

Installation Guide

BELDEN 110 Cross-Connect System Multi-Pair Cable

BELDEN

Version 02.00 2007

PX101723

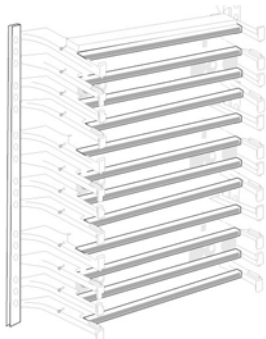
1 of 4 pages

BELDEN 110 Wiring Block Kits-Multi-Pair Cable

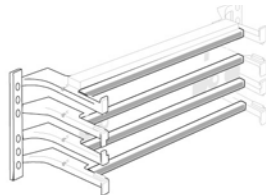
BELDEN 110 System - Basic Components

BELDEN 110 System - Accessories

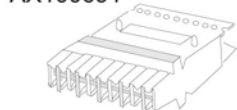
Standard Tools and Materials



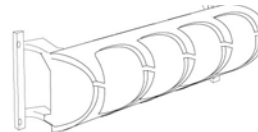
300-Pair Wiring Block with Legs (4 and 5-Pair) AX100692



100-Pair Wiring Block with Legs (4 and 5-Pair) AX100691



(5-Pair) Connecting Block AX100708



Cable Management Trough with Legs AX100706



Pre-Printed Label Sheets AX100712 to 720



Design Strip: AX100721



Cable Management Ring Small: AX100703 Large: AX100704

- Marker
- Measuring tape
- Spirit Level
- #12 x 3/4" wood screws (or appropriate wall anchors)
- Cutters
- 110 type connecting tool
- Multi-pair connecting tool

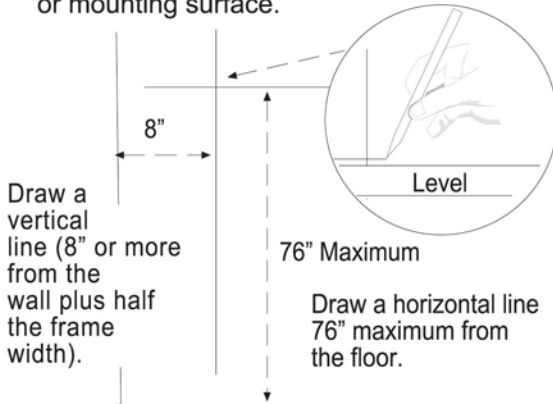
Kit Configurations

	AX100693	AX100694	AX100695	AX100696
Wiring Block, 100-Pair	1	1	-	-
Wiring Block, 300-Pair	-	-	1	1
Connecting Block, 4-Pair	20	-	60	-
Connecting Block, 5-Pair	4	20	12	60
Designation Strip	2	2	6	6

Installing Wiring Blocks with Legs

Marking Wall/Mounting Surface

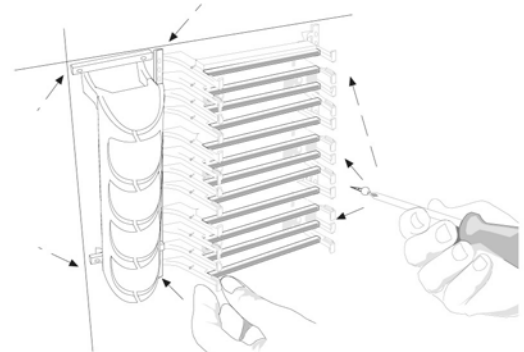
Measure, and using a level, mark wall or mounting surface.



Attaching 300-Pair Wiring Block

1A

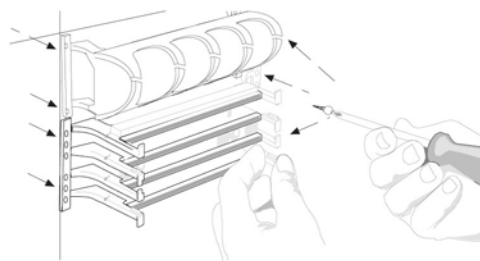
Orient trough vertically on lines and using #12 x 3/4" wood screws, fasten to wall. Orient 300-Pair wiring block on lines and using #12 x 3/4" wood screws, fasten to wall.



Attaching 100-Pair Wiring Block

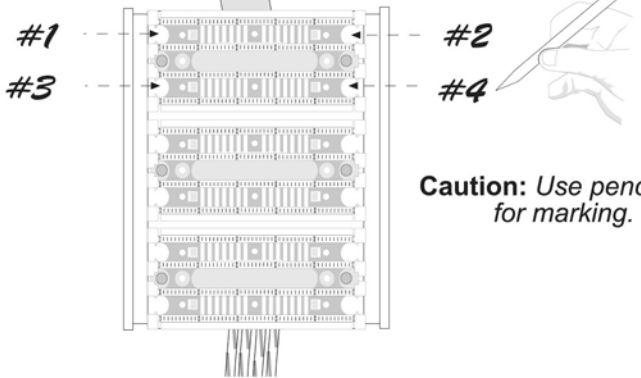
1B

Orient trough horizontally on lines and using #12 x 3/4" wood screws, fasten to wall. Position 100-Pair wiring block below trough and using #12 x 3/4" wood screws, fasten to wall.

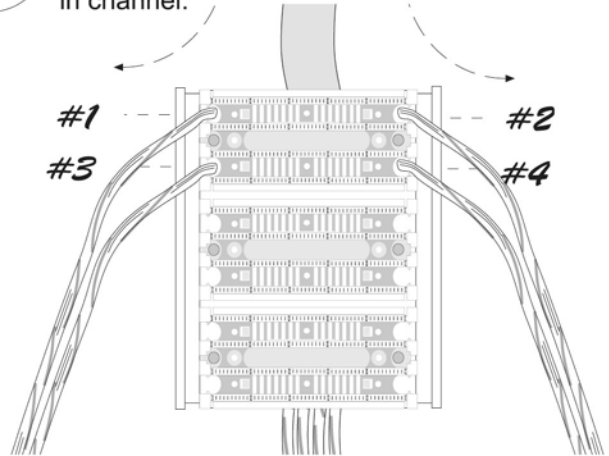


Preparing Multi-Pair Cables

2 Identify cable positions on wall next to corresponding slots in block. Sort pair binders into 25-Pair groups.

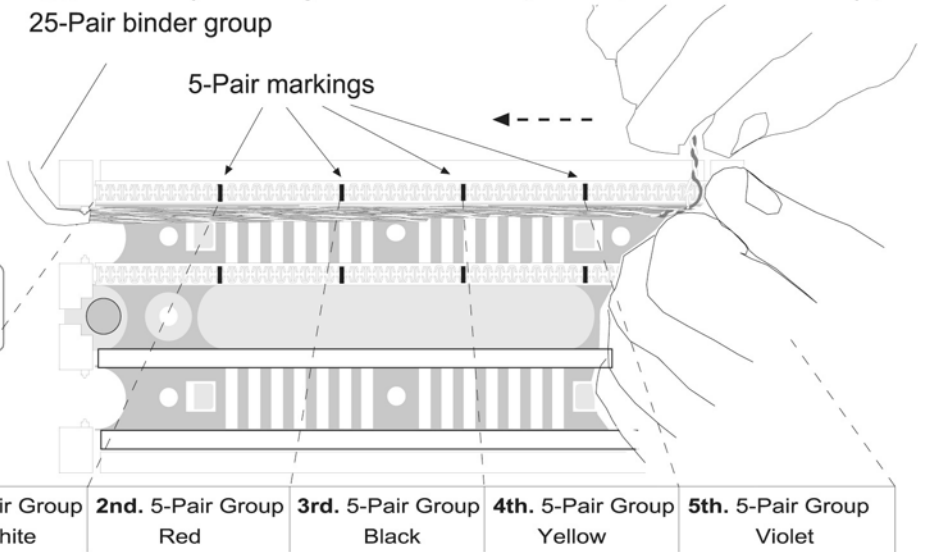
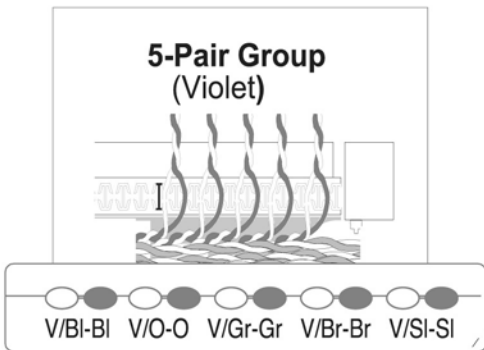


3 Following cable binders, route binder groups through appropriate slots in channel.

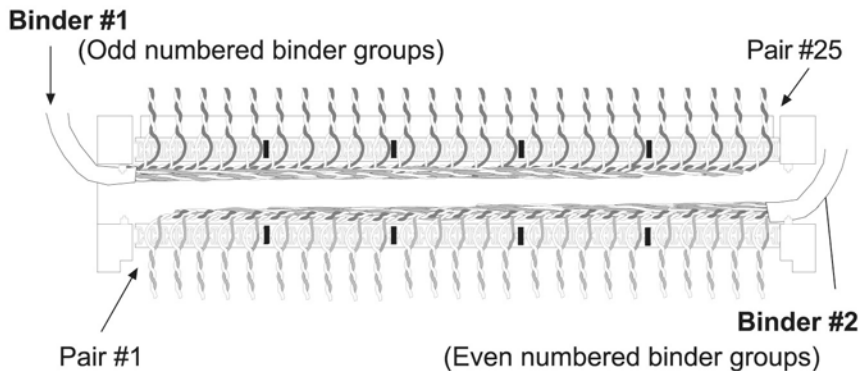


Wiring the Block

4 Following color code, position conductors over pair splitter into slots. Continue positioning the remaining twenty four pairs, always working from the furthest position, back to binder entry point.



5 Set the **five groups** of binder #2 in lower row, according to color code, and dress wires neatly in channel. Start with pair #1 and work to the right.



Important! Before terminating, visually check wiring to color code! (Use black markings as reference).



The top two rows are now ready for terminating!

6

After terminating the first two rows, select and install binders #3 and #4 in the same way as binders #1 and #2.

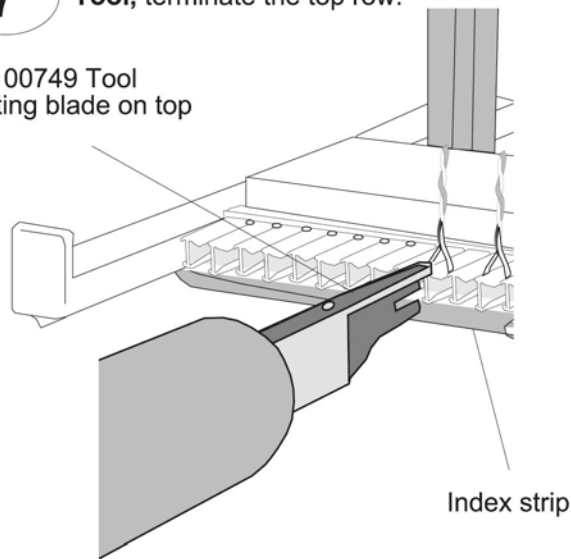
Note: All subsequent upper and lower rows are wired in the same sequence.

Terminating Multi-Pair Cable

7

Using the ***BELDEN 110 Connecting Tool**, terminate the top row.

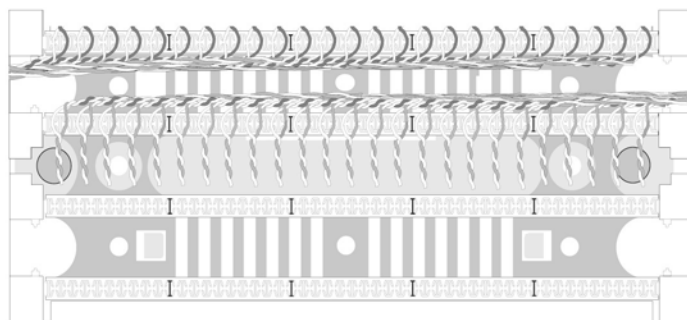
AX100749 Tool
Cutting blade on top



* or any commercially available 110 tool.

8

Terminate bottom row in the same sequence as the top row.



Important!
Before terminating,
again visually check
wiring to color code!

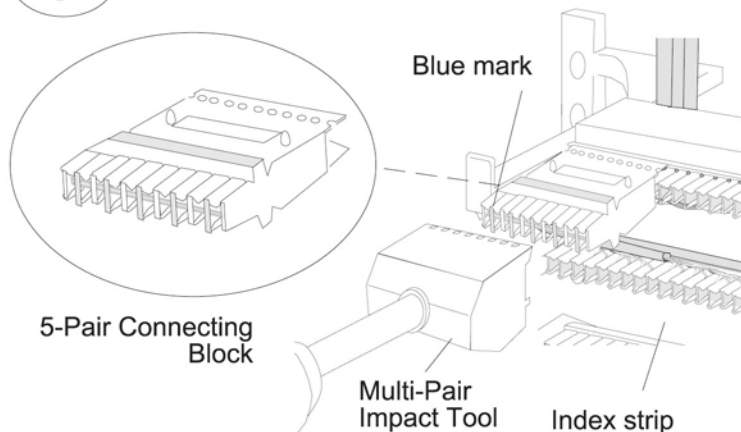


Terminate subsequent cables repeating all previous steps!

5-Pair Connecting Blocks

9

Position 5-Pair connecting blocks and seat with Multi-Pair Impact Tool.



Note: Care must be taken to align all connecting blocks with the blue color code on the left!

Caution: The blocks can be accidentally installed up-side-down!

Position and seat one block at a time.

Caution: Be sure blocks are **completely seated!!**

10

Repeat procedure for remaining blocks in frame. The block is now ready for cross-connect wiring or patch cords.

