

Corning CCH-CS12-AE-P00RE

Corning CCH-CS12-AE-P00RE Pigtailed Splice Cassette User Manual

Model: CCH-CS12-AE-P00RE

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1. OVERVIEW

The Corning CCH Pigtailed Splice Cassette, model CCH-CS12-AE-P00RE, is designed to facilitate faster field splicing and provide modular management of connectorization within fiber optic housings. This cassette is preloaded and pre-routed for efficient fusion splicing of individual or ribbon fiber pigtails, utilizing the same space-saving platform as standard CCH splice cassettes. It aims to reduce field labor by streamlining components and features, allowing for greater efficiency in fiber optic installations.

The cassette is prepped with a 3-meter pigtail assembly, compatible with all pre-existing CCH panel connector options. It features 900 µm cabling at the connector panel for enhanced durability and colored 250 µm fibers for ease of splicing. Strain relief is pre-applied from the manufacturing facility. This modular design allows for easy access to fibers within an individual cassette without disturbing other fibers in the housing.

2. KEY FEATURES

- **Part Number:** CCH-CS12-AE-P00RE
- **Fiber Type:** Single-mode (OS2)
- **Connector Type:** LC Duplex Shuttered
- **Fiber Count:** 12 Fiber
- **Polish Type:** UPC Polish
- **Cable Type:** 250 µm (colored for ease of splicing)
- **Durability:** 900 µm at the connector panel
- **Included:** 12 Splice Protectors
- **Modularity:** Allows splicing away from the rack housing
- **Compatibility:** Designed for use with CCH-01U/2U/3U/4U housings

3. WHAT'S IN THE BOX

The package for the Corning CCH-CS12-AE-P00RE Pigtailed Splice Cassette typically includes the following components:

- One (1) Pigtailed CCH Adapter Panel (pre-routed with 3m pigtail assembly)
- One (1) Rail for use with CCH-01U/2U/3U housings
- Two (2) Rails for use with CCH-04U housings
- Grommets for additional strain relief
- Cable ties for additional strain relief
- Protective braided tubing for incoming cable
- Appropriate quantity and type of heat-shrink splice protectors (12 included)



Figure 1: The Corning CCH-CS12-AE-P00RE Pigtailed Splice Cassette as packaged, showing the front view with product labels and connectors.

4. SETUP AND INSTALLATION

The CCH pigtailed splice cassette is designed for straightforward installation within compatible Corning CCH housings. The pre-routed pigtails and included accessories simplify the splicing process.

4.1. General Installation Steps

1. **Housing Preparation:** Ensure your CCH-01U, CCH-02U, CCH-03U, or CCH-04U housing is properly mounted and ready for cassette insertion.
2. **Cassette Insertion:** Slide the pigtailed splice cassette into the designated slot within the CCH housing. Use the appropriate rails provided (one rail for 01U/02U/03U, two rails for 04U).
3. **Incoming Cable Routing:** Route the incoming fiber optic cable into the housing and through the protective braided tubing provided. Secure the cable using the grommets and cable ties for strain relief.
4. **Pigtail Routing:** The pigtails are pre-routed within the cassette. Ensure they are not kinked or excessively bent.
5. **Splicing:** Perform fusion splicing of the incoming fibers to the 250 μm colored pigtail fibers. The modular design allows splicing to be done away from the rack housing in a suitable workspace, if preferred. Utilize the included heat-shrink splice protectors for each splice.
6. **Connectorization:** Connect the LC UPC duplex shuttered connectors to the appropriate ports on your equipment or patch panel.

4.2. Routing Diagrams and Details



Figure 2: Detailed routing diagrams for the CCH-CS12-AE-P00RE cassette, showing fiber paths for 1U/2U/3U housings, pigtail management, splice tray layout, and incoming cable routing. For 4U routing, refer to Corning document SRP 003-895.

For detailed routing instructions specific to your CCH housing type, refer to the diagrams provided on the product packaging and the official Corning documentation. Specifically, for 4U routing, consult Corning document SRP 003-895.



Figure 3: Side view of the CCH-CS12-AE-P00RE cassette, highlighting the LC UPC duplex shuttered connectors and the compact design.

4.3. Important Resources

- Corning LAN-1550-AEN.pdf: www.corning.com/LAN-1550-AEN.pdf
- Corning 003-895.pdf (for 4U routing details): www.corning.com/003-895.pdf

5. OPERATION

The Corning CCH Pigtailed Splice Cassette is a passive component designed to organize and protect fiber optic splices and connections within a fiber optic housing. Its primary function is to provide a secure and accessible environment for fusion splicing and subsequent connection to active equipment or patch panels.

5.1. Fiber Management

Once installed and spliced, the cassette effectively manages the fiber slack and protects the delicate splice points. The modular design allows for individual cassette access, meaning you can work on or inspect fibers within one cassette without disturbing the connections or splices in adjacent cassettes within the same housing.

5.2. Connectivity

The LC UPC duplex shuttered connectors on the cassette provide a reliable interface for connecting to network devices, switches, or other fiber optic equipment. The shutters protect the ferrule ends from dust and debris when not in use, maintaining optimal signal integrity.

6. MAINTENANCE

Proper maintenance of fiber optic components is crucial for ensuring long-term performance and reliability. While the CCH splice cassette itself requires minimal maintenance, the connected fibers and connectors do.

6.1. Connector Cleaning

Regular cleaning of the LC UPC duplex connectors is highly recommended. Dust, dirt, and oils can significantly degrade optical performance. Use only approved fiber optic cleaning tools and methods, such as lint-free wipes with isopropyl alcohol or specialized one-click cleaners. Always inspect connectors with a fiber inspection microscope before and after cleaning.

6.2. Cable Management

Ensure that all incoming and outgoing cables are properly routed and secured within the housing, avoiding sharp bends

or excessive tension. Verify that strain relief mechanisms (grommets, cable ties) are functioning correctly.

6.3. Environmental Considerations

Keep the housing and cassette free from dust and moisture. Operate within the specified environmental conditions to prevent damage to the fiber optic components.

7. TROUBLESHOOTING

Most issues related to fiber optic connectivity stem from dirty connectors, damaged fibers, or improper splicing. The CCH splice cassette itself is a passive component and is unlikely to be the direct cause of signal issues unless physically damaged.

7.1. Common Issues and Solutions

- **High Optical Loss / No Signal:**
 - *Cause:* Dirty connectors. *Solution:* Clean all LC UPC connectors thoroughly using appropriate fiber optic cleaning tools.
 - *Cause:* Poor fusion splice. *Solution:* Re-inspect splices using an OTDR or visual fault locator (VFL). Re-splice if necessary.
 - *Cause:* Kinked or damaged fiber within the cassette or housing. *Solution:* Carefully inspect fiber routing for any sharp bends or physical damage.
 - *Cause:* Incorrect fiber type (e.g., multimode connected to single-mode equipment). *Solution:* Verify that OS2 single-mode fiber is used throughout the link.
- **Intermittent Connection:**
 - *Cause:* Loose connector. *Solution:* Ensure all LC connectors are fully seated and latched.
 - *Cause:* Vibration or movement affecting connections. *Solution:* Ensure the cassette is securely installed in the housing and all cables are properly strain-relieved.

If issues persist after performing these checks, it is recommended to use specialized fiber optic testing equipment (e.g., Optical Power Meter, OTDR) to diagnose the exact location and nature of the fault.

8. TECHNICAL SPECIFICATIONS

Attribute	Detail
Part Number	CCH-CS12-AE-P00RE
Fiber Count	12 Fiber
Fiber Type	Single-mode (OS2)
Connector Type	LC Duplex Shuttered
Polish Type	UPC
Pigtail Length	3 meters
Cable Type (Pigtail)	250 μm colored fibers, 900 μm at connector panel
Splice Protectors Included	12 heat-shrink splice protectors
Compatible Housings	Corning CCH-01U, CCH-02U, CCH-03U, CCH-04U
Package Dimensions	14 x 8 x 3 inches
Item Weight	3 Pounds
Manufacturer	Corning
Date First Available	August 7, 2025

9. WARRANTY INFORMATION

Specific warranty terms and conditions for the Corning CCH-CS12-AE-P00RE Pigtailed Splice Cassette are provided by the manufacturer, Corning. Please refer to the official documentation included with your product or visit the official Corning website for detailed warranty information, including coverage period, terms, and conditions.

Note: This manual does not constitute a warranty. All warranty claims must be made directly through Corning or an authorized reseller.

10. SUPPORT AND CONTACT INFORMATION

For technical support, product inquiries, or assistance with the Corning CCH-CS12-AE-P00RE Pigtailed Splice Cassette, please contact Corning directly.

10.1. Manufacturer Contact

Manufacturer: Corning





Please visit the official Corning website for the most up-to-date contact information, technical documentation, and support resources.

- **Corning Official Website:** www.corning.com

When contacting support, please have your product model number (CCH-CS12-AE-P00RE) and any relevant purchase details ready.

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Related Documents

	<p>Corning Closet Connector Housings (CCH): Features, Specifications, and Accessories</p> <p>Comprehensive guide to Corning's LANscape® Pretium® Closet Connector Housings (CCH). Details features, specifications, ordering information, splice cassettes, termination cassettes, pigtailed cassettes, and various accessories for fiber optic connectivity.</p>
	<p>Corning Closet Connector Housing (CCH) Panel, LC Adapters Duplex, 12 F, 50 µm Multimode (OM3/4), Shuttered</p> <p>Corning Closet Connector Housing (CCH) panels provide interconnect or cross-connect capability in a housing at main cross-connects, intermediate cross-connects, telecommunication rooms, or work areas. This specific panel features 12 LC duplex adapters for 50 µm multimode OM3/4 fiber, with shuttered ports for dust protection. It is designed for data center and enterprise network applications.</p>
	<p>Corning Closet Connector Housing (CCH) Panel, LC Adapters Duplex, UPC, 6 F, Single-mode (OS2) - Product Specification</p> <p>Product specification sheet for the Corning Closet Connector Housing (CCH) Panel, LC Adapters Duplex, UPC, 6 F, Single-mode (OS2). Details include general specifications, standards, design, cable design, adapter specifications, and ordering information.</p>
	<p>Corning ALTOS® 144 F LEAF® Fiber Cable - Product Specification</p> <p>Detailed product specification for Corning ALTOS® Loose Tube, Gel-Free, All-Dielectric Cable with FastAccess® Technology 144 F, LEAF® fiber, Single-mode (OS2). Includes features, benefits, specifications, and dimensions.</p>



[pdf] User Manual Specifications

Product Spec Sheet CCH CS12 AE P00RE Specification corning Corning Optical Communications Specification SheetCorning Splice Cassette 12 Fiber LC Duplex OS2 250 Um Graybar Storea2468e19bdd20b9df7e6dfe0024a4a6158954861images salsify image upload s opTTBDXC a2468e19bdd20b9df7e6dfe0024a4a6158954861 ||| CCH Pigtailed Splice Cassette 12 F, LC UPC duplex shuttered, Single-mode OS2 Part Number: **CCH-CS12-AE-P00RE** Closet Connector Housing CCH pigtailed splice cassettes enable faster field splicing and easy modular management of connectorization within the housing. They are preloaded and prerouted f... lang:en score:53 filesize: 140.21 K page_count: 3 document date: 2023-07-19



[pdf] Specifications

Product Spec Sheet CCH CS12 AE P00RE Specification corning Corning Optical Communications Pigtailed Splice Cassette 12F LC UPC duplex shuttered Single modecdn shopify s files 1 0213 7895 7412 v 1667806547 ||| CCH Pigtailed Splice Cassette 12 F, LC UPC duplex shuttered, Single-mode OS2 Part Number: **CCH-CS12-AE-P00RE** Closet Connector Housing CCH pigtailed splice cassettes enable faster field splicing and easy modular management of connectorization within the housing. They are preloaded and prerouted f... lang:en score:48 filesize: 128.63 K page_count: 3 document date: 2022-11-07



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Product Spec Sheet CCH CS12 AE P00RE Specification corning Corning Optical Communications 4 days ago — Free of hazardous substances according to RoHS 2011 65 EU Design Fiber Count 12 Connector Configuration LC Duplex Polish UPC Panel or Module Type NAFTA AEN ecatalog optical communications US en generate product specsheet modifiedTS 2024 09 02 17 35 ||| CCH Pigtailed Splice Cassette 12 F, LC UPC duplex shuttered, Single-mode OS2 Part Number: **CCH-CS12-AE-P00RE** Closet Connector Housing CCH pigtailed splice cassettes enable faster field splicing and easy modular management of connectorization within the housing. They are preloaded and prerouted f... lang:en score:48 filesize: 369.02 K page_count: 3 document date: 2024-12-09



[pdf] Specifications Catalog

Product Spec Sheet CCH CS12 AE P00RE Specification corning Corning Optical Communications Pigtailed Splice Cassette 12 F LC UPC duplex shuttered 4 days ago · RoHS Free of hazardous substances according to 2011 65 EU Design Fiber Count Connector Configuration Duplex Polish Panel or Module Type Protectors Heat Shrink Protection Number Cable Adapter Specifications A NAFTA AEN ecatalog optical communications US en generate product specsheet modifiedTS 2025 03 28 16 34 ||| CCH Pigtailed Splice Cassette 12 F, LC UPC duplex shuttered, Single-mode OS2 Part Number: **CCH-CS12-AE-P00RE** Closet Connector Housing CCH pigtailed splice cassettes enable faster field splicing and easy modular management of connectorization within the housing. They are preloaded and prerouted f... lang:en score:46 filesize: 369.02 K page_count: 3 document date: 2025-04-01



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Product Spec Sheet CCH CS12 AE P00RE Specification coming Corning Optical Communications 1 day ago · Closet Connector Housing pigtailed splice cassettes enable faster field splicing and easy modular management of connectorization within the housing They are preloaded prerouted for quick fusion either individual or ribbon fiber pigtails using same space saving platform as standard cassette NAFTA AEN ecatalog optical communications US en generate product specsheet modifiedTS 2025 06 30 02 41 38 ||| CCH Pigtailed Splice Cassette 12 F, LC UPC duplex shuttered, Single-mode OS2 Part Number: **CCH-CS12-AE-P00RE** Closet Connector Housing CCH pigtailed splice cassettes enable faster field splicing and easy modular management of connectorization within the housing. They are preloaded and prerouted f... lang:en score:46 filesize: 369.02 K page_count: 3 document date: 2025-07-01



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new manager Wall Mountable Connector Housings WCH NAFTA AEN csmedia coming opcomm Resource Documents product family specifications rl ||| Wall-Mountable Connector Housings WCH Features and Benefits Interconnect and cross-connect capabi ... 1 Wall-Mountable Connector Housings WCH Part Number Example Part Number Product Description **CCH-CS12-AE-P00RE** CCH-CS12-59-P00RE CCH Splice Cassette, 12 F, shuttered LC UPC duplex, Single-mode... lang:en score:27 filesize: 3.07 M page_count: 11 document date: 2017-08-01



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new manager CCH CS06 6C P00RE alldataresource assets images coming ||| Closet Connector Housings CCH CCH Pigtailed Cassettes CCH pigtailed splice cassettes enable faste ... Shuttered LC only available in OS2/OM3/OM4. Part Number Example Part Number Product Description **CCH-CS12-AE-P00RE** CCH-CS12-59-P00RE CCH Splice Cassette, 12 F, shuttered LC UPC duplex, Single-mode... lang:en score:26 filesize: 1.41 M page_count: 4 document date: 2018-12-24



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Closet Connector Housings CCH manager Click to View Corning CCH1 STRN INT Strain Relief Bracket 478041 Housing Product Family Specifications alldataresource assets files coming new ||| Closet Connector Housings CCH A LANscape Pretium Solutions Product Designed based on thousands o ... Shuttered LC only available in OS2/OM3/OM4. Part Number Example Part Number Product Description **CCH-CS12-AE-P00RE** CCH-CS12-59-P00RE CCH Splice Cassette, 12 F, shuttered LC UPC duplex, Single-mode... lang:en score:25 filesize: 7.89 M page_count: 17 document date: 2023-03-28

