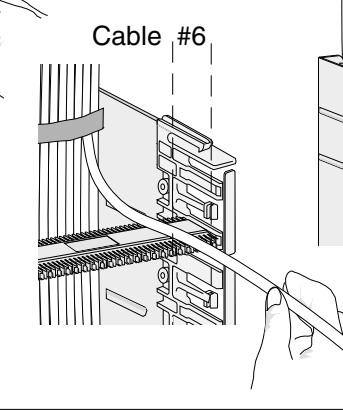
Cable #6

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

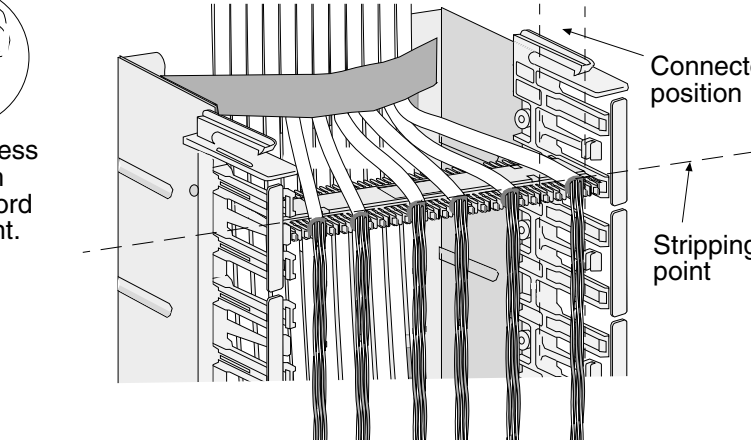6D. Remove a small portion of the jacket to expose rip cord.

Cables: 1 2 3 4 5 6
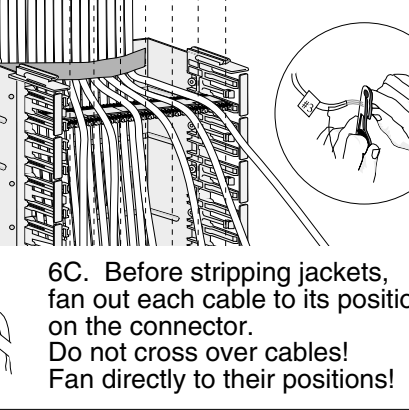
6E. Slit jacket to the edge of the connector.
Note: Hold each cable taut to its position on the connector when stripping!

6F. Cut off excess jacket, strength member and cord at the strip point.
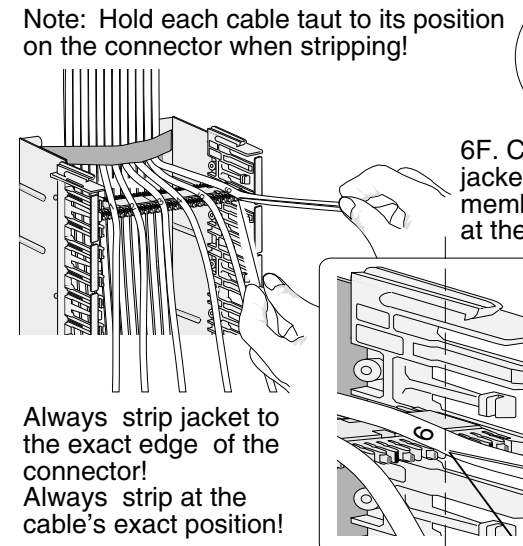
Always strip jacket to the exact edge of the connector! Always strip at the cable's exact position!

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.

Connector position

Stripping point

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!