

VXC™ Coupler and VXC™ Assembly

Cat. Nos. SBCPI-00S, SBCPI-18x



WARNINGS:

- **TO AVOID DEATH OR INJURY**, never push objects of any kind into this product through openings, and never touch insulated wires or terminals unless the wiring has been disconnected at the network interface.
- **DO NOT** use this product near water—e.g., near a tub, basin, kitchen sink or laundry tub, in a wet basement, or near a swimming pool.
- **READ AND UNDERSTAND ALL INSTRUCTIONS. FOLLOW ALL WARNINGS AND CAUTIONS MARKED ON THE PRODUCT.**

CAUTIONS:

- Never install communications wiring or components during a lightning storm.
- Never install communications components in wet locations unless the components are designed specifically for use in wet locations.
- Use caution when installing or modifying communications wiring components.

PK-A3352-10-00-5B

INSTALLATION INSTRUCTIONS

ENGLISH

Product Description

VXC™ Coupler

The VXC Coupler is a shielded device, which may be used with any shielded cable construction or unshielded (UTP) cables.

It is used to connect two pieces of category rated 4-pair data cable. The data cable may have solid conductors (typically horizontal cable) or stranded conductors (typically patch cords).

The coupler is rated as a Category 6A device, but may also be used in Category 6 or Category 5e applications, and is plenum-rated. When used with a plenum-rated patch cord (such as Leviton catalog number 6ASP0-xxx) and/or plenum-rated cable, the installation will be fully compliant for use in a plenum space.

VXC™ Assembly

The VXC Assembly consists of a coupler, pre-terminated to a plenum patch cable on one end. In this application, termination on the second end of the coupler is all that is required. Follow instructions below, based on the construction of cable being connected to complete installation.

Usage:

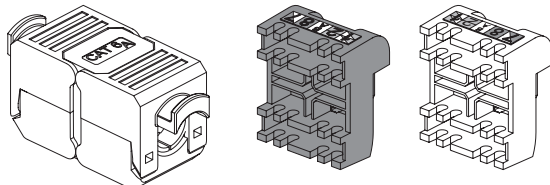
- Used in the middle of a horizontal cable run as a single-cable consolidation point. Both cables are typically solid conductors.
- Used to terminate a single-ended patch cord to the end of a horizontal cable, creating a Modular Plug Terminated Link (MPTL). The cable is typically a solid-conductor, and the patch cord is typically a stranded conductor. The VXC Assembly is provided with the patch cord pre-terminated.

You Will Need:

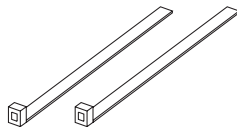
- Data cable strip tool
- Flush cutter
- Small screwdriver

VXC™ Coupler Includes:

- Coupler body
- Wire managers - (1) black, (1) white

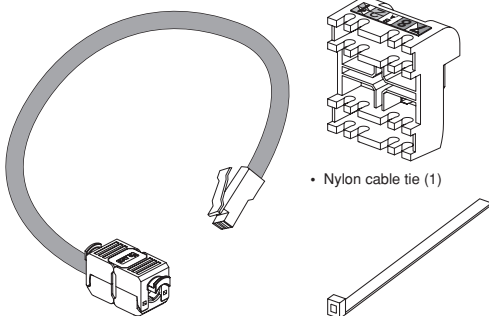


- Nylon cable ties (2)



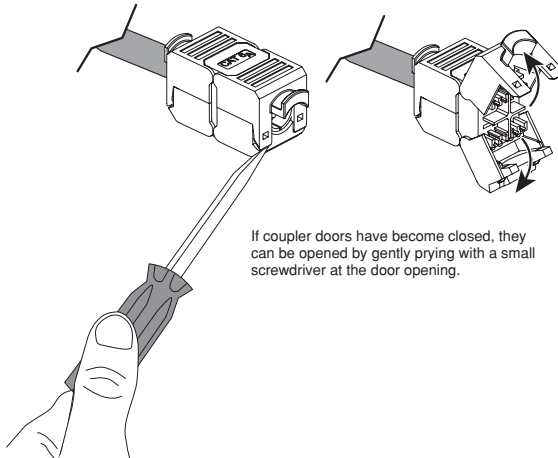
VXC™ Assembly Includes:

- Coupler pre-wired with Category 6A single-ended patch cord.
- White wire manager



Installation:

1. Open coupler (if necessary).

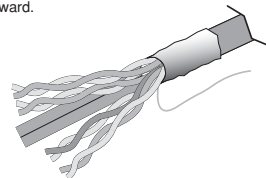


If coupler doors have become closed, they can be opened by gently prying with a small screwdriver at the door opening.

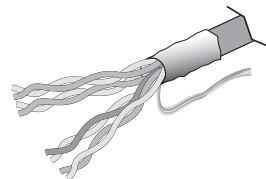
2. Prepare wire.

Shielded:

- Strip 3 inches (7.62 cm) of jacket from end of Category 6A cable.
NOTE: This strip length is required for proper shield termination.
- Pull all cable foils straight back along the cable jacket, metal side outward. Depending on the cable construction, it may require a half-twist in the foil for it to present metal side outward.
- Pull back drain wire.

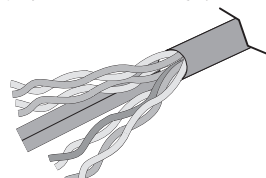


- If the shielded cable has a braid shield, comb the braid strands out and twist them together to form a drain wire. Pull all pair foils back with a half-twist to keep the metal side outward.
- Remove any strip string, cross separator, MYLAR® wrap, or cable elements, other than the four pairs.

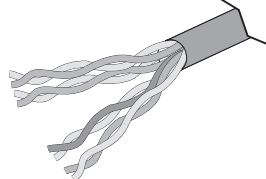


Un-shielded:

- Strip 1.5 inches (3.8 cm) of jacket from end of Category 6A cable.



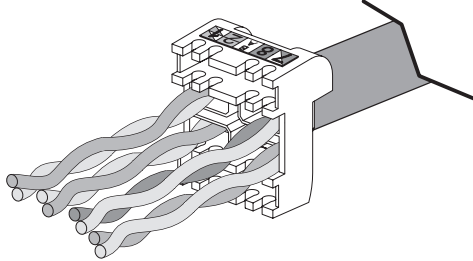
- Remove any strip string, cross separator, MYLAR® wrap, or cable elements, other than the four pairs.



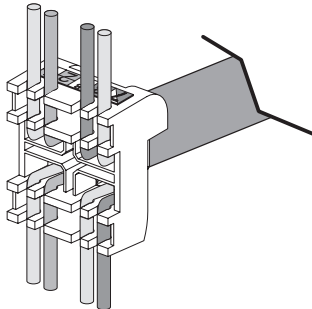
3. Route wire pairs.

Un-shielded cable shown.

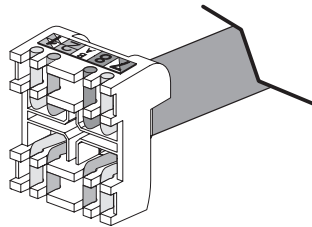
- Select the white wire manager.
- Observe the wire manager label and choose either the T568B or T568A wiring method. Refer to the "Determining Wiring Method" section below.
NOTE: In the VXC Assembly, both the plug and the pre-wired connection are wired T568B. The device may be wired on the user side to either T568A or T568B, whichever matches the building's cabling system.
- Feed the twisted pairs into the rear of the wire manager, matching pair colors to the wiring label.
NOTE: The rear of the wire manager is the side with the circular feature.
- Push the wire manager as far down the cable as possible. The wire manager should touch, or nearly touch, the cable jacket.



- Slightly untwist and set pairs into slots, observing polarity indicated on the wiring label.



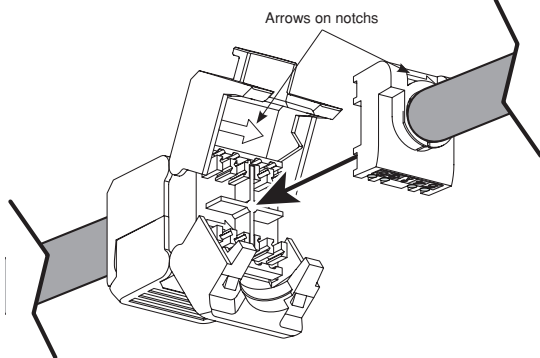
- Trim all four pairs flush with the sides of the wire manager.



4. Terminate cable into coupler.

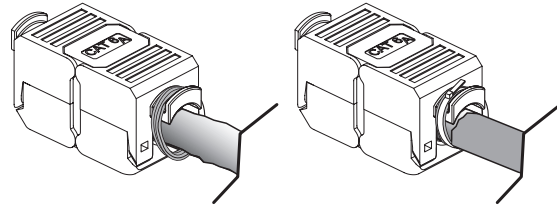
Un-shielded cable shown.

- Align the notch in wire manager with the arrow on the coupler for correct termination.
- Hold the two pieces together and squeeze the doors on that side of the coupler to terminate the cable.
- For a shielded cable, ensure that any foil or drain wire elements do not get caught in the coupler door latches.

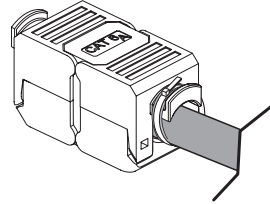


5. Secure the cable.

For shielded cables: Wrap drain wire around coupler arm (making sure that drain stays in arm grooves) and secure with nylon cable tie. Trim off excess cable tie.



For un-shielded cables: Wrap nylon cable tie around coupler arm and trim off excess.



NOTES:

- Ensure that the drain wire engages and rests in the grooves of the arm. This is necessary to obtain optimal shield to device continuity.
- Have cable tie ready to tighten, by having it cinched loosely around the cable near the coupler. When ready, move it onto coupler arm and tighten.
- Cinching the cable tie in the same direction that the drain wire is wrapped helps ensure that drain wire is tightly wrapped and secured in coupler arm grooves.
- When coupling an unshielded (UTP) horizontal cable to a shielded single-ended patch cord, it is NOT necessary to attach the patch cord shield elements. The patch cord foil(s) and drain wire may be simply cut away.

6. For VXC Coupler: Repeat all termination steps for the other side of the coupler, using the other wire manager.

Installation Note

When the VXC Coupler or VXC Assembly is used in a Modular Plug Terminated Link (MPTL) application (terminated with a single-ended patch cord), provide appropriate cable support within 12 inches (~30 cm) from the coupler, to eliminate any stress (due to the weight of the coupler) on the modular plug connection.

Testing

- When using as a consolidation point (connecting two sections of horizontal cable), the installation should be tested as a Permanent Link.
- When terminated with a single-ended patch cord, the installation should be tested as a MPTL. This test is performed with a field tester Permanent Link Adapter at the jack end of the link, and a field tester Patch Cord Adapter at the plug end of the link.
NOTE: The patch cord adapter must be the same category rating as the installed cable.
- Refer to field tester instructions for details on setting up and conducting these tests.

Determining Wiring Method

- A coupler installed as a consolidation point (between two sections of horizontal cable) should be wired to the pattern that matches the building wiring.
NOTE: Most commercial buildings in the United States are wired T568B, however, a small percentage are wired T568A. In Canada, many buildings are wired T568A.
- For a coupler which is wired as a MPTL:
 - The patch cord side must be wired to match the wiring pattern of the modular plug of the patch cord (most are wired T568B, but this must be verified).
 - The default wiring method for the VXC Assembly is T568B (at both modular plug and wire manager connections).
 - The cable side should be wired to match the building wiring.

FOR CANADA ONLY

For warranty information and/or product returns, residents of Canada should contact Leviton in writing at Leviton Manufacturing of Canada ULC to the attention of the Quality Assurance Department, 165 Hymus Blvd, Pointe-Claire (Quebec), Canada H9R 1E9 or by telephone at 1 800 405-5320.

LIMITED 1 YEAR WARRANTY AND EXCLUSIONS

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use for one year from the purchase date. Leviton's only obligation is to correct such defects by repair or replacement, at its option. For details visit www.leviton.com or call 1-800-824-3005. This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other or implied warranties of any kind, including merchantability and fitness for a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to one year. Leviton is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.