# **Installation Guide**

## **BELDEN 110 Cross-Connect System**

4-Pair Cable

Version 02.00 2007

PX101722

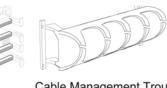
BELDEN

1 of 4 pages

#### BELDEN 110 Wiring Block Kits-4-Pair Cable

BELDEN 110 System - Basic Components

BELDEN 110 System - Accessories



Design Strip: AX100721

Cable Management Trough with Legs AX100706





Cable Management Ring Small: AX100703 Large: AX100704

#### Standard Tools and Materials

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

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

(4-Pair) Connecting Block Sheets AX100707 AX100

100-Pair Wiring Block

with Legs (4 and 5-Pair)

ÀX100691

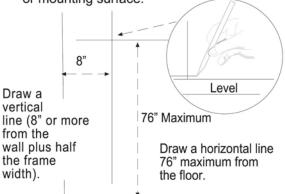
Pre-Printed Label Sheets AX100712 to 720

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

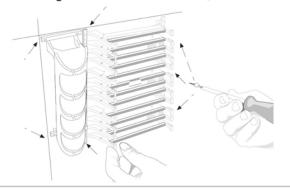
Measure, and using a level, mark wall or mounting surface.



#### Attaching 300-Pair Wiring Block



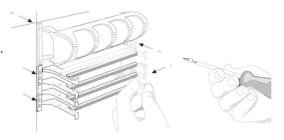
Orient trough vertically on lines and using #12 x 3/4" wood screws, fasten to wall. Orient 300-Pair wiring block on lines and using #12 x 3/4" wood screws, fasten to wall.

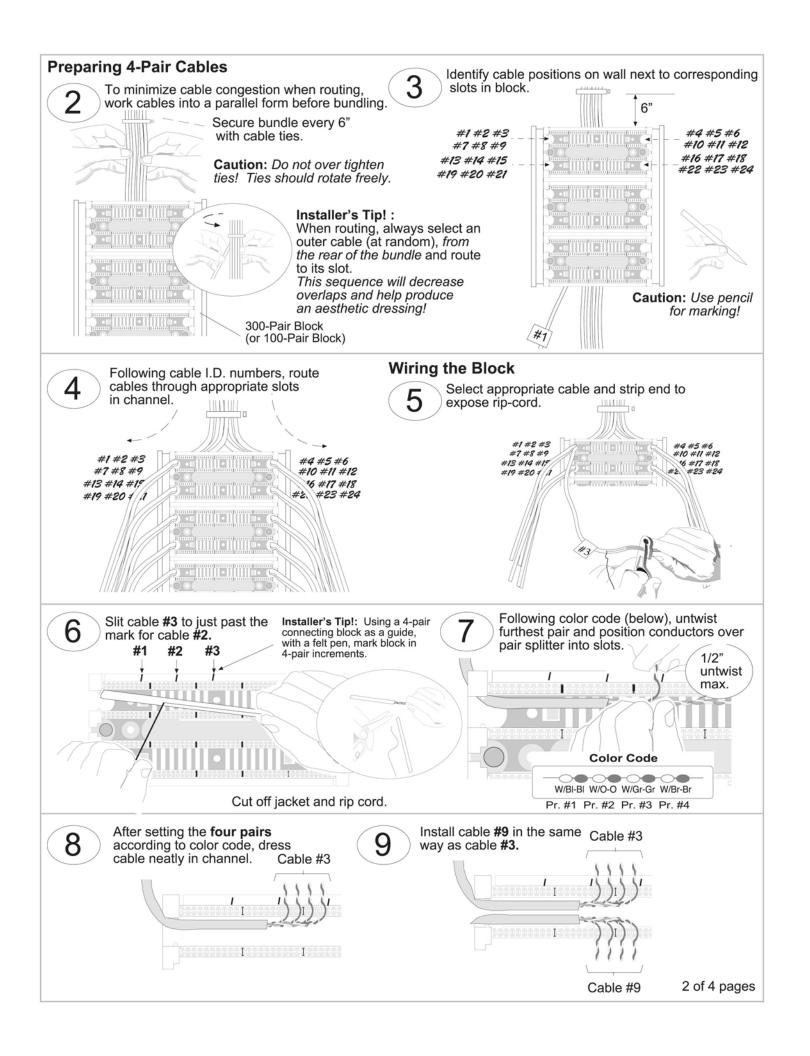


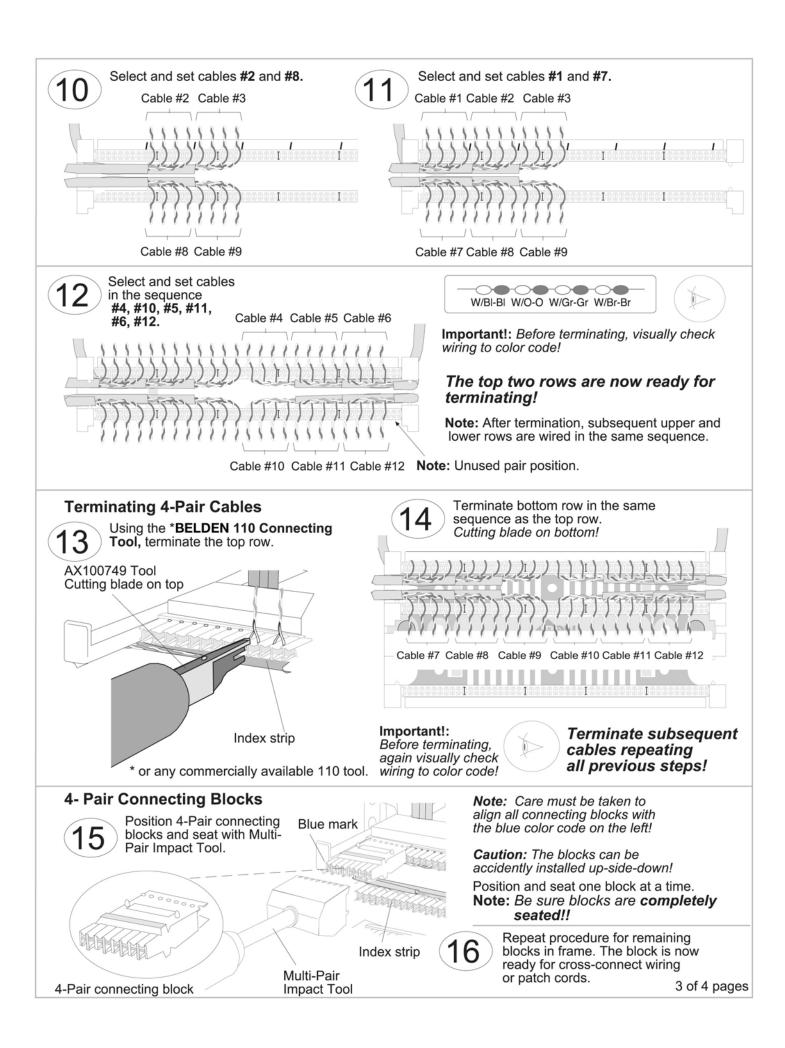
#### **Attaching 100-Pair Wiring Block**



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.



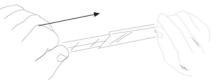




#### **Preparing Labels**

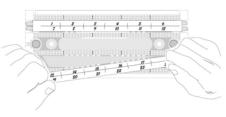
17

Slide pre-printed or hand written I.D. strips into clear protective covers.



18

Snap designation strips into channels between upper and lower rows.



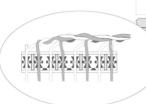
#### **Terminating Jumper Wires**

19

Run jumper wires through slots to connecting blocks. Position jumpers in slots according to color code/wiring plan marked on block.



Do NOT use Multi-Pair Impact Tool to terminate cross-connect wires in connecting blocks.





NOTE: Only 22 to 26 AWG insulated wire should be terminated to the connecting block. (Maximum diameter over insulation is 1.3 mm (.050 in.).

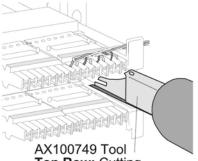
20 Connect jumpers using the BELDEN 110 Connecting Tool.



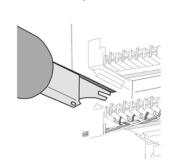
AX100749 Tool **Bottom Row:** Cutting blade on top!

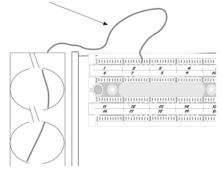


Using finger, form approx.1.5" of slack at each end of the jumper wire connection.



AX100749 Tool Top Row: Cutting blade on bottom!





#### **Field Connection: Jumper Wires**

Typical BELDEN110 System: 300-Pair Blocks, Jumper Wires, Small Distribution Rings 8" minimum from ceiling Distribution Field (or Equipment Field) 11 76" from floor to highest block 2 4 6 8 10 12 3 7 9 5 11 8" from wall or equipment 8 10 12 Equipment Field (or Distribution Field)

Capacity: 3,600 Pairs (for larger installations up to 7200 pairs, use Large Distribution Ring).

#### **Field Connection: Patch Cords**

Typical BELDEN 110 System: 100-Pair Blocks, Patch Cords, Small Distribution Rings 8" minimum Small Distribution Rings (2) from ceiling D Ε 7 7 1 1 76" from to highest block 2 2 8 8 Maximum: 6 blocks 3 9 O W in vertical stack Τ 10 4 10 Н 5 5 11 11 8"minimum from wall or 6 12 12

4 of 4 pages



For additional technical information on our connecting products, call 1-800-858-7954

© 1996, 2007 Belden, Inc. Printed in Canada

This Installation Guide is available in the "Document Center" of the Belden Networking website - www.belden.com