About ARIA

ARIA Technologies has been an industry leading manufacturer of fiber optic connectivity products since 1991.

Our customer focused approach and ability to quickly manufacture high quality custom fiber optic cable assemblies and hardware sets us apart from the competition.

Our manufacturing facility is located near Silicon Valley in the San Francisco Bay Area: 102 Wright Brothers Ave Livermore, CA 94551

Watch a Video About ARIA Technologies

We Manufacture High Quality, Extensively Tested, and User Friendly Fiber Optic Connectivity Products
We Rapidly Develop Custom Products

1. **Step 1: Investigate**
   We examine the problem and begin to draft the necessary steps to solve the issue.

2. **Step 2: Design**
   We design a tangible product that meets the customers needs.

3. **Step 3: Fabricate**
   A prototype is fabricated and shipped to the customer.

4. **Step 4: Test**
   The customer determines prototype completeness and the design is finalized.

5. **Step 5: Deploy**
   The product is manufactured and shipped to the customer.

6. **Step 6: Feedback**
   The customer is contacted for feedback and possible design changes.

We Make the World More Open andConnected

Our agile responsiveness, customer centric approach, and innovative products help bring the power of the internet of things to everyone.

Let's Connect

**Call:** (925) 447-7500

**Email:** sales@ariatech.com
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AWM Series Wallmount Enclosures feature patch and splice capability and an intelligent feature layout.

Different sizes are available to accommodate different applications based on fiber capacity and the use of LGX cassettes.

Double doors provide a wide swing radius offering maximum access to the enclosure interior and separate access for patching and splicing with an optional lock kit.

Radius guides provide enhanced fiber management and a splice tray platform provides quick and easy access to fiber splices.

Cable attachment brackets, strain relief lugs, and optional compression fittings provide cable securement.

**Features**

- The patch and splice compartments are separated and make efficient use of wall space
- The fiber pigtails are well organized and easily accessible
- Intuitive design supports simple customer cable entry, organization, splicing, and patching
- ARIA coupler, splitter, CWDM, and DWDM cassettes are supported
- Double door design reduces required wall space and separates the network and the subscriber
- Angled adapter plate mounting surface makes it easy to access the connectors
- Sizable splicing compartment provides ample room for pigtail storage and protection
### AWM 2

**Specifications**

<table>
<thead>
<tr>
<th>Dimensions (Inches)</th>
<th>9.1 x 14.1 x 3.4 (HxWxD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adapter Plate Capacity</td>
<td>2</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>24 SC or 48 LC</td>
</tr>
<tr>
<td>Cable Entry Openings</td>
<td>Patch Side: (2) 1.1” &amp; (2) 1.18”</td>
</tr>
<tr>
<td></td>
<td>Splice Side: (2) 1.1” and (2) 1.18”</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Steel</td>
</tr>
<tr>
<td>Material Finish</td>
<td>White Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>8.0</td>
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</table>

### AWM 4

**Specifications**

<table>
<thead>
<tr>
<th>Dimensions (Inches)</th>
<th>16.1 x 15.1 x 3.4 (HxWxD)</th>
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<tr>
<td>Adapter Plate Capacity</td>
<td>4</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>48 SC or 96 LC</td>
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<tr>
<td>Cable Entry Openings</td>
<td>Patch Side: (2) 1.1” and (2) 1.5”</td>
</tr>
<tr>
<td></td>
<td>Splice Side: (2) 1.1” and (2) 1.18”</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Steel</td>
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<tr>
<td>Material Finish</td>
<td>White Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>12.5</td>
</tr>
</tbody>
</table>
AWM Series
Indoor Enclosures

AWM 18

Specifications

<table>
<thead>
<tr>
<th>Dimensions (Inches)</th>
<th>16.1 x 20.1 x 8.5 (HxWxD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adapter Plate Capacity</td>
<td>18</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>216 SC or 432 LC</td>
</tr>
<tr>
<td>Cable Entry Openings</td>
<td>Patch Side: (6) 1.0” and (2) 1.5” Splice Side: (6) 1.0” and (2) 1.5”</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Steel</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Dark Gray Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>24.0</td>
</tr>
</tbody>
</table>

Additional Features
- Patch door is removable easing cassette installation
- Doors come standard with an attached padlock hasp
- Wide design provides additional room for cassettes
- Door Hinge is recessed to support connector access
- Strengthened dust resistant doors

Accessories

Grounding and Bonding Kit
P/N: GB-KIT

Door Lock Kit for One Door
P/N: C610-S

Bracket with one 12AT2 Cable Clamp Supporting 0.4” to 1.0” Diameter Cable for AWM 4 and AWM 12
P/N: AWM-12AT2-KIT

Bracket with two 12AT2 Cable Clamps Supporting 0.4” to 1.0” Diameter Cable for AWM 4 and AWM 12
P/N: AWM-12AT2-KIT-2CLAMPS

Small Compression Fitting Supports Cable O.D.: 0.230”-0.546” for AWM 12 and 18
(P/N: CF-SM)

Medium Compression Fitting Supports Cable O.D.: 0.29”-0.60” for all AWMs
P/N: CF-MD

Three Slot Flat Drop Compression Fitting with Removable Spacers for all AWMs
(P/N: CF-3S-FD)

Flat Drop Compression Fitting for all AWMs (P/N: N3/4"B-H1-(8.145))

Large Compression Fitting Supports Cable O.D.: 0.590”-0.990” for AWM 18 P/N: CF-LG

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AWM Series
Indoor Enclosures

12AT2 Cable Clamp Support For AWM 4 and AWM 12

Support For Compact LGX Splice Cassettes
AWM Series
Indoor Enclosures

Example Configurations

AWM 2 With 12F 900μm SCU Pigtails Ready For Splicing to OSP Cable

AWM 4 With 48F LCU Distribution Cable Pre-Term Patched to Dual Fiber 8CH CWDM Cassette

AWM 4 With 48F Ribbon LCU Pigtails and Regular Splice Trays

AWM 4 With 48F Ribbon LCU Pigtails and Hinged Splice Trays
# AWM Series

## Indoor Enclosures

**Part Number**

<table>
<thead>
<tr>
<th>Enclosure</th>
</tr>
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<tbody>
<tr>
<td>02 = AWM 2</td>
</tr>
<tr>
<td>04 = AWM 4</td>
</tr>
<tr>
<td>12 = AWM 12</td>
</tr>
<tr>
<td>18 = AWM 18</td>
</tr>
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</table>

**Adapter Plate Type**

<table>
<thead>
<tr>
<th>Adapter Plate Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leave Blank for No Adapter Plates</td>
</tr>
<tr>
<td>06 = 6 Port (SC/FC/ST)</td>
</tr>
<tr>
<td>08 = 8 Port (SC/FC/ST)</td>
</tr>
<tr>
<td>12 = 12 Port (SC/LC/FC/ST)</td>
</tr>
<tr>
<td>24 = 24 Port (LC)</td>
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</table>

**Adapter Plate Quantity**

<table>
<thead>
<tr>
<th>Adapter Plate Quantity</th>
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<tr>
<td>Leave Blank for No Adapter Plates</td>
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<tr>
<td>XX = XX Plates</td>
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**Adapter Type**

<table>
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<th>Adapter Type</th>
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<tbody>
<tr>
<td>Leave Blank for No Adapter Plates</td>
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<tr>
<td>SC = SC</td>
</tr>
<tr>
<td>LC = LC</td>
</tr>
<tr>
<td>FC = FC</td>
</tr>
<tr>
<td>ST = ST</td>
</tr>
</tbody>
</table>

**Polish Type**

<table>
<thead>
<tr>
<th>Polish Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>U = Singlemode UPC</td>
</tr>
<tr>
<td>A = Singlemode APC*</td>
</tr>
<tr>
<td>M = Multimode PC</td>
</tr>
</tbody>
</table>

*Unavailable for ST

**Pigtail**

<table>
<thead>
<tr>
<th>Pigtail</th>
</tr>
</thead>
<tbody>
<tr>
<td>N = No Pigtail or Pre-Term</td>
</tr>
<tr>
<td>M = 900 μm in Mesh</td>
</tr>
<tr>
<td>D = Distribution Style (MIC)</td>
</tr>
<tr>
<td>R = Ribbon in Mesh</td>
</tr>
</tbody>
</table>

Note: 3 meter pigtail length is standard

**Fiber Type**

<table>
<thead>
<tr>
<th>Fiber Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leave Blank for No Adapter Plates</td>
</tr>
<tr>
<td>S = SM 9/125μm G.652.D</td>
</tr>
<tr>
<td>B = SM 9/125μm Bend Insensitive G.657.A1</td>
</tr>
<tr>
<td>1 = MM 62.5/125μm OM1</td>
</tr>
<tr>
<td>2 = MM 50/125μm OM2</td>
</tr>
<tr>
<td>3 = MM 50/125μm OM3</td>
</tr>
<tr>
<td>4 = MM 50/125μm OM4</td>
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</table>

**Splice Trays**

<table>
<thead>
<tr>
<th>Splice Trays</th>
</tr>
</thead>
<tbody>
<tr>
<td>N = None</td>
</tr>
<tr>
<td>Y = Regular*</td>
</tr>
<tr>
<td>H = Hinged**</td>
</tr>
</tbody>
</table>

*AWM 2 enclosures come standard with 4”x7” splice trays and all other AWM models come standard with 4”x8” splice trays in 24 fiber single fiber fusion or 6 position ribbon fiber mass fusion configurations.**24-Fiber (5”x8”) Single Fiber or 72-Fiber Ribbon Fiber Splice Tray

**Stub Cable Construction**

<table>
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<th>Stub Cable Construction</th>
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<tbody>
<tr>
<td>Leave Blank for No Stub</td>
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<tr>
<td>D = Distribution (I or X)</td>
</tr>
<tr>
<td>B = Breakout (X)</td>
</tr>
<tr>
<td>M = Micro Round (I, X, or O)</td>
</tr>
<tr>
<td>L = Loose Tube (X or O)</td>
</tr>
<tr>
<td>R = Ribbon (I, X, or O)</td>
</tr>
<tr>
<td>F = Flat Drop (Up to 24F) (O)</td>
</tr>
</tbody>
</table>

(I) = Indoor Only |
(X) = Indoor/Outdoor Only |
(O) = Outdoor Only

**Stub Jacket Type**

<table>
<thead>
<tr>
<th>Stub Jacket Type</th>
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<tbody>
<tr>
<td>Leave Blank for No Stub</td>
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<tr>
<td>Choose 1 Option for Each Feature:</td>
</tr>
<tr>
<td>I = Indoor or X = I/O or O = Outdoor</td>
</tr>
<tr>
<td>R = OFNR or P = OFNP or L = LSZH*</td>
</tr>
<tr>
<td>N = Non-Armored or A = Armored</td>
</tr>
</tbody>
</table>

*Leave Blank for Outdoor Cable

**Stub Length**

<table>
<thead>
<tr>
<th>Stub Length</th>
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<tbody>
<tr>
<td>Leave Blank for No Stub</td>
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<tr>
<td>Add -PE for a Pulling Eye</td>
</tr>
<tr>
<td>XXXF = XXX Feet</td>
</tr>
<tr>
<td>XXXM = XXX Meters</td>
</tr>
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</table>

*AWM 2 enclosures come standard with 4”x7” splice trays and all other AWM models come standard with 4”x8” splice trays in 24 fiber single fiber fusion or 6 position ribbon fiber mass fusion configurations.**24-Fiber (5”x8”) Single Fiber or 72-Fiber Ribbon Fiber Splice Tray

---

**AWM Series**

*Fiber Optic Connectivity*

ARIA TECHNOLOGIES, INC.

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www.ariatech.com
Tri-Panel Series Wallmount Enclosures feature two separate compartments for patching and splicing.

The compact and intuitive design requires less space and provides easy access to the connectors.

Tri- Panels are ideal for use when a compact, wall mountable, patch, splice, and storage enclosure is required such as drops to commercial customers, cell sites, hospitals, or anywhere separate compartments are needed to separate/demarc patch and splice areas.

**Features**

- The patch and splice compartments are separated and make efficient use of wall space
- The fiber pigtails are well organized and easily accessible
- Intuitive design supports simple customer cable entry, organization, splicing, and patching
- ARIA coupler, splitter, CWDM, and DWDM cassettes are supported
- Panel cutout and L-shaped door design enhances connector access
- Angled adapter plate mounting surface makes it easy to access the connectors
- Sizable splicing compartment provides ample room for pigtail storage and protection

**Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong> (Inches)</td>
<td>7.0 x 12.0 x 4.1 (HxWxD)</td>
</tr>
<tr>
<td><strong>Adapter Plate Capacity</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>Fiber Capacity</strong></td>
<td>24 SC or 48 LC (Ribbon)</td>
</tr>
<tr>
<td><strong>Cable Entry Openings</strong></td>
<td>Patch Side: (2) 1.5”</td>
</tr>
<tr>
<td></td>
<td>Splice Side: (2) 1.18”</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>1.5mm Thick Aluminum</td>
</tr>
<tr>
<td><strong>Material Finish</strong></td>
<td>White or Black Powder Coat</td>
</tr>
<tr>
<td><strong>Weight (Empty) (lbs)</strong></td>
<td>3.0</td>
</tr>
</tbody>
</table>

Tri-Panel Series Indoor Enclosures

Tri-Panel Series are available as a “pre-term panel” with a connectorized stub.

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www.ariatech.com
Tri-Panel Series
Indoor Enclosures

Tri-Panel 4X

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>7.0 x 12.0 x 7.6 (HxWxD)</td>
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<tr>
<td>Adapter Plate Capacity</td>
<td>4</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>48 SC or 96 LC (Ribbon)</td>
</tr>
<tr>
<td>Cable Entry Openings</td>
<td>Patch Side: (2) 1.5”</td>
</tr>
<tr>
<td></td>
<td>Splice Side: (2) 1.18”</td>
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<tr>
<td>Material</td>
<td>1.5mm Thick Aluminum</td>
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<td>White or Black Powder Coat</td>
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<td>Weight (Empty) (lbs)</td>
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Tri-Panel 6X

Specifications

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<tr>
<td>Dimensions (Inches)</td>
<td>12.0 x 12.0 x 6.5 (HxWxD)</td>
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<tr>
<td>Adapter Plate Capacity</td>
<td>6</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>72 SC or 144 LC (Ribbon)</td>
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<tr>
<td>Cable Entry Openings</td>
<td>Patch Side: (2) 1.5”</td>
</tr>
<tr>
<td></td>
<td>Splice Side: (2) 1.18”</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Aluminum</td>
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<tr>
<td>Material Finish</td>
<td>White or Black Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>4.5</td>
</tr>
</tbody>
</table>
Tri-Panel Series
Indoor Enclosures

Black Color Available

TRI-2X

TRI-4X

TRI-6X

Accessories

Medium Compression Fitting for Splice Compartment Supports Cable O.D.: 0.29”-0.60” (P/N: CF-MD)

Large Compression Fitting for Patch Compartment Supports Cable O.D.: 0.59”-0.99” (P/N: CF-LG)

Three Slot Flat Drop Compression Fitting with Removable Spacers for Splice Compartment
P/N: CF-3S-FD

Flat Drop Compression Fitting for Splice Compartment
P/N: N3/4”B-H1-(8.1*4.5)

Door Lock Kit for Splice Compartment
P/N: C-610-L

Door Lock Kit for Patch Compartment
P/N: C-610-N

Midspan Access Grommet
P/N: MIDSPAN-G

Microduct Manifold Supports 10 mm OD Microduct for Patch Compartment (P/N: MDM-12X-10)

Microduct Manifold Supports 8.5 mm OD Microduct for Patch Compartment (P/N: MDM-12X-8.5)
### Tri-Panel Series

**Indoor Enclosures**

#### Part Number

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<thead>
<tr>
<th>TRI-</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
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<tbody>
<tr>
<td><strong>Enclosure</strong></td>
<td>2X = Tri-Panel 2X</td>
<td>4X = Tri-Panel 4X</td>
<td>6X = Tri-Panel 6X</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Adapter Plate Type</strong></td>
<td>06 = 6 Port (SC/FC/ST)</td>
<td>08 = 8 Port (SC/FC/ST)</td>
<td>12 = 12 Port (SC/LC/FC/ST)</td>
<td>24 = 24 Port (LC)</td>
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<td><strong>Adapter Plate Quantity</strong></td>
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<td></td>
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</tr>
<tr>
<td><strong>Adapter Type</strong></td>
<td>SC = SC</td>
<td>LC = LC</td>
<td>FC = FC</td>
<td>ST = ST</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Polish Type</strong></td>
<td>U = Singlemode UPC</td>
<td>A = Singlemode APC*</td>
<td>M = Multimode PC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Pigtail

- N = No Pigtail or Pre-Term
- M = 900 μm in Mesh
- D = Distribution Style (MIC)
- R = Ribbon in Mesh

Note: 3 meter pigtail length is standard

#### Fiber Type

- S = SM 9/125μm G.652.D
- B = SM 9/125μm Bend Insensitive G.657.A1
  - 1 = MM 62.5/125μm OM1
  - 2 = MM 50/125μm OM2
  - 3 = MM 50/125μm OM3
  - 4 = MM 50/125μm OM4

#### Splice Trays

- N = None
- Y = Yes*

*These enclosures come standard with 4”x8” splice trays in 24 fiber single fiber fusion or 6 position ribbon fiber mass fusion configurations.

#### Color

- B = Black
- W = White

#### Stub Cable Construction

Leave Blank for No Stub
- D = Distribution (I or X)
- B = Breakout (X)
- M = Micro Round (I, X, or O)
- L = Loose Tube (X or O)
- R = Ribbon (I, X, or O)
- F = Flat Drop (Up to 24F) (O)

(I) = Indoor Only
(X) = Indoor/Outdoor Only
(O) = Outdoor Only

#### Stub Jacket Type

Leave Blank for No Stub
Choose 1 Option for Each Feature:
- I = Indoor or X = I/O or O = Outdoor
- R = OFNR or P = OFNP or L = LSZH*
- N = Non-Armored or A = Armored

*Leave Blank for Outdoor Cable

#### Stub Length

Leave Blank for No Stub
Add -PE for a Pulling Eye
- XXXF = XXX Feet
- XXXM = XXX Meters
The CVWM 4X is a compact wall mount fiber optic distribution enclosure designed to support patching and/or splicing.

The unit has the capacity to accept 4 LGX-type adapter plates allowing for the termination of a variety of connector types and fiber counts of up to 48 SC or 96 LC.

The unit has a key-lockable drop-down-door splice compartment which serves as a work shelf for splicing.

The patch side door comes equipped with a padlock hasp for additional security.

### Overview

#### Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>CVWM 4X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>11.5 x 14.2 x 5.5 (HxWxD)</td>
</tr>
<tr>
<td>Adapter Plate Capacity</td>
<td>4</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>48 SC or 96 LC</td>
</tr>
<tr>
<td>Cable Entry Openings</td>
<td>Patch Side: (2) 1.25”</td>
</tr>
<tr>
<td></td>
<td>Splice Side: (4) 1.75”</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Steel</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Black Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>10.0</td>
</tr>
</tbody>
</table>

### Cable Entry & Grounding
Indoor Enclosures

Accessories

Grounding and Bonding Kit
P/N: GB-KIT

Medium Compression Fitting for Patch Compartment
Supports Cable O.D.: 0.29"-0.60"
P/N: CF-MD

Three Slot Flat Drop Compression Fitting with Removable Spacers for Patch Compartment
P/N: CF-3S-FD

Flat Drop Compression Fitting for Patch Compartment
P/N: N3/4"B-H1-(8.1*4.5)
P/N: CF-LG

Large Compression Fitting for Splice Compartment
Supports Cable O.D.: 0.59"-0.99"

Part Number

CVWM-1-2-3-4-5-6-7-8-9

1 Adapter Plate Type
06 = 6 Port (SC/FC/ST)  
08 = 8 Port (SC/FC/ST)  
12 = 12 Port (SC/LC/FC/ST)  
24 = 24 Port (LC)

2 Adapter Plate Quantity
X = X Plates

3 Adapter Type
SC = SC  
LC = LC  
FC = FC  
ST = ST

4 Pigtail
N = No Pigtail or Pre-Term  
M = 900 μm in Mesh  
D = Distribution Style (MIC)  
R = Ribbon in Mesh

Note: 3 meter pigtail length is standard

5 Fiber Type
S = SM 9/125μm G.652.D  
B = SM 9/125μm Bend Insensitive G.657.A1  
1 = MM 62.5/125μm OM1  
2 = MM 50/125μm OM2  
3 = MM 50/125μm OM3  
4 = MM 50/125μm OM4

6 Splice Trays
N = None  
Y = Yes*

*This enclosure comes standard with 4"x8" splice trays in 24 fiber single fiber fusion or 6 position ribbon fiber mass fusion configurations.

7 Stub Cable Construction
Leaves Blank for No Stub  
D = Distribution (I or X)  
B = Breakout (X)  
M = Micro Round (I, X, or O)  
L = Loose Tube (X or O)  
R = Ribbon (I, X, or O)  
F = Flat Drop (Up to 24F) (O)

(I) = Indoor Only  
(X) = Indoor/Outdoor Only  
(O) = Outdoor Only

8 Stub Jacket Type
Leaves Blank for No Stub  
Choose 1 Option for Each Feature:  
I = Indoor or X = I/O or O = Outdoor  
R = OFNR or P = OFNP or L = LSZH*  
N = Non-Armored or A = Armored  
*Leave Blank for Outdoor Cable

9 Stub Length
Leaves Blank for No Stub  
Add -PE for a Pulling Eye  
XXXF = XXX Feet  
XXXM = XXX Meters

ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity™

(925) 447-7500  
sales@ariatech.com  
www.ariatech.com
The Mini Wallmount series fiber patch & splice enclosure can patch & splice up to 24 fibers LC and 12 fibers SC in Singlemode or Multimode configurations.

These compact sized enclosures can be supplied fully loaded with adapter panels, pigtails, a splice sleeve holder, and a pre-terminated stub cable or as a plug and play module with an MPO adapter or pigtails.

100% tested for insertion and return loss.

Available in CCH or LGX size formats.

The CCH format supports MPO adapters on the rear of the enclosure for plug and play support.

**Features**

- Simply loosen the thumbscrews (CCH) or flip the latches (LGX) and open the door to gain access to the internal components
- Enclosures can be pre-terminated for patching only or supplied with a splice chip for patching and splicing capability
- Enclosures are wall mountable and are also rack mountable with optional rackmount brackets
- DIN rail and magnetic mounting options are available

**Component Layout**

- Zip Tie
- Cable to enclosure
- Adapter Plate
- Fiber Connectors
- Cable Entry Grommet
- Cable Fibers
- Patch Only or Pre-Term

- Adapter
- Splice Chip
- Zip Tie Cable to enclosure
- Fiber Pigtails
- Patch & Splice

**Mini Wallmount Series**

**Indoor Enclosures**

(925) 447-7500
sales@ariatech.com
www.ariatech.com
Mini Wallmount Series
Indoor Enclosures

LGX Format

Specifications

<table>
<thead>
<tr>
<th>Dimension (Inches)</th>
<th>5.50 x 6.25 x 1.25 (HxWxD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiber Capacity</td>
<td>12 SC or 24 LC</td>
</tr>
<tr>
<td>Cable Entry Openings</td>
<td>(2) 0.63” x 0.875”</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Steel</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Black Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>1.0</td>
</tr>
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</table>

CCH Format

Specifications

<table>
<thead>
<tr>
<th>Dimension (Inches)</th>
<th>6.25 x 5.32 x 1.45 (HxWxD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiber Capacity</td>
<td>12 SC or 24 LC</td>
</tr>
<tr>
<td>Cable Entry Openings</td>
<td>(2) 0.84”</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Aluminum</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Black Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Accessories

- CCH Mini Wallmount Shroud
  P/N: SHROUD-MWM-BLK
- CCH Mini Wallmount with DIN Rail Mounting Clip (see part number on the next page)
- LGX Mini Wallmount with Neodymium Magnets (see part number on the next page)
- Flat Drop Compression Fitting for CCH Format
  P/N: N3/4*B-H1-(8.1*4.5)
Mini Wallmount Series
Indoor Enclosures

Accessories (Continued)

Extra Small Compression Fitting Supports Cable O.D.: 0.230"-0.395" for LGX Format
P/N: CF-XS

Extra Small Compression Fitting for Flat Drop Cable for LGX Format
P/N: CF-XS-FD

Small Compression Fitting Supports Cable O.D.: 0.230"-0.546" for CCH Format
P/N: CF-SM

Medium Compression Fitting Supports Cable O.D.: 0.29"-0.60" for CCH Format
P/N: CF-MD

Three Slot Flat Drop Compression Fitting with Removable Spacers for CCH Format
P/N: CF-3S-FD

Part Number

MWM - - - - - - - -

1 Format
L = LGX
C = CCH

2 Adapter Plate Type
06 = 6 Port (SC/FC/ST)
08 = 8 Port (SC/FC/ST)
12 = 12 Port (SC/LC/FC/ST)
24 = 24 Port (LC)

3 Adapter Type
SC = SC
LC = LC
FC = FC
ST = ST

3 Polish Type
U = Singlemode UPC
A = Singlemode APC*
M = Multimode PC

*Unavailable for ST

4 Pigtail
N = No Pigtail or Pre-Term
9 = 900 μm
M = 900 μm in Mesh
R = Ribbon in Mesh
T = MTP Adapter (CCH Only)

Note: 3 meter pigtail length is standard

5 Fiber Type
S = SM 9/125μm G.652.D
B = SM 9/125μm Bend Insensitive G.657.A1
1 = MM 62.5/125μm OM1
2 = MM 50/125μm OM2
3 = MM 50/125μm OM3
4 = MM 50/125μm OM4

6 Mounting Options
000 = Standard Mounting
MAG = Neodymium Magnets
DIN = DIN Rail Mounting Clip Installed (CCH Only)

7 Stub Cable Construction
Leave Blank for No Stub
D = Distribution (I or X)
B = Breakout (X)
M = Micro Round (I, X, or O)
L = Loose Tube (X or O)
R = Ribbon (I, X, or O)
F = Flat Drop (Up to 24F) (O)
(I) = Indoor Only
(X) = Indoor/Outdoor Only
(O) = Outdoor Only

8 Stub Jacket Type
Leave Blank for No Stub
Choose 1 Option for Each Feature:
I = Indoor or X = I/O or O = Outdoor
R = OFNR or P = OFNP or L = LSZH*
N = Non-Armored or A = Armored

*Leave Blank for Outdoor Cable

9 Stub Length
Leave Blank for No Stub
Add -PE for a Pulling Eye
XXXF = XXX Feet
XXXM = XXX Meters
Access Terminal Box (ATB)
Indoor Enclosures

The Access Terminal Box (ATB) is a small, 2-fiber capacity, patch & splice wallmount enclosure.

It is designed for indoor use next to an optical network terminal (ONT) in fiber to the home (FTTH) applications.

Typically, an indoor drop cable from an Exterior Terminal Box (ETB) mounted on the outside of a subscriber’s residence is brought into the ATB and spliced to a pigtail. A patch cord connects this pigtail to the ONT.

Versatile and economical design provides an easy to use and low cost enclosure.

Wallmounting hardware and splice sleeves are included.

Features
- Compact and space efficient design
- Hinged removable splice tray
- 2-fiber capacity
- Tool-less lid with optional screw does not require external clearance for removal
- Dual covered and slotted cable entry openings

Specifications

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Adapter Type</th>
<th>Pigtail Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATB-</td>
<td>Leave blank for no adapters</td>
<td>Leave blank for no pigtail</td>
</tr>
<tr>
<td>1</td>
<td>1 SCA = 1 Simplex SC/APC Adapter</td>
<td>1PT = One 900 μm Pigtail</td>
</tr>
<tr>
<td>2</td>
<td>2 SCA = 2 Simplex SC/APC Adapters</td>
<td>2PT = Two 900 μm Pigtails</td>
</tr>
<tr>
<td></td>
<td>1LCA = 1 Duplex LC/APC Adapter</td>
<td>Note: 1 meter pigtail length is standard</td>
</tr>
</tbody>
</table>

views

Dimensions (Inches) 4.0 x 3.1 x 1.0 (HxWxD)
Fiber Capacity 2
Pigtail Fiber Type Singlemode G.657.A1
Cable Entry Openings (2) 0.3” x 0.6”
Material White ABS Plastic
Weight (Empty) (lbs) 0.5
The MDX Indoor Enclosure is a user friendly easily accessible panel designed for optical tap based MDU applications.

Two different adapter plate partition configurations are available. The half width LGX configuration is designed for use with half width LGX adapter plates and cassettes and features removable radius guides and optional fiber management rings for splice side cable subunit slack. The LGX configuration is designed for use with LGX adapter plates and cassettes and has fiber management rings for splice side cable subunit slack.

The generously sized patch compartment has cable management rings on the back face to organize drop cable slack.

**Features**

- Removable double hinged doors enhance access
- Hinged adapter plate partition supports angled or straight orientations for enhanced connector access
- Hinged removable splice trays sit vertically or at a 45 degree angle for enhanced fiber accessibility
- Both doors feature external handles and an internal slot for a removable port identification chart
- Optional 48-position microduct coupler plate and 48-position cable gland plate attaches to the top or bottom side of the patch compartment
- Patch side features 2-position drop cable or 1" or 3/4" Riser-Gard® innerduct plate and tie down bracket attached to the top and bottom
- Splice side features top and bottom entry grommets for cable securement with cable clamps or Riser-Gard® innerduct securement with hose clamps
- Doors are secured separately with a hex bolt and are opened with a 7/16" telco can wrench

**Specifications**

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>16.1&quot; x 20.1&quot; x 6.1&quot; (HxWxD)</td>
</tr>
<tr>
<td>Cassette Capacity</td>
<td>Half Width LGX: 6X or LGX: 4X</td>
</tr>
<tr>
<td>Patch &amp; Splice Fiber Capacity</td>
<td>48-Fiber Stranded* or 96-Fiber Ribbon</td>
</tr>
<tr>
<td>Splice Side Cable Entry</td>
<td>48-Fiber With LGX Configuration and 24-Fiber LC Compact LGX Splice Cassettes</td>
</tr>
<tr>
<td>Patch Side Cable Entry</td>
<td>(4) 0.4-1.0&quot; O.D. Cables or (4) 1&quot; or 3/4&quot; Riser-Gard® Innerducts</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick White Powdercoated Aluminum</td>
</tr>
<tr>
<td>Weight (Pounds)</td>
<td>12.0</td>
</tr>
</tbody>
</table>

---

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**Specifications**

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>16.1&quot; x 20.1&quot; x 6.1&quot; (HxWxD)</td>
</tr>
<tr>
<td>Cassette Capacity</td>
<td>Half Width LGX: 6X or LGX: 4X</td>
</tr>
<tr>
<td>Patch &amp; Splice Fiber Capacity</td>
<td>48-Fiber Stranded* or 96-Fiber Ribbon</td>
</tr>
<tr>
<td>Splice Side Cable Entry</td>
<td>48-Fiber With LGX Configuration and 24-Fiber LC Compact LGX Splice Cassettes</td>
</tr>
<tr>
<td>Patch Side Cable Entry</td>
<td>(4) 0.4-1.0&quot; O.D. Cables or (4) 1&quot; or 3/4&quot; Riser-Gard® Innerducts</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick White Powdercoated Aluminum</td>
</tr>
<tr>
<td>Weight (Pounds)</td>
<td>12.0</td>
</tr>
</tbody>
</table>
Multi-Dwelling Demarc (MDX)

Indoor Enclosures

Patch Side Cable Entry

Support for Drop Cables and Innerduct

Splice Side Cable Entry

Support for Multi-Fiber Cables and Innerduct

Double Hinged Removable Doors

Hinged Adapter Plate Partition

Angled

Straight
Multi-Dwelling Demarc (MDX)

Indoor Enclosures

Hinged Splice Trays

Optional Drop Cable Cable Gland Entry

Optional Microduct Entry

Half Width LGX Tap Cassette Available

Half Width LGX Adapter Plates Available

Half Width LGX 8-Port SC/APC Adapter Plate
P/N: HWLGX-8P-SCA-AP
Multi-Dwelling Demarc (MDX)
Indoor Enclosures

Accessories

Plate with 48 12.7/10mm Microduct Couplers
P/N: MDX-48-12.7/10-MDEP

Plate with 48 2.0-5.0mm Cable Glands
P/N: MDX-48-M12CGEP

Plate with 48 Flat Drop Cable Glands
P/N: MDX-48-M12FDCGEP

Microduct Tie-Down Wall Bracket
P/N: MTDDBW

Part Number

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Adapter Plate Type</th>
<th>Polish Type</th>
<th>Splice Trays</th>
<th>Accessory Plates</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 HWLGX = Half Width LGX</td>
<td>06 = 6 Port (SC/FC/ST)</td>
<td>U = Singlemode UPC</td>
<td>0 = 0 Trays</td>
<td>Leave Blank for No Accessory Plates</td>
</tr>
<tr>
<td>LGX = LGX</td>
<td>08 = 8 Port (SC/FC/ST)</td>
<td>A = Singlemode APC*</td>
<td>1 = 1 Tray</td>
<td>Add -T or -B for pre-installation in the top or bottom of the chassis</td>
</tr>
<tr>
<td></td>
<td>12 = 12 Port (SC/LC/FC/ST)</td>
<td>M = Multimode PC</td>
<td>2 = 2 Trays</td>
<td>12710MD48 = Plate with 48</td>
</tr>
<tr>
<td></td>
<td>16 = 16 Port (LC)</td>
<td>*Unavailable for ST</td>
<td></td>
<td>12.7/10mm Microduct Couplers</td>
</tr>
<tr>
<td></td>
<td>24 = 24 Port (LC)</td>
<td></td>
<td></td>
<td>CG2548 = Plate with 48 2.0-5.0mm Cable Glands</td>
</tr>
</tbody>
</table>

Note: Only 8 port SC and 16 port LC types are available in half width LGX configurations

<table>
<thead>
<tr>
<th>Pigtail</th>
<th>Fiber Type</th>
<th>Note: 3 meter pigtail length is standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>N = No Pigtail or Pre-Term</td>
<td>S = SM 9/125μm G.652.D</td>
<td></td>
</tr>
<tr>
<td>M = 900 μm in Mesh</td>
<td>B = SM 9/125μm Bend Insensitive G.657.A1</td>
<td></td>
</tr>
<tr>
<td>D = Distribution Style (MIC)</td>
<td>1 = MM 62.5/125μm OM1</td>
<td></td>
</tr>
<tr>
<td>R = Ribbon in Mesh</td>
<td>2 = MM 50/125μm OM2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 = MM 50/125μm OM3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4 = MM 50/125μm OM4</td>
<td></td>
</tr>
</tbody>
</table>

Note: Only 8 port SC and 16 port LC types are available in half width LGX configurations

Accessory Plates

Leave Blank for No Accessory Plates
Add -T or -B for pre-installation in the top or bottom of the chassis
12710MD48 = Plate with 48 12.7/10mm Microduct Couplers
CG2548 = Plate with 48 2.0-5.0mm Cable Glands
CGFD48 = Plate with 48 Flat Drop Cable Glands
Compact Cassette Enclosure (CCE)

The Compact Cassette Enclosure (CCE) is a small plastic enclosure with support for 2 LGX cassettes or custom high density cassettes.

Optional mounting system available for Aluminum J Box enclosures.

The enclosure supports cable entry via three 1.1” grommeted openings.

The IP67 capable enclosure is made of UL94HB rated ABS.

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (HxWxD)</td>
<td>10.0” x 7.1” x 3.0”</td>
</tr>
<tr>
<td>Breakout Fiber Capacity</td>
<td>72</td>
</tr>
<tr>
<td>LGX Cassette Capacity</td>
<td>2</td>
</tr>
<tr>
<td>1.1” Cable Entry Holes</td>
<td>3</td>
</tr>
<tr>
<td>Material</td>
<td>UL94HB Rated ABS</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Light Gray</td>
</tr>
<tr>
<td>Weight (lbs)</td>
<td>7.5</td>
</tr>
</tbody>
</table>

Features

- Gasketed door accessible with captive quarter turn fasteners that will not fall out when released
- 36-fiber and 72-fiber breakout cassettes available with port silkscreen identification
- Flame resistant ABS material
- Support for compression fittings and plugs
- Tie down points provide cable management

IP67 Capable*

Solid Particle Protection
IP First Digit Rating Level: 6
Totally protected against dust ingress (dust-tight).

Liquid Ingress Protection
IP Second Digit Rating Level: 7
Protected from water ingress while immersed in shallow water.

*Requires the use of compression fittings and/or plugs instead of grommets
Compact Cassette Enclosure (CCE)

Indoor Enclosures

Front View

Optional J-Box Mounting Support

PTFE sheet stock attaches to an external mounting plate which then mounts to the back of the plastic enclosure.
Compact Cassette Enclosure (CCE)
Indoor Enclosures

Optional DIN Rail Mounting Support

Support for 2U LGX Cassettes

DIN Rail Clips Snap Onto Two Sections of DIN Rail

36F LC/UPC to MPO Breakout Cassette Shown

Accessories

Medium Compression Fitting Supports Cable O.D.: 0.29"-0.60"
P/N: CF-MD

Three Slot Flat Drop Compression Fitting with Removable Spacers
P/N: CF-3S-FD

Flat Drop Compression Fitting
P/N: N3/4"B-H1-(8.1*4.5)

1.0" Threaded Plug and Locknut
P/N: SPM2511B

Part Number

CCE- - -

1

Configuration
EM = Empty with 2U LGX Cassette Capacity
36 = 36-Fiber Breakout Cassette
72 = 72-Fiber Breakout Cassette

2

Adapter Type
Leave Blank for Empty Configuration
LCU = LC/UPC
LCA = LC/APC

3

Cable Entry & Mounting
Leave Blank for Standard Grommets and no J-Box Mounting Hardware
X PLG = X Plugs
X MCF = X Medium Compression Fittings
X 3CF = X 3 Slot Flat Drop Compression Fittings
X FCF = X Flat Drop Compression Fittings
JBX = J-Box Mounting Hardware Included
DIN = DIN Rail Mounting Hardware Included

ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity™
(925) 447-7500
sales@ariatech.com
www.ariatech.com
WM Deployable Patch Panel (DPP)

Indoor Enclosures

The Wallmount (WM) Deployable Patch Panel (DPP) holds a preterminated cable assembly on an internal reel.

The cable is pulled off of the internal spinning reel and the panel holds the remaining slack.

This allows for one panel configuration to serve multiple deployments without the need for slack storage.

A breakout cassette comes preinstalled on single reel configurations and does not interfere with cable deployment.

Double reel or single reel configurations are available depending on the length needed.

The pulled connector is protected with a pulling eye.

Keyholes on the mounting brackets ease installation.

Features

• Internal spinning reel stores cable slack and allows one product to serve different deployment scenarios

• Supports up to 1,000 feet of 12 fiber cable internally with capacity for additional cable on an external reel

• A thumbscrew locks the reel rotation once the desired length of cable has been deployed

• 12-fiber SC, 12-Fiber LC, or 24-fiber LC configurations available

• Port labeling beside bulkheads for quick identification

• Management rings organize patch cord slack

Cable Entry

The bottom of the enclosure feature grommeted holes. The (2) 1.89” holes support raintight plugs or 1.5” EMT compression connectors.

The smaller 1.26” holes supports raintight plugs or compression fittings.

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>15.7” x 11.8” x 7.1” (HxWxD)</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>12 (SC) or 24 (LC)</td>
</tr>
<tr>
<td>12-Fiber Length Capacity (Feet)</td>
<td>2,000 (Double Reel) or 1,000 (Single Reel)</td>
</tr>
<tr>
<td>24-Fiber Length Capacity (Feet)</td>
<td>1,000 (Double Reel) or 500 (Single Reel)</td>
</tr>
<tr>
<td>Cable Type</td>
<td>3mm OFNP Indoor or 3mm OFNR Indoor/Outdoor Armored</td>
</tr>
<tr>
<td>Cable Entry Holes</td>
<td>(2) 1.89” &amp; (3) 1.26”</td>
</tr>
<tr>
<td>Material</td>
<td>Light Gray UL Rated and UV Resistant Polycarbonate</td>
</tr>
<tr>
<td>Weight (Pounds)</td>
<td>8 (Without Cable)</td>
</tr>
</tbody>
</table>

IP67 Capable*

Solid Particle Protection
IP First Digit Rating Level: 6
Totally protected against dust ingress (dust-tight).

Liquid Ingress Protection
IP Second Digit Rating Level: 7
Protected from water ingress while immersed in shallow water.

*Requires conduit use and plugs instead of grommets
WM Deployable Patch Panel (DPP)

Double Reel Support

Mount the enclosure
Install the double reel assembly and secure it in place with an additional spindle.
Deploy the cable as needed.
Remove the additional reel and spindle. Lock the reel. Attach the cassette bracket and breakout cassette.

Reel Lock

The thumbscrew is not attached to the reel allowing it to spin freely.
The thumbscrew is attached to the reel, locking it in place.

Pairs With ARC Panels

ARC 1RU: Accepts 4 Breakout Cassettes
ARC 2RU: Accepts 8 Breakout Cassettes

Cable Options

3mm Indoor OFNP 12-Fiber
3x6mm Indoor OFNP 24-Fiber Zipcord
3mm Indoor/Outdoor OFNR 12-Fiber Armored
WM Deployable Patch Panel (DPP)

Indoor Enclosures

Breakout Cassette

Once the cable is deployed, the inside leg or panel end MPO connector is mated to the MPO adapter on the back of the breakout cassette. The ports feature generous spacing for easy access and are labeled for quick identification.

FTTMDU Application

DAS Application

Accessories

ARC Cassette Wallmount Bracket
P/N: ARC-CAS-WM-BRKT

Raintight Plug for 1.89” Hole
P/N: SPP3614B

Raintight 1.5” EMT Conduit Compression Connector
P/N: 14974

Raintight Plug for 1.26” Hole
P/N: SPM3211B

Pole Mount Bracket Kit
P/N: RTB-PMB-KIT

1RU 4X ARC Cassette Rackmount Bracket
P/N: ARC-CAS-RM-BRKT

ARIA
TECHNOLOGIES, INC.
Fiber Optic Connectivity™

(925) 447-7500
sales@ariatech.com
www.ariatech.com
## WM Deployable Patch Panel (DPP)

### Part Number

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Breakout Cassette Connector Type</th>
<th>MPO Type at Far End</th>
<th>Fiber Count</th>
<th>Connector Type at Far End</th>
<th>Breakout Length at Far End</th>
<th>Cable Type</th>
<th>Cable Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leave Blank for Enclosure With Cassette and Cable</td>
<td>Leave Blank for No Cassette Configuration</td>
<td>Leave Blank for Non-MPO Connector or No Cable Configuration</td>
<td>Leave Blank for No Cable or No Cassette Configuration</td>
<td>Leave Blank for No Cable Configuration</td>
<td>Leave Blank for MPO Connector or No Cable Configuration</td>
<td>Leave Blank for No Cable Configuration</td>
<td>Leave Blank for No Cable Configuration</td>
</tr>
<tr>
<td>EC = Enclosure with Cable (No Cassette)</td>
<td>SC = SC</td>
<td>Choose 1 Option for Each Feature: 1 = 12 or 2 = 24 Fiber Connector</td>
<td>12 = 12F</td>
<td>SC = SC</td>
<td>XXXXF = XXXX Feet</td>
<td>X = Indoor/Outdoor OFNR Armored*</td>
<td></td>
</tr>
<tr>
<td>NC = Enclosure with Cassette (No Cable)</td>
<td>SCA = SC/APC</td>
<td>F = Female or M = Male Guide Pins</td>
<td>24 = 24F (LC Only)</td>
<td>LC = LC</td>
<td>XXXXM = XXXX Meters</td>
<td>R = Indoor OFNP**</td>
<td></td>
</tr>
<tr>
<td>EO = Enclosure Only (No Cassette)</td>
<td>LCU = LC/UPC</td>
<td>Note: Select 12-fiber female for use with breakout cassette</td>
<td>Leave Blank for No Cassette Configuration</td>
<td>FC = FC</td>
<td>Note: Pulling eye included on far end.</td>
<td>*Utilizes two cables for 24-fiber configurations</td>
<td></td>
</tr>
<tr>
<td>CO = Cable Only (No Enclosure and No Cassette)</td>
<td>LCA = LC/APC</td>
<td>Protective cap included for MPO connectors. Lengths over 1,000ft are provided on a double reel.</td>
<td>Leave Blank for No Cable Configuration</td>
<td>ST = ST</td>
<td>Note: Select MPO APC for use with breakout cassette</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Notes

- A singlemode bend insensitive G.657.A1 fiber only
- Pulling eye included on far end.
- Protective cap included for MPO connectors. Lengths over 1,000ft are provided on a double reel.

### Contact Information

- Phone: (925) 447-7500
- Email: sales@ariatech.com
- Website: www.ariatech.com
Exterior Terminal Box (ETB)

Outdoor Enclosures

The Exterior Terminal Box is a small, 2-fiber capacity, patch & splice outdoor rated wallmount enclosure.

It is designed for outdoor use on the exterior of a residence in fiber to the home (FTTH) applications.

Typically, a flat drop drop cable from a hardened terminal mounted on a pole or inside of a pedestal outside of a subscriber’s residence is brought into the ETB and spliced to a pigtail. A patch cord connects this pigtail to the Access Terminal Box (ATB).

Versatile and economical design provides an easy to use and low cost enclosure.

IP65 rated design prevents water and dust intrusion.

The rugged plastic housing cover closes securely with snap latches and has a custom keyed lock.

Features
- Compact and space efficient design
- Gray UV resistant PC and ABS material
- Hinged and gasketed lid fits securely on the base providing a water and dust proof seal (IP65 Rated)
- Secures with snap latches and custom keyed lock
- Cost-effective design with premium features

IP65 Rated

Solid Particle Protection
IP First Digit Rating Level: 6
Totally protected against dust ingress (dust-tight).

Liquid Ingress Protection
IP Second Digit Rating Level: 5
Protected against low pressure water jets from any direction.

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>6.0 x 5.3 x 1.4 (HxWxD)</td>
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<tr>
<td>Fiber Capacity</td>
<td>2</td>
</tr>
<tr>
<td>Cable Entry Openings</td>
<td>(2) 3.0 and (1) 8.0 x 4.3</td>
</tr>
<tr>
<td>Material</td>
<td>ABS + PC Plastic</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Light Gray</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Part Number

ETB- - -

1 Adapter Type
- Leave blank for no adapters
- 1 SCA = 1 Simplex SC/APC Adapter
- 2 SCA = 2 Simplex SC/APC Adapters
- 1LCA = 1 Duplex LC/APC Adapter

2 Pigtail Quantity
- Leave blank for no pigtail
- 1PT = One 900 μm Pigtail
- 2PT = Two 900 μm Pigtauls

Note: 1 meter pigtail length is standard
Fiber Demarcation Terminal (FDT) Series Wallmount Enclosures are compact and weatherproof modular enclosures.

Supports for waterproof flexible conduit entry, pole mounting, and provides more space for cable management.

IP66 rated design prevents water and dust intrusion.

The rugged plastic housing cover closes securely with snap latches and has a provision for a padlock.

**Features**
- Compact and space efficient pole mountable design
- Gray UV resistant PC and ABS material
- Hinged and gasketed lid fits securely on the base providing a water and dust proof seal (IP66 Rated)
- Pad lockable lid closes securely with snap latches
- Cost-effective design with premium features

**Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>11.4 x 7.5 x 5.5 (HxWxD)</td>
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<tr>
<td>Patch/Pre-Term Capacity</td>
<td>12 Fibers SC, 24 Fibers LC, or 72 Fibers MPO</td>
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<tr>
<td>Standard Config. Cable Entry Openings</td>
<td>(3) 1.10</td>
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<tr>
<td>Conduit Ready Config. Cable Entry Openings</td>
<td>(2) 1.38” and (1) 1.73”</td>
</tr>
<tr>
<td>Material</td>
<td>ABS + PC Plastic</td>
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<tr>
<td>Material Finish</td>
<td>Light Gray</td>
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<tr>
<td>Weight (Empty) (lbs)</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**IP66 Rated**

**Solid Particle Protection**  
IP First Digit Rating Level: 6  
Totally protected against dust ingress (dust-tight).

**Liquid Ingress Protection**  
IP Second Digit Rating Level: 6  
Protected against high pressure water jets from any direction.

**Loaded Example**

---

**Fiber Demarcation Terminal (FDT) Series Wallmount Enclosures**

Fiber optic connectivity solutions for outdoor environments, ensuring robust protection against environmental elements and secure data management.
Fiber Demarcation Terminal (FDT)

Outdoor Enclosures

Accessories

- **Medium Compression Fitting**
  - Supports Cable O.D.: 0.29" - 0.60"
  - For Standard Config. (P/N: CF-MD)

- **Three Slot Flat Drop Compression Fitting**
  - with Removable Spacers
  - For Standard Config. (P/N: CF-3S-FD)

- **Flat Drop Compression Fitting**
  - For Standard Config.
  - P/N: N3/4"B-H1-(8.1*4.5)

- **Threaded Plug and Locknut**
  - (See Part Number)

- **Liquid Tight Compression Fitting**
  - for Flex Non-Metallic Conduit Size NPT 1
  - For Conduit Ready Config.
  - P/N: CF-FLCND-1

- **Liquid Tight Compression Fitting**
  - for Flex Non-Metallic Conduit Size NPT 1-1/4
  - For Conduit Ready Config.
  - P/N: CF-FLCND-1-1-4

- **15" Diameter Pole Mount Straps**
  - For Use with Pole Mount Bracket
  - P/N: PMB-STRAPS

- **Pole Mount Bracket**
  - P/N: FDM1929-PMB

Part Number

FDT-12345

1 Cable Entry Configuration
- C = Flex Non-Metallic Conduit
- S = Standard

2 Cable Entry Fittings
- Leave Blank for Standard Grommets
- X THP = X Threaded Hole Plugs
- X MCF = X Medium Compression Fittings
- X FCF = X Flat Drop Compression Fittings
- X 3CF = X 3 Slot Flat Drop Compression Fittings
- X N10 = X Compression Fittings for NPT 1
- X N14 = X Compression Fittings for NPT 1-1/4

3 Adapter Type
- SC = SC
- LC = LC

4 Adapter Count
- XX = XX Fibers

5 Polish Type
- U = UPC
- A = APC

5 Pole Mounting
- Leave Blank for no Pole Mounting Hardware
- PMB = Pole Mount Bracket Included
- PMK = Pole Mount Bracket, Straps, and Screws

ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity™

(925) 447-7500
sales@ariatech.com
www.ariatech.com
Overview

The ARIA Rooftop Box (RTB) Wallmount Enclosure holds a preterminated cable assembly on an internal reel and supports ethernet, power, and fiber cable termination for use with wireless microwave radio building to building communication systems.

The cable is pulled off of the internal spinning reel and the panel holds the remaining slack.

This allows for one panel configuration to serve multiple deployments without the need for slack storage.

A breakout cassette comes preinstalled on single reel configurations and does not interfere with cable deployment.

Double reel or single reel configurations are available depending on the length needed.

The pulled connector is protected with a pulling eye.

It is UL listed, IP67 rated, and provides enhanced network security, durability, and weather protection.

A 12 or 24 fiber breakout cassette, 12-circuit terminal block, and three Cat5e couplers come standard.
Features

- Internal spinning reel stores cable slack and allows one product to serve different deployment scenarios
- Supports up to 1,000 feet of 12 fiber cable internally with capacity for additional cable on an external reel
- A thumbscrew locks the reel rotation once the desired length of cable has been deployed
- Gasketed and pad lockable door
- Management rings and bridge lances organize cable slack
- 12-fiber SC, 12-fiber LC, or 24-fiber LC breakout cassette configurations are available
- Port labeling beside bulkheads for quick identification
- Terminal block provides connections for 12 circuits
- 3 shielded Cat5e couplers
- An M6 brass threaded rod provides an external ground connection and grounds the shielded Cat5e coupler and internal metal plates.

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (HxWxD)</td>
<td>15.7” x 11.8” x 7.1”</td>
</tr>
<tr>
<td>Terminal Block Circuits</td>
<td>12</td>
</tr>
<tr>
<td>Cat5e Connections</td>
<td>3</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>12 SC or 24 LC</td>
</tr>
<tr>
<td>12-Fiber Length Capacity (Feet)</td>
<td>2,000 (Double Reel) or 1,000 (Single Reel)</td>
</tr>
<tr>
<td>24-Fiber Length Capacity (Feet)</td>
<td>1,000 (Double Reel) or 500 (Single Reel)</td>
</tr>
<tr>
<td>Cable Type</td>
<td>3mm OFNP Indoor or 3mm OFNR Indoor/Outdoor Armored</td>
</tr>
<tr>
<td>1.89” Cable Entry Holes</td>
<td>2 - For Use With 1.5” EMT Conduit Compression Connectors or Plugs</td>
</tr>
<tr>
<td>1.26” Cable Entry Holes</td>
<td>3 - For Use With Compression Fittings for Hybrid Cable Assemblies</td>
</tr>
<tr>
<td>Material</td>
<td>UL Rated and UV Resistant Polycarbonate</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Light Gray</td>
</tr>
<tr>
<td>Weight (lbs)</td>
<td>8.5 (Without Cable)</td>
</tr>
</tbody>
</table>

Cable Entry

Two raintight 1.5” EMT conduit compression connectors are included for connectivity from the building or between RTBs.

A 1.89” plug is included when only one RTB is needed.

Three 1.26” plugs are included and when removed support hybrid cable assembly entry.

Pairs With Hybrid Cable Assemblies

Hybrid cable assemblies connect antenna radio systems and are comprised of the following cables:

- 4-conductor 16AWG SJ00W 300V power cable
- 4-pair 24AWG indoor/outdoor shielded cat5e cable
- 2-fiber 4.8mm indoor/outdoor OFNR SM fiber cable
Rooftop Radio Box (RTB)
Outdoor Enclosures

IP67 Rated
Solid Particle Protection
IP First Digit Rating Level: 6
Totally protected against dust ingress (dust-tight).

Liquid Ingress Protection
IP Second Digit Rating Level: 7
Protected from water ingress while immersed in shallow water.

Pairs With ARC Panels
ARC 1RU: Accepts 4 Breakout Cassettes
ARC 2RU: Accepts 8 Breakout Cassettes

Cable Options
3mm Indoor OFNP 12-Fiber
3x6mm Indoor OFNP 24-Fiber Zip-cord
3mm Indoor/Outdoor OFNR 12-Fiber Armored

Breakout Cassette
12-Fiber SC/UPC
P/N: ARC-CAS-12-B-SCU-MPO-1EM-90

12-Fiber LC/UPC
P/N: ARC-CAS-12-B-LCU-MPO-1EM-90

24-Fiber LC/UPC
P/N: ARC-CAS-24-B-LCU-MPO-1EM-90

The ports feature generous spacing for easy access and are labeled for quick identification.

Accessories
Pole Mount Bracket Kit
P/N: RTB-PMB-KIT

Unistrut Direct Attachment Kit
P/N: RTB-US-MTG-KIT

ARC Cassette Wallmount Bracket
P/N: ARC-CAS-WM-BRKT
**Rooftop Radio Box (RTB)**

Outdoor Enclosures

**Part Number**

<table>
<thead>
<tr>
<th>RTB-</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
</table>

**Configuration**

1. Leave Blank for Enclosure With Cable
   - EO = Enclosure Only with No Cassette

**Fiber Count**

2. Leave Blank for Enclosure Only Configuration
   - 12 = 12F
   - 24 = 24F (LC Only)

**Configuration**

3. Leave Blank for No Cable Configuration
   - X = Indoor/Outdoor OFNR Armored*
   - R = Indoor OFNP**

   *Utilizes two cables for 24-fiber configurations
   **Utilizes ziptord for 24-fiber configurations
   Note: Singlemode bend insensitive G.657.A1 fiber only

**Breakout Cassette Connector Type**

3. Leave Blank for Enclosure Only Configuration
   - SCU = SC/UPC
   - SCA = SC/APC
   - LCU = LC/UPC
   - LCA = LC/APC

   Note: Add “2” prefix for two cassettes of the same type included to reduce packaging and for use in ARC panel.

**Connector Type at Far End**

5. Leave Blank for No Cable Configuration
   - SC = SC
   - LC = LC
   - FC = FC
   - ST = ST
   - MP = MPO
   - 00 = No Connector

**Connector Type at Far End**

5. Leave Blank for No Cable Configuration
   - SC = SC
   - LC = LC
   - FC = FC
   - ST = ST
   - MP = MPO
   - 00 = No Connector

   Note: Select MPO APC for use with breakout cassette
   *Unavailable for ST

**Polish Type at Far End**

5. Leave Blank for No Cable Configuration
   - U = UPC
   - A = APC*
   - 0 = No Connector

   Note: Select MPO APC for use with breakout cassette
   *Unavailable for ST

**Breakout Type at Far End**

7. Leave Blank for MPO Connector or No Cable Configuration
   - 9 = 900μm
   - 2 = 2mm

**Breakout Length at Far End**

8. Leave Blank for MPO Connector or No Cable Configuration
   - XX = Length in Inches
   (Typically: 18", 24", or 36")

**Cable Length**

9. Leave Blank for No Cable Configuration
   - XXXXF = XXXX Feet
   - XXXXM = XXXX Meters

   Note: Pulling eye included on far end. Protective cap included for MPO connectors. Lengths over 1,000ft are provided on a double reel.

**Breakout MPO Type at Far End**

9. Leave Blank for MPO Connector or No Cable Configuration
   - Choose 1 Option for Each Feature:
     - 1 = 12 or 2 = 24 Fiber Connector
     - F = Female or M = Male Guide Pins
     - Note: Select 12-fiber female for use with breakout cassette

**Cable Type**

9. Leave Blank for No Cable Configuration
   - X = Indoor/Outdoor OFNR Armored*
   - R = Indoor OFNP**

   *Utilizes two cables for 24-fiber configurations
   **Utilizes ziptord for 24-fiber configurations
   Note: Singlemode bend insensitive G.657.A1 fiber only

**Mounting Hardware**

10. Leave Blank for Standard Wallmounting Hardware
    - PM = Pole Mount Brackets and Worm Gear Clamps
    - UM = Stainless Steel Hex Bolts for Direct Attachment to Unistrut
Compact (CWME) Series Wallmount Enclosures feature patch and splice capabilities.

Some of the enclosures also support 12 fiber MPO to LC connector plug and play functionality and can accommodate splitter modules.

The compact enclosure sizes allow for minimal wall space consumption.

The enclosures provide cable entry grommets and gasketed lids for superior weather resistance.

**Features**

- Indoor/outdoor rated for wall mounting
- Compact and space efficient design
- White UV resistant PC and ABS material
- Hinged and gasketed lid fits securely on the base providing a water and dust proof seal (IP65 Rated)
- Lid closes securely with a self locking mechanism (comes with a custom key)
- The grounding device is isolated within the cabinet
- Dust and waterjet proof (IP65 rated)

**IP65 Rated**

Solid Particle Protection
IP First Digit Rating Level: 6
Totally protected against dust ingress (dust-tight).

Liquid Ingress Protection
IP Second Digit Rating Level: 5
Protected against low pressure water jets from any direction.

**Compact Size**

CWME-4  CWME-8  CWME-12  CWME-24
Compact (CWME) Series
Outdoor Enclosures

Compact Wallmount 4

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>7.3 x 4.6 x 1.6 (HxWxD)</td>
</tr>
<tr>
<td>Patch/Splice Capacity</td>
<td>4 Fibers SC or 8 Fibers LC</td>
</tr>
<tr>
<td>Pre-Term Capacity</td>
<td>6 Fibers SC or 12 Fibers LC</td>
</tr>
<tr>
<td>Plug &amp; Play Capacity</td>
<td>6 Fibers SC or 12 Fibers LC</td>
</tr>
<tr>
<td>Cable Entry Openings</td>
<td>(1) 0.375” &amp; (4) 0.16”x0.14”</td>
</tr>
<tr>
<td>Material</td>
<td>PC and ABS Plastic</td>
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<tr>
<td>Material Finish</td>
<td>White</td>
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<tr>
<td>Weight (Empty) (lbs)</td>
<td>0.5</td>
</tr>
<tr>
<td>Additional Features</td>
<td>Pad Lockable</td>
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</table>

Configurations

Splitter Configuration

- Tab for Wallmounting (1 of 2)
- Splice Tray
- Fanout Kit for Splitter
- LC Adapters
- Clamp for Grounding or OSP Cable Strength Member
- Clamp for OSP Cable Jacket
- OSP Cable Entry Grommet
- Patchcord Cable Entry Grommet
- Radius guide for fiber management (1 of 4)
- 1x8 Splitter
- Removable lid
- Secure Door Fastener
- Hole for Padlock
- Weatherproof Gasket for Door
- Door Latch (1 of 2)
- Clamp for Patchcords
### Compact Wallmount 8

#### Configurations

- **Patch and Splice**
- **MPO Plug & Play**
- **Pre-Terminated**

#### Splitter Configuration

- **Hole for Wallmounting** (1 of 3)
- **Weatherproof Gasket for Door**
- **LC Adapters**
- **Removable lid**
- **Secure Door Fastener**
- **Patchcord Cable Entry Grommet (1 of 4)**
- **Door Latch (1 of 2)**
- **Splice Tray**
- **1x16 Splitter**
- **Radius guide for fiber management**
- **Fanout Kit for Splitter**
- **Clamp for Grounding or OSP Cable Strength Member**
- **Clamp for OSP Cable Jacket**
- **Compression Fitting for OSP Cable Entry**

### Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions (Inches)</strong></td>
<td>8.4 x 6.4 x 1.9 (HxWxD)</td>
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<tr>
<td><strong>Patch/Splice Capacity</strong></td>
<td>8 Fibers SC or LC</td>
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<tr>
<td><strong>Pre-Term Capacity</strong></td>
<td>8 Fibers SC or 16 Fibers LC</td>
</tr>
<tr>
<td><strong>Plug &amp; Play Capacity</strong></td>
<td>6 Fibers SC or 12 Fibers LC</td>
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<tr>
<td><strong>Cable Entry Openings</strong></td>
<td>(1) 0.5” &amp; (4) 0.9”x0.5”</td>
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<tr>
<td><strong>Material</strong></td>
<td>PC and ABS Plastic</td>
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<tr>
<td><strong>Material Finish</strong></td>
<td>White</td>
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<tr>
<td><strong>Weight (Empty) (lbs)</strong></td>
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<tr>
<td><strong>Additional Features</strong></td>
<td>Included compression fitting</td>
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</table>
Compact (CWME) Series
Outdoor Enclosures

Compact Wallmount 12

Specifications

<table>
<thead>
<tr>
<th>Dimension (Inches)</th>
<th>8.85 x 7.85 x 2.55 (HxWxD)</th>
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</thead>
<tbody>
<tr>
<td>Patch/Splice Capacity</td>
<td>12 Fibers SC or LC</td>
</tr>
<tr>
<td>Pre-Term Capacity</td>
<td>12 Fibers SC or LC</td>
</tr>
<tr>
<td>Plug &amp; Play Capacity</td>
<td>N/A</td>
</tr>
<tr>
<td>Cable Entry Openings</td>
<td>(2) 0.6&quot;, (12) 0.21&quot; &amp; (1) 0.9&quot;</td>
</tr>
<tr>
<td>Material</td>
<td>ABS Plastic</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Light Gray</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>1.0</td>
</tr>
<tr>
<td>Additional Features</td>
<td>Dual OSP Cable Entry Ports</td>
</tr>
</tbody>
</table>

Configurations

Patch and Splice Configuration

- Adapters for patching on other side
- Pigtail Organizer
- Splice Sleeve Organizer
- Clamp for Grounding or OSP Cable Strength Member
- Clamp for OSP Cable Jacket
- Grommet for OSP Cable Entry
- Hole for Wallmounting (1 of 2)
- Radius guide for fiber management
- Patchcords
- Patchcord organizer
- Patchcord Cable Entry Grommet

Outdoor Enclosures

ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity®

(925) 447-7500
sales@ariatech.com
www.ariatech.com
Compact Wallmount 24

Specifications

<table>
<thead>
<tr>
<th>Dimension (Inches)</th>
<th>12.6 x 9.45 x 3.94 (HxWxD)</th>
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<tbody>
<tr>
<td>Patch/Splice Capacity</td>
<td>24 Fibers SC or LC</td>
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<tr>
<td>Pre-Term Capacity</td>
<td>24 Fibers SC or LC</td>
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<tr>
<td>Plug &amp; Play Capacity</td>
<td>N/A</td>
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<tr>
<td>Cable Entry Openings</td>
<td>(2) 0.6&quot;, (24) 0.21&quot; &amp; (2) 0.9&quot;</td>
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<tr>
<td>Weight (Empty) (lbs)</td>
<td>3.0</td>
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<tr>
<td>Additional Features</td>
<td>Dual OSP Cable Entry Ports</td>
</tr>
</tbody>
</table>

Configurations

Patch and Splice Configuration

- Pigtail Organizer
- Splice Sleeve Organizer
- Clamp for Grounding or OSP Cable Strength Member
- Clamp for OSP Cable Jacket
- Adapters for patching on other side
- Hole for Wallmounting (1 of 3)
- Radius guide for fiber management
- Grommet for OSP Cable Entry (shown with optional compression fitting)
- Patchcord Cable Entry Grommet
### Compact (CWME) Series

**Outdoor Enclosures**

**Accessories**

CWME-8 Pole Mounting Brackets  
P/N: CWME-8-PMB

CWME-12/24 Pole Mounting Brackets  
P/N: CWME-1224-PMB

### Part Number

**CWME-****

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
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</thead>
<tbody>
<tr>
<td>Enclosure Type</td>
<td>Pigtail, MPO, or Splitter</td>
<td>Stub Cable Construction</td>
<td>Fiber Count</td>
<td>Adaptor Type</td>
<td>Fiber Type</td>
<td>Stub Jacket Type</td>
<td>Stub Length</td>
</tr>
</tbody>
</table>

#### Enclosure Type
- 4 = Compact Wallmount 4
- 8 = Compact Wallmount 8
- 12 = Compact Wallmount 12
- 24 = Compact Wallmount 24

#### Fiber Count

XX = XX Fibers

#### Adapter Type

SC = SC
LC = LC

#### Polish Type

U = Singlemode UPC
A = Singlemode APC*
M = Multimode PC

*Unavailable for ST

#### Pigtail, MPO, or Splitter

N = No Pigtail or Pre-Term
9 = 900 μm
P = Plug and Play
   Standard MPO
E = Plug and Play Elite MPO
S = Splitter

Note: 2 meter pigtail length is standard on the CWME-4 and 3 meter pigtail length is standard on the CWME-8/12/24

#### Stub Cable Construction

Leave Blank for No Stub

D = Distribution (I or X)
B = Breakout (X)
M = Micro Round (I, X, or O)
L = Loose Tube (X or O)
R = Ribbon (I, X, or O)
F = Flat Drop (Up to 24F) (O)

(I) = Indoor Only
(X) = Indoor/Outdoor Only
(O) = Outdoor Only

#### Fiber Type

N = No Pigtail
S = SM 9/125μm G.652.D
B = SM 9/125μm Bend Insensitive G.657.A1
1 = MM 62.5/125μm OM1
2 = MM 50/125μm OM2
3 = MM 50/125μm OM3
4 = MM 50/125μm OM4

#### Stub Jacket Type

Leave Blank for No Stub

Choose 1 Option for Each Feature:

I = Indoor or X = I/O or O = Outdoor
R = OFNR or P = OFNP or L = LSZH*
N = Non-Armored or A = Armored

*Leave Blank for Outdoor Cable

#### Stub Length

Leave Blank for No Stub
Add -PE for a Pulling Eye

XXXF = XXX Feet
XXXM = XXX Meters
ARIA Demarc (ADM) Series

Outdoor Enclosures

ARIA Demarc (ADM) Enclosures are small wallmount enclosures that features patch and splice capabilities. Three compact sizes are available and support up to 48 fibers LC with accommodation for splitter modules. The enclosures provide compression fittings, cable entry grommets and gasketed lids for superior weather resistance. Folding partitions with bulkhead access on one side and splice access on the other create a minimal enclosure footprint while supporting easy fiber access.

Straps, strand mounting brackets and direct pole mounting brackets are available.

Features

- Compact and space efficient design
- White UV resistant PC and ABS material
- Hinged and gasketed lid fits securely on the base providing a water and dust proof seal (IP65 Rated)
- Lid closes securely with a self locking mechanism (comes with a custom key)
- Dust and waterjet proof (IP65 rated)

IP65 Rated

Solid Particle Protection
IP First Digit Rating Level: 6
Totally protected against dust ingress (dust-tight).

Liquid Ingress Protection
IP Second Digit Rating Level: 5
Protected against low pressure water jets from any direction.

Mounting Configurations

Wallmount or Strap Polemount
Bolt Polemount
Strandmount
ARIA Demarc (ADM) Series
Outdoor Enclosures

**Specifications**

**ADM 8**

- **Dimensions (Inches):** 8.1 x 7.1 x 1.8 (HxWxD)
- **Patch/Splice Capacity:** 8 Fibers SC or 16 Fibers LC
- **Pre-Term Capacity:** 8 Fibers SC or 16 Fibers LC
- **Cable Entry Openings:** (3) 0.42", (8) 0.23" & (1) 0.5"
- **Material:** ABS Plastic
- **Material Finish:** Light Gray
- **Weight (Empty) (lbs):** 1.0

**ADM 16**

- **Dimensions (Inches):** 12.6 x 10.2 x 3.5 (HxWxD)
- **Patch/Splice Capacity:** 16 Fibers SC or 24 Fibers LC
- **Pre-Term Capacity:** 16 Fibers SC or 32 Fibers LC
- **Cable Entry Openings:** (2) 0.42" and (16) 0.45"
- **Material:** ABS Plastic
- **Material Finish:** Light Gray
- **Weight (Empty) (lbs):** 2.5
ARIA Demarc (ADM) Series
Outdoor Enclosures

**ADM 24**

**Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>12.6 x 10.2 x 3.5 (HxWxD)</td>
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<tr>
<td>Patch/Splice Capacity</td>
<td>24 Fibers SC or LC</td>
</tr>
<tr>
<td>Pre-Term Capacity</td>
<td>24 Fibers SC or 48 Fibers LC</td>
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<tr>
<td>Cable Entry Openings</td>
<td>(2) 0.42” and (16) 0.45”</td>
</tr>
<tr>
<td>Material</td>
<td>ABS Plastic</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Light Gray</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>2.5</td>
</tr>
</tbody>
</table>

**ADM 8 Cable Entry**

Compression Fittings  Jumper Entry Grommet

**ADM 16/24 Cable Entry**

Compression Fittings  Jumper Entry Grommet

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www.ariatech.com
### ARIA Demarc (ADM) Series

**Outdoor Enclosures**

**Accessories**

![15" Diameter Pole Mount Straps (P/N: PMB-STRAPS)](image)

**Part Number**

```
<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>ADM-1-2-3-4-5-6-7-8-9</td>
<td></td>
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</tbody>
</table>
```

1. **Enclosure**
   - 08 = ADM 8
   - 16 = ADM 16
   - 24 = ADM 24

2. **Enclosure Type**
   - W = Wallmount or Strap Polemount
   - P = Bolt Polemount
   - S = Strandmount

3. **Fiber Count**
   - XX = XX Fibers

4. **Adapter Type**
   - SC = SC
   - LC = LC

5. **Pigtail or Splitter**
   - N = No Pigtail or Pre-Term
   - 9 = 900 μm Pigtail
   - S = Splitter
   - Note: 2 meter pigtail length is standard

6. **Fiber Type**
   - S = SM 9/125μm G.652.D
   - B = SM 9/125μm Bend Insensitive G.657.A1
   - 1 = MM 62.5/125μm OM1
   - 2 = MM 50/125μm OM2
   - 3 = MM 50/125μm OM3
   - 4 = MM 50/125μm OM4

7. **Stub Cable Construction**
   - Leave Blank for No Stub
   - D = Distribution (I or X)
   - B = Breakout (X)
   - M = Micro Round (I, X, or O)
   - L = Loose Tube (X or O)
   - R = Ribbon (I, X, or O)
   - F = Flat Drop (Up to 24F) (O)
   - (I) = Indoor Only
   - (X) = Indoor/Outdoor Only
   - (O) = Outdoor Only

8. **Stub Jacket Type**
   - Leave Blank for No Stub
   - Choose 1 Option for Each Feature:
     - I = Indoor or X = I/O or O = Outdoor
     - R = OFNR or P = OFNP or L = LSZH*
     - N = Non-Armored or A = Armored
   - *Leave Blank for Outdoor Cable

9. **Stub Length**
   - Leave Blank for No Stub
   - Add -PE for a Pulling Eye
   - XXXF = XXX Feet
   - XXXM = XXX Meters

---

*ARIA Technologies, Inc.
Fiber Optic Connectivity*
Outdoor Distribution Enclosure (ODE)

Overview
The Outdoor Distribution Enclosure (ODE) is designed for environments where durability, security, and weather resistance are required.

The ODE can be supplied with a microduct manifold, pre-terminated drop cable, or ODVA adapters.

The compact and rugged format provides an ideal pole mountable enclosure for many applications.

NEMA 4 Rated
Rated for either indoor or outdoor use and provides protection to personnel against incidental contact with the enclosed equipment and protects from falling dirt, rain, sleet, snow, windblown dust, splashing water, hose-directed water and the external formation of ice.

Features
- Lightweight, weatherproof, and flexible enclosure provides connectivity in almost any environment.
- The bottom of the ODE features knockouts that support compression fittings or adapters for ODVA Style IP67 Rated Cable Assemblies.
- There is a knockout on the rear of the ODE that accepts an optional weatherproof gasket for securely transitioning cable to the inside of a pole.
- The outer pad-lockable door and wallmount brackets can be supplied with Torx Security fasteners for enhanced security.
- Pole mount brackets are available
- Cable tie down locations and fiber management rings provide an organized and secure path for fiber.

ARIA Splice Cassette Support

ARIA Technologies, Inc.
Fiber Optic Connectivity™
Outdoor Distribution Enclosure (ODE)

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
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<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>15.3 x 9.5 x 4.3 (HxWxD)</td>
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<tr>
<td>Adapter Plate Capacity</td>
<td>2</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>24 SC or 48 LC</td>
</tr>
<tr>
<td>Bottom Knockouts</td>
<td>(6) 1.1” and (1) 1.5”</td>
</tr>
<tr>
<td>Rear Knockouts</td>
<td>(1) 2.0” Knockout</td>
</tr>
<tr>
<td>Material</td>
<td>2.0mm Thick Aluminum</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Gray Powder Coat</td>
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<tr>
<td>Weight (Empty) (lbs)</td>
<td>5.0</td>
</tr>
<tr>
<td>Additional Features</td>
<td>Knockout on rear for cable entry via pole</td>
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</tbody>
</table>

Bottom Cable Entry

Rear Cable Entry

Microduct Manifold Support

The microduct manifold provides the ability to accept air blown or pushable fiber through microduct.
Outdoor Distribution Enclosure (ODE)

Outdoor Enclosures

Compatible with ODVA IP67 Rated Cable Assemblies

The bottom side of the enclosure features knockouts that are compatible with ODVA Style IP67 Rated Cable Assemblies

Accessories

- Medium Compression Fitting Supports
  Cable O.D.: 0.29”-0.60” P/N: CF-MD
- Three Slot Flat Drop Compression Fitting with Rem. Spacers
  P/N: CF-3S-FD
- Large Compression Fitting Supports Cable O.D.: 0.59”-0.99”
  P/N: CF-LG
- Gasket for Rear Cable Entry using a 10” Pole*
  (P/N: ODE-REAR-GASKET)
- Flat Drop Compression Fitting (P/N: N3/4”B-H1-(8.1*4.5))
- Torx Security Bit
  P/N: TS-M6-B
- Torx Security Driver with Bit
  P/N: TS-M6-D
- Tap for Direct Pole Mounting
  P/N: M6-1-TAP
- Pole Mount Brackets
  P/N: PMB-KIT
- 15” Diameter Pole Mount Straps (P/N: PMB-STRAPS)
- Side Cable Attachment Bracket
  P/N: ODE-SCAB
- Compression Fitting Strain Relief Bracket
  P/N: CMPFITSR-BRACKET
- Microduct Manifold Supports 10 mm OD Microduct
  P/N: MDM-12X-10
- Microduct Manifold Supports 8.5 mm OD Microduct
  P/N: MDM-12X-8.5

*Not Compatible with Pole Mount Brackets
Outdoor Distribution Enclosure (ODE)

1. **Enclosure Fasteners**
   - P2 = Phillips Drive for lid and wallmounting
   - T2 = Torx Security Drive for lid and wallmounting
   - T6 = Torx Security Drive for lid and metal pole mounting

2. **Adapter Plate Type**
   - 00 = None
   - 06 = 6 Port (SC/FC/ST)
   - 08 = 8 Port (SC/FC/ST)
   - 12 = 12 Port (SC/LC/FC/ST)
   - 24 = 24 Port (LC)

3. **Adapter Plate Quantity**
   - X = X Plates

4. **Adapter Type**
   - SC = SC
   - LC = LC
   - FC = FC
   - ST = ST
   - 00 = None

5. **Polish Type**
   - U = Singlemode UPC
   - A = Singlemode APC*
   - M = Multimode UPC
   - 0 = None
   *Unavailable for ST

6. **Adapter Jacket Type**
   - Leave Blank for No Stub
   - D = Distribution (I or X)
   - B = Breakout (X)
   - M = Micro Round (I, X, or O)
   - L = Loose Tube (X or O)
   - R = Ribbon (I, X, or O)
   - F = Flat Drop (Up to 24F) (O)
   - (I) = Indoor Only
   - (X) = Indoor/Outdoor Only
   - (O) = Outdoor Only

7. **Fiber Type**
   - Leave Blank for No Stub
   - S = SM 9/125μm G.652.D
   - B = SM 9/125μm Bend Insensitive G.657.A1
   - 1 = MM 62.5/125μm OM1
   - 2 = MM 50/125μm OM2
   - 3 = MM 50/125μm OM3
   - 4 = MM 50/125μm OM4

8. **Stub Length**
   - Leave Blank for No Stub
   - Add -PE for a Pulling Eye
   - Add -R for rear cable exit
   - XXXF = XXX Feet
   - XXXM = XXX Meters

*Leave Blank for Outdoor Cable
Outdoor Enclosures

NEMA 4 Rated AWM Series Wallmount Enclosures are fiber optic patch and splice enclosures designed for environments where durability, security, and weather resistance are required.

Patch and splice, patch only, or splice only configurations are available.

The panels feature dual post internal grounding lugs, 6 position exterior grounding lugs, and a grounded door.

The enclosures are NEMA 4 rated, have a gasketed and pad-lockable outer door, and an inner lockable splice compartment door for enhanced network security and weather protection.

The outer pad-lockable door is secured with 7/16” hex bolt fasteners.

Overview

NEMA 4 Rated

NEMA 4 Rated for either indoor or outdoor use and provides protection to personnel against incidental contact with the enclosed equipment and protects from falling dirt, rain, sleet, snow, windblown dust, splashing water, hose-directed water and the external formation of ice.

Outer Gasketed Door

Outer Door Pivot Arm

Pivot arm to locks the door in the open position.

ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity™

(925) 447-7500
sales@ariatech.com
www.ariatech.com
NEMA 4 Rated AWM 6

Cable Entry
The knockouts on this panel support 1” conduit, medium compression fittings, large compression fittings, and microduct manifolds.

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>11.9 x 14.0 x 4.75 (HxWxD)</td>
</tr>
<tr>
<td>Adapter Plate Capacity</td>
<td>6</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>72 SC or 144 LC (Ribbon)</td>
</tr>
<tr>
<td>Splice Only Capacity</td>
<td>6 Splice Trays for 144F Single or 432F Ribbon</td>
</tr>
<tr>
<td>Patch Side Knockouts</td>
<td>(8) 1.1” and (1) 1.5”</td>
</tr>
<tr>
<td>Splice Side Knockouts</td>
<td>(4) 1.1” and (1) 1.5”</td>
</tr>
<tr>
<td>Material</td>
<td>2.0mm Thick Aluminum</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Gray Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>8.5</td>
</tr>
</tbody>
</table>

Inner Splice Compartment Door

Splice Only Configuration Available

Pre-Terminated Configuration Available
ARIA’s NEMA 4 Rated AWM 6 Wallmount Enclosure can be provided with a pre-terminated drop cable.

This eliminates the need to splice fibers within the enclosure.

This also reduces the time required for installation and reduces the cost of labor associated with installation.
NEMA 4 Rated AWM Series
Outdoor Enclosures

NEMA 4 Rated AWM 6 Loaded with 6 1x8 SCA Splitters
NEMA 4 Rated AWM Series
Outdoor Enclosures

Specifications

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</tr>
<tr>
<td>Adapter Plate Capacity</td>
<td>6</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>72 SC or 144 LC</td>
</tr>
<tr>
<td>Bottom Knockouts</td>
<td>(2) 2.0”</td>
</tr>
<tr>
<td>Material</td>
<td>2.0mm Thick Aluminum</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Gray Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>8.5</td>
</tr>
</tbody>
</table>

NEMA 4 Rated AWM 6 Patch Only

The NEMA 4 Rated AWM 6 Patch Only has evenly spaced inner compartments, no radius guides and (2) 2” knockouts.

Cable Entry

Inner Left Patch Compartment Door

Typical Patch Only Accessories

- Microduct Manifold Adapter Kit
  Allows Manifold to fit in a 2.0” hole
  P/N: MDM-12X-2IN-KIT

- LGX Adapter Plate with (6) LC/UPC Duplex Bulkheads
  P/N: LGX-B-SC-SM-BLUE-12

- LGX Adapter Plate with (6) Cat 5e Keystone Jack Feedthrough Couplers
  P/N: LGX-CAT5-06-B
NEMA 4 Rated Slotted Cable Entry

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
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<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>11.9 x 14.0 x 4.75 (HxWxD)</td>
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<tr>
<td>Adapter Plate Capacity</td>
<td>6</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>72 SC or 144 LC (Ribbon)</td>
</tr>
<tr>
<td>Splice Only Capacity</td>
<td>6 Splice Trays for 144F Single or 432F Ribbon</td>
</tr>
<tr>
<td>Splice Side Cable Entry</td>
<td>(2) U-Shaped Openings with Gasketed Cover Plates for Split Cable Gland</td>
</tr>
<tr>
<td>Patch Side Cable Entry</td>
<td>U-Shaped Opening with Gasketed Cover Plates for Split Cable Gland</td>
</tr>
<tr>
<td>Material</td>
<td>2.0mm Thick Aluminum</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Gray Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>8.5</td>
</tr>
</tbody>
</table>

Cable Entry

The U-shaped cable entry slots are sealed with gasketed plates.

Cable entry is accomplished with a split cable gland.
### NEMA 4 Rated AWM Series

#### NEMA 4 Rated AWM 8

**Cable Entry**

The knockouts on this panel support 1” conduit, 2” conduit, medium compression fittings, large compression fittings, and microduct manifolds.

**Inner Splice Compartment Door**

**Pre-Terminated Configuration Available**

ARIA’s NEMA 4 Rated AWM 8 Wallmount Enclosure can be provided with a pre-terminated drop cable.

This eliminates the need to splice fibers within the enclosure.

This also reduces the time required for installation and reduces the cost of labor associated with installation.

### Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>15.0 x 17.5 x 7.0 (HxWxD)</td>
</tr>
<tr>
<td>Adapter Plate Capacity</td>
<td>8</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>96 SC or 192 LC (Ribbon)</td>
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<tr>
<td>Patch Side Knockouts</td>
<td>(1) 1.1”, (3) 1.5” &amp; (1) 2.45”</td>
</tr>
<tr>
<td>Splice Side Knockouts</td>
<td>(6) 1.1”, (1) 1.5” &amp; (1) 2.45”</td>
</tr>
<tr>
<td>Material</td>
<td>2.0mm Thick Aluminum</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Gray Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>12.0</td>
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</tbody>
</table>

The knockouts on this panel support 1” conduit, 2” conduit, medium compression fittings, large compression fittings, and microduct manifolds.
NEMA 4 Rated AWM Series
Outdoor Enclosures

Supports ODVA Hardened Assemblies

Optional Compression Fitting SRB

The bottom side of the enclosure features knockouts that are compatible with ODVA Style IP67 Rated Cable Assemblies

OSP Cable Strength Member Secured to Cable Attachment Bracket

Compression Fitting Strain Relief Bracket

Compression Fitting

NEMA 4 Rated AWM 6 Support For Compact LGX Splice Cassettes
NEMA 4 Rated AWM Series

Outdoor Enclosures

NEMA 4 Rated AWM 8 Support For Compact LGX Splice Cassettes

Accessories

Medium Compression Fitting
Supports Cable O.D.: 0.29”-0.60”
P/N: CF-MD

Three Slot Flat Drop Compression Fitting with Removable Spacers
P/N: CF-3S-FD

Large Compression Fitting
Supports Cable O.D.: 0.59”-0.99”
P/N: CF-LG

Microduct Manifold Supports 10 mm OD Microduct
P/N: MDM-12X-10

Microduct Manifold Supports 8.5 mm OD Microduct
P/N: MDM-12X-8.5

Flat Drop Compression Fitting
P/N: N3/4”B-H1-(8.1*4.5)

Compression Fitting Strain Relief Bracket
P/N: CMP-FITSR-BRACKET

Pole mounting kit
P/N: NEMA-Pole-Mount-Kit

24 Fiber Single Fiber Fusion Splice Tray (4”x8”)
P/N: 4824CWMP

6 Position Ribbon Fiber Mass Fusion Splice Tray (4”x8”)
P/N: 4872RCWM
# NEMA 4 Rated AWM Series

## Outdoor Enclosures

### Part Number

<table>
<thead>
<tr>
<th>NEMA4-</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
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<th>6</th>
<th>7</th>
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<th>9</th>
<th>10</th>
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<tbody>
<tr>
<td><strong>Panel Configuration</strong></td>
<td>6X = NEMA 4 Rated AWM 6</td>
<td>6P = NEMA 4 Rated AWM 6 Patch Only</td>
<td>6S = NEMA 4 Rated AWM 6 Slotted Cable Entry</td>
<td>8X = NEMA 4 Rated AWM 8</td>
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<tr>
<td><strong>Adapter Plate Type</strong></td>
<td>SP = Splice Only*</td>
<td>06 = 6 Port (SC/FC/ST)</td>
<td>08 = 8 Port (SC/FC/ST)</td>
<td>12 = 12 Port (SC/LC/FC/ST)</td>
<td>24 = 24 Port (LC)</td>
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<tr>
<td><strong>Adapter Plate Quantity</strong></td>
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<td><strong>Adapter Type</strong></td>
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<td><strong>Polish Type</strong></td>
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<td></td>
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</tr>
<tr>
<td><strong>Pigtail</strong></td>
<td>N = No Pigtail or Pre-Term</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>Splice Trays</strong></td>
<td>N = None</td>
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<td></td>
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</tr>
<tr>
<td><strong>Note:</strong> 3 meter pigtail length is standard</td>
<td></td>
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<tr>
<td><strong>Stub Cable Construction</strong></td>
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<tr>
<td><strong>Stub Jacket Type</strong></td>
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<tr>
<td><strong>Stub Length</strong></td>
<td>Leave Blank for No Stub</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*6X Only

---

*Unavailable for ST

---

*This enclosure comes standard with 4”x8” splice trays in 24 fiber single fiber fusion or 6 position ribbon fiber mass fusion configurations.
IP68 Rated WTU Series Wallmount Enclosures are compact gel gasketed patch and splice enclosures. They are ideal for FTTH due to harsh environment support, splitter compatibility, and pole mounting capability. The slotted cable entry openings makes midspan access ring cuts easy. Lid latches and an integrated compartment for holding a PLC splitter supports convenient entry and deployment.

**IP68 Rated**

**Solid Particle Protection**

*IP First Digit Rating Level: 6*

Totally protected against dust ingress (dust-tight).

**Liquid Ingress Protection**

*IP Second Digit Rating Level: 8*

Protected from water ingress while immersed in deep water.

**Features**

- Compact and space efficient design
- Black UV resistant PP material
- Gel gasket and cable plugs support IP68 rating
- Removable splice tray
- Slot on back for polemounting support
- Cable tie down points for all entry and exit cables
- Compliant with UL 94 Plastic Flammability Test

**Integrated Pole Mount Support**
IP68 Rated WTU Series
Outdoor Enclosures

Example WTU 16 2X LGX with 2 DWDM Cassettes

Example WTU 16 with 24-Fiber LC Pre-Term
IP68 Rated WTU Series
Outdoor Enclosures

WTU 8

Specifications

<table>
<thead>
<tr>
<th>Dimensions (Inches)</th>
<th>9.9 x 8.3 x 2.8 (HxWxD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patch Only or Pre-term Fiber Capacity</td>
<td>16 (LC) or 8 (SC)</td>
</tr>
<tr>
<td>Patch &amp; Splice Fiber Capacity</td>
<td>8 (SC or LC)</td>
</tr>
<tr>
<td>Cable Entry</td>
<td>(2) 14mm and (8) 3mm</td>
</tr>
<tr>
<td>Material</td>
<td>Black Polypropylene</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Example Pre-Term Configurations

2mm Breakout
900µm Breakout

Splicing Support

The splice tray is housed in the lid, supports up to 8 splices, and fits a 1x16 splitter.

WTU 16

Specifications

<table>
<thead>
<tr>
<th>Dimensions (Inches)</th>
<th>11.8 x 8.3 x 4.1 (HxWxD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patch Only or Pre-term Fiber Capacity</td>
<td>32 (LC) or 16 (SC)</td>
</tr>
<tr>
<td>Patch &amp; Splice Fiber Capacity</td>
<td>24 (SC or LC)</td>
</tr>
<tr>
<td>Cable Entry</td>
<td>(4) 20mm and (16) 2x4mm</td>
</tr>
<tr>
<td>Material</td>
<td>Black Polypropylene</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>2.5</td>
</tr>
</tbody>
</table>

Splicing Support

The splice tray is housed behind the hinged adapter tray, supports up to 24 splices, and fits a 1x32 splitter.
### IP68 Rated WTU Series

**Outdoor Enclosures**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>WTU-</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
</tr>
</thead>
</table>
| **Enclosure** | 08 = WTU 8  
16 = WTU 16  
2X = WTU 16 With 2X LGX Support | | | | | | | | | | | | |
| **PLC Splitter Configuration** | Leave Blank for No Splitter  
1x16 = 1x16 Splitter  
1x32 = 1x32 Splitter (WTU 16 Only) | | | | | | | | | | | | |
| **Port Count** | X = X Ports | | | | | | | | | | | | |
| **Adapter Type** | SC = SC  
LC = LC | | | | | | | | | | | | |
| **Polish Type** | U = UPC  
A = APC | | | | | | | | | | | | |
| **Pigtail** | N = No Pigtail or Pre-Term  
M = 900 µm  
R = Ribbon | Note: 3 meter long singlemode pigtail is standard | | | | | | | | | | | | |
| **Stub Cable Construction** | Leave Blank for No Stub  
D = Distribution (I or X)  
B = Breakout (X)  
M = Micro Round (I, X, or O)  
L = Loose Tube (X or O)  
R = Ribbon (I, X, or O)  
F = Flat Drop (Up to 24F) (O)  
(I) = Indoor Only  
(X) = Indoor/Outdoor Only  
(O) = Outdoor Only | | | | | | | | | | | | |
| **Stub Jacket Type** | Leave Blank for No Stub  
Choose 1 Option for Each Feature:  
I = Indoor or X = I/O or O = Outdoor  
R = OFNR or P = OFNP or L = LSZH*  
N = Non-Armored or A = Armored  
*Leave Blank for Outdoor Cable | | | | | | | | | | | | |
| **Polish Type at Far End** | Leave Blank for No Stub  
U = UPC  
A = APC*  
0 = No Connector  
*Unavailable for ST and select for MPO | | | | | | | | | | | | |
| **MPO Type at Far End** | Leave Blank for Non-MPO Connector or No Stub  
Choose 1 Option for Each Feature:  
1 = 12 or 2 = 24 Fiber Connector  
F = Female or M = Male Guide Pins | | | | | | | | | | | | |
| **Breakout Type at Far End** | Leave Blank for MPO Connector or No Stub  
9 = 900µm  
2 = 2mm | | | | | | | | | | | | |
| **Breakout Length at Far End** | Leave Blank for MPO Connector or No Stub  
XX = Length in Inches  
Typically: 18", 24", or 36" | | | | | | | | | | | | |
| **Connector Type at Far End** | Leave Blank for No Stub  
SC = SC  
LC = LC  
FC = FC  
ST = ST  
MP = MPO  
00 = No Connector | | | | | | | | | | | | |
| **Connector Type at Far End** | Leave Blank for No Stub  
SC = SC  
LC = LC  
FC = FC  
ST = ST  
MP = MPO  
00 = No Connector | | | | | | | | | | | | |
| **Breakout Length at Far End** | Leave Blank for MPO Connector or No Stub  
XX = Length in Inches  
Typically: 18", 24", or 36" | | | | | | | | | | | | |
| **Stub Length** | Leave Blank for No Stub  
Add -PE for a Pulling Eye  
XXXF = XXX Feet  
XXXM = XXX Meters | | | | | | | | | | | | 

(A)RIA TECHNOLOGIES, INC.  
Fiber Optic Connectivity®  
(925) 447-7500  
sales@ariatech.com  
www.ariatech.com
The ARIA Access Terminal (AAT) is an IP68 rated weatherproof terminal enclosure that can provide up to 12 ports of connectivity at any network access point.

Connectivity is provided via SC/APC H-Connectors. Splitter and FBG configurations are available.

The environmentally protected connectors and drop assemblies allow for fast and easy installation of the subscriber drop.

The AAT’s flexibility, reliability, and compact footprint provides fast and simple deployment within a network.

Features

- Compact environmentally sealed IP68 rated weatherproof design supports placement above or below grade
- Wall, pole, and aerial mount capability supports use in a variety of network applications
- Flexible configurations provide maximum scalability across multiple services classes
- Pre-term configuration enables fast drop deployment to the subscriber
- 12 port terminal capacity
- Terminal ports are sealed with airtight and watertight caps until connectivity is needed
- Meets Telcordia GR-771 (aerial weathertight closure), Telcordia GR-326 Issue 4, and IP68 requirements
- Connectors are 100% tested for insertion loss, return loss, and endface quality

H-Connector Compatibility

IP68 Rated

Solid Particle Protection
IP First Digit Rating Level: 6
Totally protected against dust ingress (dust-tight).

Liquid Ingress Protection
IP Second Digit Rating Level: 8
Protected from water ingress while immersed in deep water.
ARIA Access Terminal (AAT)
Outdoor Enclosures

12-Port Mounting Options

Wall-Mount  Pole-Mount  Aerial-Mount

Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>2 Port</th>
<th>4 Port</th>
<th>6 Port</th>
<th>8 Port</th>
<th>12 Port</th>
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</thead>
<tbody>
<tr>
<td><strong>Dimensions (HxWxD) (mm)</strong></td>
<td>172x111x78</td>
<td>172x111x78</td>
<td>172x111x78</td>
<td>244x111x78</td>
<td>374x143x90</td>
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<tr>
<td><strong>Enclosure Material</strong></td>
<td>Black UV Resistant Polycarbonate (PC)</td>
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<td></td>
<td></td>
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<tr>
<td><strong>Weight (lbs)</strong></td>
<td>2.5 (1.2 kg)</td>
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<tr>
<td><strong>Compliance and Standards</strong></td>
<td>Telcordia GR-771, Telcordia GR-326 Issue 4, and IP68</td>
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<tr>
<td><strong>Connector Support</strong></td>
<td>SC/APC H-Connector</td>
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<tr>
<td><strong>Splitter Support</strong></td>
<td>1x2, 1x4, or 1x8</td>
<td></td>
<td></td>
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<tr>
<td><strong>FBG Support</strong></td>
<td>1650nm</td>
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<tr>
<td><strong>Fiber Type</strong></td>
<td>Singlemode G.657.A1 Bend Insensitive</td>
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Splitter Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>1x2</th>
<th>1x4</th>
<th>1x8</th>
</tr>
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<tbody>
<tr>
<td><strong>Insertion Loss (dB)</strong></td>
<td>3.8</td>
<td>7.2</td>
<td>10.3</td>
</tr>
<tr>
<td><strong>Loss Uniformity (dB)</strong></td>
<td>0.4</td>
<td>0.6</td>
<td>0.8</td>
</tr>
<tr>
<td><strong>Operating Wavelength (nm)</strong></td>
<td>1260~1650</td>
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<tr>
<td><strong>Fiber Type</strong></td>
<td>Singlemode G.657.A1 Bend Insensitive</td>
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<tr>
<td><strong>Polarization Dependent Loss (dB)</strong></td>
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<tr>
<td><strong>Return Loss (dB)</strong></td>
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<tr>
<td><strong>Directivity (dB)</strong></td>
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<td><strong>Wavelength Dependent Loss (dB)</strong></td>
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<tr>
<td><strong>Temperature Stability (dB)</strong></td>
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<tr>
<td><strong>Operating &amp; Storage Temperature (°C)</strong></td>
<td>-40~+85</td>
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</table>
Mounting the 12-Port AAT

Attach the Mounting Bracket to a Pole or Wall
Insert the Bottom Portion of the AAT into the Mounting Bracket
Push the AAT Forward Until It Snaps onto the Mounting Bracket

12-Port Top or Bottom Cable Exit

Bottom Cable Exit
Top Cable Exit
ARIA Access Terminal (AAT)

Outdoor Enclosures

Accessories

12-Port Wall-Mounting Kit
P/N: AAT-WM

12-Port Pole-Mounting Kit
P/N: AAT-PM

12-Port Aerial-Mounting Kit
P/N: AAT-AM

Part Number

ARIA Access Terminal (AAT)

12-Port Wall-Mounting Kit
P/N: AAT-WM

12-Port Pole-Mounting Kit
P/N: AAT-PM

12-Port Aerial-Mounting Kit
P/N: AAT-AM

Part Number

AAT- - - - - - -

1. Fiber Count
XX = XX Ports

2. Splitter
NS = No Splitter
SP = Splitter*  
*Available in 2, 4, or 8 port configurations

3. Output FBG
Leave Blank for No FBG
FBG = 1650nm Fiber Bragg Grating

4. Input Type
AI = Adapter Input
FD = Flat Drop Cable
TF = Toneable Flat Drop Cable

5. Cable End
Leave Blank for No Cable
S = Stub
C = Connectorized

6. Cable Length
Leave Blank for No Cable
XXXF = XXX Feet
XXXM = XXX Meters

7. Cable Exit Direction
UP = Up
DN = Down

ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity*

(925) 447-7500
sales@ariatech.com
www.ariatech.com
Flexible Access Terminal (FAT)

Outdoor Enclosures

The Flexible Access Terminal (FAT) is an IP68 rated weatherproof terminal enclosure that can provide up to 12 ports of connectivity at any network access point.

Connectivity is provided via SC/APC H-Connectors using a splitter. FBG configurations are available.

The environmentally protected connectors and drop assemblies allow for fast and easy installation of the subscriber drop.

The FAT’s flexibility, reliability, and compact footprint provides fast and simple deployment within a network.

Features

• Compact environmentally sealed IP68 rated weatherproof design supports placement above or below grade
• Pedestal, wall, pole, and aerial mount capability supports use in a variety of network applications
• Flexible configurations provide maximum scalability across multiple services classes
• 12 port terminal capacity
• Terminal ports are sealed with airtight and watertight caps until connectivity is needed
• Meets Telcordia GR-771 (aerial weathertight closure), Telcordia GR-326 Issue 4, and IP68 requirements
• Connectors are 100% tested for insertion loss, return loss, and endface quality

H-Connector Compatibility

IP68 Rated

Solid Particle Protection
IP First Digit Rating Level: 6
Totally protected against dust ingress (dust-tight).

Liquid Ingress Protection
IP Second Digit Rating Level: 8
Protected from water ingress while immersed in deep water.
## Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specifications</th>
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<tbody>
<tr>
<td>Dimensions (HxWxD) (mm)</td>
<td>145x105x50</td>
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<tr>
<td>Enclosure Material</td>
<td>Black UV Resistant Polycarbonate (PC)</td>
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<tr>
<td>Weight (lbs)</td>
<td>2.2 (1.0 kg)</td>
</tr>
<tr>
<td>Compliance and Standards</td>
<td>Telcordia GR-771, Telcordia GR-326 Issue 4, and IP68</td>
</tr>
<tr>
<td>Connector Support</td>
<td>SC/APC H-Connector</td>
</tr>
<tr>
<td>Splitter Support</td>
<td>1x2, 1x4, or 1x8</td>
</tr>
<tr>
<td>FBG Support</td>
<td>1650nm</td>
</tr>
<tr>
<td>Fiber Type</td>
<td>Singlemode G.657.A1 Bend Insensitive</td>
</tr>
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</table>

### Splitter Specifications

<table>
<thead>
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<th>Parameter</th>
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<th>1x8</th>
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<tr>
<td>Insertion Loss (dB)</td>
<td>3.8</td>
<td>7.2</td>
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<td>0.8</td>
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<tr>
<td>Operating Wavelength (nm)</td>
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<td>1260~1650</td>
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</tr>
<tr>
<td>Fiber Type</td>
<td>Singlemode G.657.A1 Bend Insensitive</td>
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<td></td>
</tr>
<tr>
<td>Polarization Dependent Loss (dB)</td>
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<td></td>
<td>0.20</td>
</tr>
<tr>
<td>Return Loss (dB)</td>
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<td>50</td>
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</tr>
<tr>
<td>Directivity (dB)</td>
<td></td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>Wavelength Dependent Loss (dB)</td>
<td></td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>Temperature Stability (dB)</td>
<td></td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>Operating &amp; Storage Temperature (°C)</td>
<td></td>
<td>-40~+85</td>
<td></td>
</tr>
</tbody>
</table>

### Part Number

**FAT**-

1. Fiber Count
   - **XX** = **XX** Ports

2. Splitter
   - **NS** = No Splitter
   - **SP** = Splitter*
   *Available in 2, 4, or 8 port configurations

3. Output FBG
   - Leave Blank for No FBG
   - FBG = 1650nm Fiber Bragg Grating

4. Cable Type
   - **TP** = Armored TPU Cable
   - **NT** = Non-Armored TPU Cable
   - **FD** = Flat Drop Cable
   - **TF** = Toneable Flat Drop Cable

5. Input Type
   - **S** = Stub
   - **C** = Connectorized

6. Cable Length
   - Leave Blank for No Cable
   - **XXXF** = **XXX** Feet
   - **XXXM** = **XXX** Meters

ARIA TECHNOLOGIES, INC.  
Fiber Optic Connectivity™

(925) 447-7500  
sales@ariatech.com  
www.ariatech.com
Overview

The ARIA 5RU Swingout Cabinet is an outdoor rated cabinet with a lockable 19" rack that articulates for enhanced access.

The rack features 10-32 threaded fasteners.

The inside of the cabinet features cable tie down plates in various locations for ease of fiber management.

The cabinet features a copper bus bar for grounding and support for mounting an ARIA LGX Mini Wall mount.

NEMA 3 rating provides dust & water ingress protection.

The fan cooling system features a thermostat, 3-position terminal block, and quick disconnect connectors.

Dual knockouts for cable entry are located on the bottom, left and right sides of the cabinet.

Features

- 5RU swingout rack supports mounting of rackmount panels
- Wall-mount or H-frame mountable
- Two thermally activated 100 CFM fans inside removable roof facilitates heat dissipation
- Bugscreen backed louvers provide ventilation
- Lance plates organize & manage cables
- Dual knockouts support cables of various sizes
- Robust gasketed door with 3-point latch, piano hinge, and wind stop bracket

Specifications

<table>
<thead>
<tr>
<th>Dimensions (Inches)</th>
<th>36.12 x 29 x 14 (HxWxD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal Swingout Rack Size</td>
<td>5RU</td>
</tr>
<tr>
<td>Cooling</td>
<td>Dual 100CFM Fans</td>
</tr>
<tr>
<td>Mounting</td>
<td>Wall or H-Frame Mount</td>
</tr>
<tr>
<td>Hardware</td>
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<td>Left Side Cable Entry</td>
<td>(2) 1.375” or 2.468”</td>
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<td>Openings</td>
<td>Dual Knockouts</td>
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<td>Right Side Cable Entry</td>
<td>(2) 1.375” or 2.468”</td>
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<td>Openings</td>
<td>Dual Knockouts</td>
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<td>Bottom Cable Entry</td>
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<tr>
<td>Part Number</td>
<td>CAB-5RU-SO</td>
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Unistrut H-Frame Mounting Brackets

The ARIA 5RU Swingout Cabinet is an outdoor rated cabinet with a lockable 19" rack that articulates for enhanced access.

The rack features 10-32 threaded fasteners.

The inside of the cabinet features cable tie down plates in various locations for ease of fiber management.

The cabinet features a copper bus bar for grounding and support for mounting an ARIA LGX Mini Wall mount.

NEMA 3 rating provides dust & water ingress protection.

The fan cooling system features a thermostat, 3-position terminal block, and quick disconnect connectors.

Dual knockouts for cable entry are located on the bottom, left and right sides of the cabinet.
5RU Swingout Cabinet
Outdoor Enclosures

**Interior**

- Roof
- (2) Screws hold the roof to the cabinet
- (2) Studs with locknuts to lock rack
- (2) Quarter turn latches to secure rack
- 5RU swingout rack with 10-32 thread
- Bridge lances for cable management
- (2) Side air filters
- (11) 1.375” or 2.468” dual knockouts
- (4) Hex bolts, sealing washers, and lock nuts attaching the unistrut H-frame mounting brackets
- Grounding stud with terminal on outside face
- Door alarm switch
- Door alarm
- Door grounding stud
- Door hold open bracket. Lift up to disengage.
- Gasketed door
- Alarm and fan cables with blue (+) and brown (-) terminals
- Optional Mini Wallmount
- Copper bus bar
- Door air filter

**Top Interior**

- 5RU swingout rack with 10-32 thread
- Bridge lances for cable management
- (2) Side air filters
- (11) 1.375” or 2.468” dual knockouts
- (4) Hex bolts, sealing washers, and lock nuts attaching the unistrut H-frame mounting brackets
- Grounding stud with terminal on outside face
- Door alarm switch
- Door alarm
- Door grounding stud
- Door hold open bracket. Lift up to disengage.

**Top Exterior with Roof Removed**

- Thermostat turns on the fans on at ≥30°C
- (2) 48V 0.5A fans
- Terminal block
- Alarm and fan cables
- Mini Wall-mount Support
- Door alarm
- Door
- (6) Screws hold the roof to the cabinet

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ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity™

(925) 447-7500
sales@arieotech.com
www.arieotech.com
Splice Entry Closure (OSEC) Series

Overview

Splice Entry Closure (OSEC) Series Wallmount Enclosures are splice only cabinets that come in a variety of sizes and configurations.

OSECs can be installed in a building entrance facility or an outside plant vault as a cable pull box and/or a cable splice enclosure.

These panels allow the user to sort and organize the splicing of pre-terminated (stubbed) riser cables from fiber patch panels to outside plant trunk cables at a building entrance.

OSEC cabinets are dust proof, water resistant, and constructed of aluminum, with a durable powder coated finish.

The full size gasketed door offers maximum access to the enclosure interior during installation and service.

Features

- Cable entry holes feature protective removable caps
- OSEC 4 and OSEC 8 drop-down door serves as a work table
- Organize and manage optical fiber splices between outside plant and indoor cable routed to cross-connect equipment.
- Wall or unistrut mountable
- Corrosion resistant aluminum construction, heavy-duty door with gasket, and robust hinges and latches protect fiber
- Six position grounding block, strain relief lugs, and fiber management radius guides
- Support for splice tray platforms or sliding splice trays with individual access to each splice tray
Alternate Splice Tray Platform Mounting System

Standard format splice trays can be attached to a platform using velcro and/or a machine screw and retainer nut.

To attach a platform, simply align it with the enclosure backplate and slide it into position.
Splice Entry Closure (OSEC) Series

Splice Enclosures

OSEC 4

Specifications

<table>
<thead>
<tr>
<th>Dimensions (Inches)</th>
<th>13.7 x 21.4 x 11.0 (HxWxD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sliding Splice Tray</td>
<td></td>
</tr>
<tr>
<td>Capacity</td>
<td>4 splice trays:</td>
</tr>
<tr>
<td></td>
<td>864 fibers mass fusion or</td>
</tr>
<tr>
<td></td>
<td>192 fibers single fusion</td>
</tr>
<tr>
<td>Splice Tray Platform</td>
<td></td>
</tr>
<tr>
<td>Capacity</td>
<td>8 splice trays:</td>
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<tr>
<td></td>
<td>768 fibers mass fusion or</td>
</tr>
<tr>
<td></td>
<td>384 fibers single fusion</td>
</tr>
<tr>
<td>Cable Entry Openings</td>
<td>(4) 1.5” x 2.7”, (14) 1.2”, and (6) 1.5”</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Aluminum</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Gray Powder Coat</td>
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<tr>
<td>Weight (Empty) (lbs)</td>
<td>12.5</td>
</tr>
<tr>
<td>Additional Features</td>
<td>Horseshoe-shaped openings for mid-span access</td>
</tr>
</tbody>
</table>

Splice Tray Platform Configurations

This enclosure supports up to 4 splice trays when configured with 4 splice trays platforms and 1 splice tray per platform

This enclosure supports up to 6 splice trays when configured with 2 splice trays platforms and 3 splice tray per platform

This enclosure supports up to 8 splice trays when configured with 2 splice trays platforms and 4 splice trays per platform
Splice Entry Closure (OSEC) Series
Splice Enclosures

OSEC 8

Specifications

<table>
<thead>
<tr>
<th>Dimension (Inches)</th>
<th>19.1 x 26.1 x 11.1 (HxWxD)</th>
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</thead>
<tbody>
<tr>
<td>Sliding Splice Tray Capacity</td>
<td>8 splice trays: 1728 fibers mass fusion or 384 fibers single fusion</td>
</tr>
<tr>
<td>Splice Tray Platform Capacity</td>
<td>16 splice trays: 1536 fibers mass fusion or 768 fibers single fusion</td>
</tr>
<tr>
<td>Cable Entry Openings</td>
<td>(4) 1.5” x 2.7”, (16) 1.2”, and (6) 1.5”</td>
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<tr>
<td>Material</td>
<td>1.5mm Thick Aluminum</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Gray Powder Coat</td>
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<tr>
<td>Weight (Empty) (lbs)</td>
<td>27.0</td>
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<tr>
<td>Additional Features</td>
<td>Horseshoe-shaped openings for mid-span access and removable door</td>
</tr>
</tbody>
</table>

Splice Tray Platform Configurations

This enclosure supports up to 8 splice trays when configured with 8 splice trays platforms and 1 splice tray per platform

This enclosure supports up to 12 splice trays when configured with 4 splice trays platforms and 3 splice tray per platform

This enclosure supports up to 16 splice trays when configured with 4 splice trays platforms and 4 splice trays per platform
Splice Entry Closure (OSEC) Series

OSEC 12

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td><strong>Dimensions (Inches)</strong></td>
<td>22.0 x 20.0 x 8.8 (HxWxD)</td>
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<tr>
<td><strong>Sliding Splice Tray Capacity</strong></td>
<td>12 splice trays: 2592 fibers mass fusion or 576 fibers single fusion</td>
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<tr>
<td><strong>Splice Tray Platform Capacity</strong></td>
<td>24 splice trays: 2304 fibers mass fusion or 1152 fibers single fusion</td>
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<tr>
<td><strong>Cable Entry Openings</strong></td>
<td>(1) 0.88”, (6) 1.25”, and (6) 1.5”</td>
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<tr>
<td><strong>Material</strong></td>
<td>1.5mm Thick Aluminum</td>
</tr>
<tr>
<td><strong>Material Finish</strong></td>
<td>White Powder Coat</td>
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<tr>
<td><strong>Weight (Empty) (lbs)</strong></td>
<td>20.5</td>
</tr>
<tr>
<td><strong>Additional Features</strong></td>
<td>Removable door with document holder and mountable in a 23” rack</td>
</tr>
</tbody>
</table>

Splice Tray Platform Configurations

- Closed
- Sliding Splice Tray Configuration
- Splice Tray Platform Configuration

This enclosure supports up to 12 splice trays when configured with 12 splice trays platforms and 1 splice tray per platform

This enclosure supports up to 18 splice trays when configured with 6 splice trays platforms and 3 splice tray per platform

This enclosure supports up to 24 splice trays when configured with 6 splice trays platforms and 4 splice trays per platform

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### Splice Entry Closure (OSEC) Series

#### Splice Enclosures

**OSEC 12 SLR**

- **Closed**
- **Sliding Splice Tray Configuration**
- **Splice Tray Platform Configuration**

#### Specifications

<table>
<thead>
<tr>
<th></th>
<th>Dimensions (Inches)</th>
<th>21.0 x 17.0 x 9.65 (HxWxD)</th>
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<tbody>
<tr>
<td>Sliding Splice Tray Capacity</td>
<td>12 splice trays:</td>
<td>2592 fibers mass fusion or 576 fibers single fusion</td>
</tr>
<tr>
<td>Splice Tray Platform Capacity</td>
<td>24 splice trays:</td>
<td>1728 fibers mass fusion or 576 fibers single fusion</td>
</tr>
<tr>
<td>Cable Entry Openings</td>
<td>(12) 1.5”, (8) 1.25”, and (6) 1.5” x 2.7”</td>
<td></td>
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<tr>
<td>Material</td>
<td>1.5mm Thick Aluminum</td>
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<tr>
<td>Material Finish</td>
<td>Gray Powder Coat</td>
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<tr>
<td>Weight (Empty) (lbs)</td>
<td>20.5</td>
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<tr>
<td>Additional Features</td>
<td>Mountable in a 19” or 23” rack and removable door with document holder</td>
<td></td>
</tr>
</tbody>
</table>

#### Splice Tray Platform Configurations

- This enclosure supports up to 12 splice trays when configured with 12 splice trays platforms and 1 splice tray per platform
- This enclosure supports up to 18 splice trays when configured with 6 splice trays platforms and 3 splice tray per platform
- This enclosure supports up to 24 splice trays when configured with 6 splice trays platforms and 4 splice trays per platform
# Splice Entry Closure (OSEC) Series

## Splice Enclosures

### OSEC 16

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
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<tr>
<td><strong>Dimensions (Inches)</strong></td>
<td>22.0 x 21.0 x 11.4 (HxWxD)</td>
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<tr>
<td><strong>Sliding Splice Tray</strong></td>
<td>16 Splice Trays: 3,456 Fibers Mass Fusion or 768 Fibers Single Fusion</td>
</tr>
<tr>
<td><strong>Splice Tray Platform</strong></td>
<td>16 Splice Trays: 1,536 Fibers Mass Fusion or 768 Fibers Single Fusion</td>
</tr>
<tr>
<td><strong>Cable Clamp Support</strong></td>
<td>(8) 12A3 Cable Clamps</td>
</tr>
<tr>
<td><strong>Compression Fitting Support</strong></td>
<td>(10) Large and (4) Extra Large Compression Fittings</td>
</tr>
<tr>
<td><strong>Microduct Support</strong></td>
<td>(6) Microduct Manifolds</td>
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<tr>
<td><strong>Material</strong></td>
<td>1.5mm Thick Aluminum</td>
</tr>
<tr>
<td><strong>Material Finish</strong></td>
<td>White Powder Coat</td>
</tr>
<tr>
<td><strong>Weight (Empty) (lbs)</strong></td>
<td>20.5</td>
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<tr>
<td><strong>Mounting Support</strong></td>
<td>23&quot; Rack &amp; Wall</td>
</tr>
<tr>
<td><strong>Additional Features</strong></td>
<td>Mountable in a 23&quot; rack, document holder, and (4) removable cable entry plates with (2) cable tie-down or 12A3 cable clamp brackets</td>
</tr>
</tbody>
</table>

### Cable Securement Options

- Compression Fittings
- Cable Ties
- 12A3 Cable Clamps
Overview
- Channel for routing fiber from the top to the bottom of the enclosure
- 12A3 cable clamp for cable securement
- Compression fittings for dust ingress prevention and cable securement
- Fiber passover plate if routing fiber from the left to the right side of the panel
- 12AT2 cable clamp for cable securement
- Sliding splice trays for easy fiber access
- Door latches
- Mounting bracket for: 19" racks, 23" racks, or wall mounting
- Grab handle for easy lifting
- Padlock hasp
- Grommet for midspan cable entry
- Cap for dust ingress prevention
- Radii guides for cable slack management
- Rings for fiber slack management
- Strain relief lug attachment point
- Gasketed door for dust ingress prevention
- Document holder for port identification and product information
- Fiber management rings guide fiber from slack storage area to splice trays
- Support for lock
- Lift door upward to remove it from the chassis hinge for easy access to the panel interior
- Brush material for dust ingress prevention and versatile cable entry
- Grounding bar for cable armor grounding
- Ring for fiber slack management

Specifications

<table>
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<tr>
<th>Feature</th>
<th>Specification</th>
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<tr>
<td>Dimensions (Inches)</td>
<td>33.0 x 17.0 x 9.6 (HxWxD)</td>
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<tr>
<td>Single Fiber Capacity</td>
<td>864 (18 Sliding Splice Trays)</td>
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<tr>
<td>Ribbon Fiber Capacity</td>
<td>3,456 (16 Sliding Splice Trays)</td>
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<tr>
<td>Cable Entry Openings</td>
<td>(8) 2”x7” Brushed Openings With Cover Plates</td>
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<tr>
<td>Cable Clamp Support</td>
<td>(4) 12A3 or (6) 12AT2 at Each Cable Entry Opening</td>
</tr>
<tr>
<td>Compression Fitting Support</td>
<td>(3) Compression Fittings at Each Cable Entry Opening</td>
</tr>
<tr>
<td>Microduct Manifold Support</td>
<td>(2) Microduct Manifolds at Each Cable Entry Opening</td>
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<tr>
<td>Material</td>
<td>1.5mm Thick Aluminum</td>
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<td>Material Finish</td>
<td>Gray Powder Coat</td>
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<td>Weight (Empty) (lbs)</td>
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<tr>
<td>Mounting Support</td>
<td>19” Rack, 23” Rack, &amp; Wall</td>
</tr>
<tr>
<td>Additional Features</td>
<td>Fiber slack storage in bottom compartment, brushed cable entry openings with cable clamp support, and grab handles</td>
</tr>
</tbody>
</table>

Versatile and Easy to Use Cable Entry
Splice Enclosures

Accessories

48 Fiber Single Fusion Sliding Splice Tray (P/N: LT1B-F/F)
216 Fiber Mass Fusion Splice Tray (P/N: LT1B-MF/MF)
Splice Tray Platform with Velcro for OSEC 4/8/12/12SLR/16 (P/N: OSEC-TRAY)
Screw and nut to attach one splice tray per platform* (P/N: 1TRAY-OSEC-S)
Screw and nut to attach up to 4 splice trays per platform* (P/N: 4TRAY-OSEC-S)

12 Fiber Single Fiber Fusion Splice Tray (4”x6”) (P/N: 4612CWMP)
24 Fiber Single Fusion Splice Tray (4”x8”) (P/N: 4824CWMP)
72 Fiber Mass Fusion Splice Tray (4”x8”) (P/N: 4872RCWM)
Grounding and Bonding Kit (P/N: GB-KIT)

12 Fiber Single Fiber Fusion Splice Tray (4”x6”) (P/N: 4612CWMP)
24 Fiber Single Fusion Splice Tray (4”x8”) (P/N: 4824CWMP)
72 Fiber Mass Fusion Splice Tray (4”x8”) (P/N: 4872RCWM)
Grounding and Bonding Kit (P/N: GB-KIT)

Medium Compression Fitting for OSEC 4/8/12/12SLR. Supports .29”-.60”Ø Cable (P/N: CF-MD)
Three Slot Flat Drop Compression Fitting with Spacers for OSEC 4/8/12/12SLR. (P/N: CF-3S-FD)
Flat Drop Compression Fitting for OSEC 4/8/12/12SLR. (P/N: N3/4”B-H1-(8.1*4.5))
Large Compression Fitting. Supports 0.59”-0.99”Ø Cable. (P/N: CF-LG)
Extra Large Compression Fitting for OSEC 16. Supports 1”-1.25”Ø Cable. (P/N: CF-XL)

Padlock Kit for the Door Latch Assembly for OSEC 4/8. (P/N: O-PADLOCK-KIT)
Lock Kit for OSEC 4/8/12SLR/16SLR. (P/N: C610-S)
Microduct Manifold Supports 10 mm OD Microduct (P/N: MDM-12X-10)
Microduct Manifold Supports 8.5 mm OD Microduct (P/N: MDM-12X-8.5)
**Splice Entry Closure (OSEC) Series**

**Splice Enclosures**

### Accessories (Continued)

- **Additional Cable Clamp Attachment Bracket for OSEC 8**
P/N: OSEC8_CAB

- **Additional Cable Clamp Attachment Bracket for OSEC 16SLR**
P/N: 16SLR-CCBKCT

- **12AT2 Cable Clamp for OSEC 8/16SLR**
  Supports 0.4”-1.0”Ø Cable.
P/N: 12AT2

- **12A3 Cable Clamp for OSEC 8/16SLR**
  Supports 0.25”-1.50”Ø Cable.
P/N: 12A3L-H

### Part Number

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<th>3</th>
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</tr>
</tbody>
</table>

| **Configuration** |   |   |   |   |   |   |   |   |   |
| SL = Sliding Splice Trays |   |   |   |   |   |   |   |   |   |
| SP = Splice Tray Platform with Velcro* |   |   |   |   |   |   |   |   |   |
| SS = Splice Tray Platform with Velcro, Screw and Nut* |   |   |   |   |   |   |   |   |   |

*Not available for OSEC 16 SLR

| **Splice Tray Quantity** |   |   |   |   |   |   |   |   |   |
| Leave Blank for no Splice Trays |   |   |   |   |   |   |   |   |   |
| XX = XX Splice Trays |   |   |   |   |   |   |   |   |   |

| **Splice Tray Platform Quantity** |   |   |   |   |   |   |   |   |   |
| Leave Blank for no Splice Tray Platforms or Sliding Splice Tray |   |   |   |   |   |   |   |   |   |
| XX = XX Splice Tray Platform* |   |   |   |   |   |   |   |   |   |

*Only available with a splice tray platform configuration

| **Splice Tray Type** |   |   |   |   |   |   |   |   |   |
| Leave Blank for no Splice Trays |   |   |   |   |   |   |   |   |   |
| 48SST0 = 48-Fiber Sliding Single Fiber Splice Tray* |   |   |   |   |   |   |   |   |   |
| 216RST = 216-Fiber Sliding Ribbon fiber Splice Tray* |   |   |   |   |   |   |   |   |   |
| 12S000 = 12-Fiber Single Fiber Splice Tray** |   |   |   |   |   |   |   |   |   |
| 24S000 = 24-Fiber Single Fiber Splice Tray** |   |   |   |   |   |   |   |   |   |
| 72R000 = 72-Fiber Ribbon Fiber Splice Tray** |   |   |   |   |   |   |   |   |   |
| 24S48R = 24-Fiber Single Fiber or 48-Fiber Ribbon Fiber Splice Tray** |   |   |   |   |   |   |   |   |   |

*Only available with a sliding splice tray configuration
**Only available with a splice tray platform configuration

| **Lock** |   |   |   |   |   |   |   |   |   |
| N = No Lock |   |   |   |   |   |   |   |   |   |
| L = Lock* |   |   |   |   |   |   |   |   |   |

*Not available for OSEC 12

| **Grounding Kit** |   |   |   |   |   |   |   |   |   |
| N = No Grounding Kit |   |   |   |   |   |   |   |   |   |
| G = Grounding Kit |   |   |   |   |   |   |   |   |   |

| **Cable Clamps** |   |   |   |   |   |   |   |   |   |
| Leave Blank for No Cable Clamps |   |   |   |   |   |   |   |   |   |
| X12AT2 = X 12AT2 Cable Clamps* |   |   |   |   |   |   |   |   |   |
| X12A3 = X 12A3 Cable Clamps* |   |   |   |   |   |   |   |   |   |

*Not available for OSEC 12

| **Compression Fittings** |   |   |   |   |   |   |   |   |   |
| Leave Blank for No Compression Fittings |   |   |   |   |   |   |   |   |   |
| XMCFIT = X Medium |   |   |   |   |   |   |   |   |   |
| XFCFIT = X Flat Drop |   |   |   |   |   |   |   |   |   |
| XLCFIT = X Large |   |   |   |   |   |   |   |   |   |
| XECFIT = X Extra Large |   |   |   |   |   |   |   |   |   |
Hyperscale Splice 7K Wallmount Enclosures are ideal for ultra high density data center or head end network designs. They are used to connect OSP cables with ISP cables in building entrance facilities. These panels support 7,776-fibers when splicing ribbon fibers or 864-fibers when splicing single fibers. Hyperscale Splice 7K Enclosures feature simple and secure cable entry, easily accessible sliding splice trays, and organized fiber slack management.

**Features**

- 7,776 ribbon fiber or 864 single fiber capacity
- 18 splice tray capacity where each tray supports 48-fibers single fusion or 432-fibers mass fusion
- Sliding splice trays feature a spacious interior for slack management and a hinged quick detachable lid for easy fiber access
- Removable door features an interior document holder and lockable multipoint latch
- Compartments on the left and right sides of the splice tray store the slack needed for tray sliding
- 12A3 cable clamps and compression fittings are supported at each cable entry plate on the top and bottom sides
- 12AT2 cable clamps are supported at each grommet position on the left and right sides
- Left and right side cover plates are available for future expansion or cable passthrough
- Dedicated fiber pathways and tie down points guide and store slack loops
- Internal bare aluminum bonding plates and an external brass bonding bar for grounding
- Lightweight aluminum construction

**Specifications**

<table>
<thead>
<tr>
<th>Dimensions (Inches)</th>
<th>35.0 x 29.5 x 15.5 (HxWxD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Fiber Capacity</td>
<td>864</td>
</tr>
<tr>
<td></td>
<td>(1) 864F or (2) 432F</td>
</tr>
<tr>
<td></td>
<td>(3) 288F or (6) 144F</td>
</tr>
<tr>
<td>Ribbon Fiber Capacity</td>
<td>7,776</td>
</tr>
<tr>
<td></td>
<td>(1) 6,912F + (1) 864F</td>
</tr>
<tr>
<td></td>
<td>(2) 3,456F + (1) 864F</td>
</tr>
<tr>
<td></td>
<td>(4) 1,728F + (1) 864F</td>
</tr>
<tr>
<td></td>
<td>(9) 864F or (18) 432F</td>
</tr>
<tr>
<td></td>
<td>(27) 288F or (54) 144F</td>
</tr>
<tr>
<td>12A3 Cable Clamp Capacity</td>
<td>16 (Stock Config. Has 4 Plates That Support 4 Each)</td>
</tr>
<tr>
<td>12AT2 Cable Clamp Capacity</td>
<td>96 (16 Grommets Support 6 Each)</td>
</tr>
<tr>
<td>Large Compression Fitting Capacity</td>
<td>24 (Stock Config. Has 4 Plates That Support 6 Each)</td>
</tr>
<tr>
<td>Extra Large Compression Fitting Capacity</td>
<td>16 (Stock Config. Has 4 Plates That Support 4 Each)</td>
</tr>
<tr>
<td>Microduct Manifold Capacity</td>
<td>12 (Stock Config. Has 4 Plates That Support 3 Each)</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Aluminum</td>
</tr>
<tr>
<td>Material Finish</td>
<td>White Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>100</td>
</tr>
</tbody>
</table>
Hyperscale Splice 7K
Splice Enclosures

Overview
- 4 position 12A3 cable clamp attachment bracket (1 of 4)
- Top/Bottom Compression Fitting Entry
  - 6 position cable entry grommet (1 of 16)
- Aluminum grounding bar with fiber slack loop tie down points (1 of 2)
- 12AT2 cable clamp attachment point (1 of 96)
- Spring latch hinge to rotate or remove splice tray cover
- Removable door (1 of 2)
- Brass grounding bar
- Top fiber slack loop tie down bar
- Splice Tray Layout
- Cable entry plate with four 2.13" openings (1 of 4)
- Cable entry plate with six 1.48" openings (1 of 4)
- Cover plate (1 of 4)
- Tie down point for entrance to sliding splice tray fiber slack compartment
- Tie down point for entrance to splice tray
- Lockable multipoint latch
- Mounting hole attaches to separate wall mounting frame for easy installation (1 of 6)

Top/Bottom Compression Fitting Entry
- Top/Bottom Cable Clamp Support
  - Aluminum grounding bar with fiber slack loop tie down points
  - 4 position 12A3 cable clamp attachment bracket (1 of 4)
  - 12AT2 cable clamp attachment point (1 of 96)
  - Cover plate (1 of 4)
- Left/Right Side Cable Clamp Support
  - Tie down point for entrance to sliding splice tray fiber slack compartment
  - Tie down point for entrance to splice tray

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Hyperscale Splice 7K
Splice Enclosures

Accessories

Large Compression Fitting Supports Cable O.D.: 0.59”-0.99”
P/N: CF-LG

Extra Large Compression Fitting Supports Cable O.D.: 1.00”-1.24”
P/N: CF-XLG

Microduct Manifold Supports 10 mm OD Microduct
P/N: MDM-12X-10

Microduct Manifold Supports 8.5 mm OD Microduct
P/N: MDM-12X-8.5

12AT2 Cable Clamp for 0.4” to 1.0” Diameter Cable
P/N: 12AT2

12A3 Cable Clamp for 0.25”-1.50” Diameter Cable
P/N: 12A3L-H

Grounding and Bonding Kit
P/N: GB-KIT

Part Number

HSS7K-  -   -   -   -   -

1 Splice Tray Quantity
XRFT = Ribbon Fiber Splice Trays
XSFT = Single Fiber Splice Trays

2 Cable Clamps
Leave Blank for No Cable Clamps
X12AT2 = X 12AT2 Cable Clamps
X12A3 = X 12A3 Cable Clamps

3 Compression Fittings
Leave Blank for No Compression Fittings
XLCFIT = X Large Compression Fittings
XXLCFIT = X Extra Large Compression Fittings

4 Grounding and Bonding Kits
Leave Blank for No Grounding and Bonding Kits
XGND = Number of Grounding and Bonding Kits

5 Microduct Manifolds
Leave Blank for No Microduct Manifolds
X8.5 = X Manifolds with Support for 8.5mm OD Microduct
X10 = X Manifolds with Support for 10mm OD Microduct
Splice Enclosures

Overview
Splice AWM (SPLWM) Series Wallmount Enclosures are compact fiber splice enclosures.

The rear-hinged, 16 gauge steel, pad lockable door provides quick access to the enclosure interior.

The riser cable entrance slot accommodates most OSP cables and makes it easy to mount cable where riser cables already exist. Slack storage space behind the splice trays provides simple cable re-entry and access.

Features
- Spacious splice only wallmount enclosure allows for ample cable slack
- Multiple cable entry ports support a wide variety of cable diameters
- Easy to access and re-enter the enclosure
- Attached padlock hasp and lock kit option provides enhanced security

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>SPLWM 1</th>
<th>SPLWM 2</th>
<th>SPLWM 3</th>
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<tbody>
<tr>
<td><strong>Dimensions (Inches)</strong></td>
<td>9.0 x 14.0 x 3.4 (HxWxD)</td>
<td>9.0 x 14.0 x 3.4 (HxWxD)</td>
<td>9.0 x 14.0 x 3.4 (HxWxD)</td>
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<tr>
<td><strong>Fiber Capacity</strong></td>
<td>216 Fibers Mass Fusion or 72 Fibers Single Fusion</td>
<td>216 Fibers Mass Fusion or 72 Fibers Single Fusion</td>
<td>216 Fibers Mass Fusion or 72 Fibers Single Fusion</td>
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<tr>
<td><strong>Splice Tray Capacity</strong></td>
<td>(4) 4&quot;x6&quot; splice trays, (2) 4&quot;x7&quot; splice trays, (3) 4&quot;x8&quot; splice trays, or (4) 4&quot;x9&quot; splice trays</td>
<td>(4) 4&quot;x6&quot; splice trays, (2) 4&quot;x7&quot; splice trays, (3) 4&quot;x8&quot; splice trays, or (4) 4&quot;x9&quot; splice trays</td>
<td>(4) 4&quot;x6&quot; splice trays, (2) 4&quot;x7&quot; splice trays, (3) 4&quot;x8&quot; splice trays, or (4) 4&quot;x9&quot; splice trays</td>
</tr>
<tr>
<td><strong>Cable Entry Openings</strong></td>
<td>(8) 1.10&quot;</td>
<td>(8) 1.10&quot;</td>
<td>(8) 1.10&quot;</td>
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<tr>
<td><strong>Material</strong></td>
<td>1.5mm Thick Steel</td>
<td>1.5mm Thick Steel</td>
<td>1.5mm Thick Steel</td>
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<tr>
<td><strong>Material Finish</strong></td>
<td>White Powder Coat</td>
<td>White Powder Coat</td>
<td>White Powder Coat</td>
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<tr>
<td><strong>Weight (Empty) (lbs)</strong></td>
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<td>7.0</td>
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Splice AWM (SPLWM) Series
Splice Enclosures

SPLWM 2

Specifications

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<tr>
<th>Dimensions (Inches)</th>
<th>16.0 x 15.0 x 3.4 (HxWxD)</th>
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<tr>
<td>Fiber Capacity</td>
<td>216 Fibers Mass Fusion or</td>
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<tr>
<td></td>
<td>72 Fibers Single Fusion</td>
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<tr>
<td>Splice Tray Capacity</td>
<td>(5) 4”x6” splice trays,</td>
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<tr>
<td></td>
<td>(3) 4”x7” splice trays,</td>
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<tr>
<td></td>
<td>(4) 4”x8” splice trays,</td>
</tr>
<tr>
<td></td>
<td>(4) 5”x8” splice trays,</td>
</tr>
<tr>
<td></td>
<td>(4) 4”x9” splice trays, or</td>
</tr>
<tr>
<td></td>
<td>(4) 5”x12” splice trays</td>
</tr>
<tr>
<td>Cable Entry Openings</td>
<td>(4) 1.18” and (4) 1.50”</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Steel</td>
</tr>
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<td>Material Finish</td>
<td>White Powder Coat</td>
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<td>Weight (Empty) (lbs)</td>
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SPLWM 3

Specifications

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<th>Dimensions (Inches)</th>
<th>16.0 x 15.0 x 6.2 (HxWxD)</th>
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<tr>
<td>Fiber Capacity</td>
<td>432 Fibers Mass Fusion or</td>
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<td>144 Fibers Single Fusion</td>
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<tr>
<td>Splice Tray Capacity</td>
<td>(7) 4”x6” splice trays,</td>
</tr>
<tr>
<td></td>
<td>(4) 4”x7” splice trays,</td>
</tr>
<tr>
<td></td>
<td>(6) 4”x8” splice trays,</td>
</tr>
<tr>
<td></td>
<td>(6) 5”x8” splice trays,</td>
</tr>
<tr>
<td></td>
<td>(6) 4”x9” splice trays, or</td>
</tr>
<tr>
<td></td>
<td>(6) 5”x12” splice trays</td>
</tr>
<tr>
<td>Cable Entry Openings</td>
<td>(8) 1.18” and (4) 1.50”</td>
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<tr>
<td>Material</td>
<td>1.5mm Thick Steel</td>
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<tr>
<td>Material Finish</td>
<td>White Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>15.0</td>
</tr>
</tbody>
</table>
Splice AWM (SPLWM) Series
Splice Enclosures

Hinged Splice Tray Configuration Available
Splice AWM (SPLWM) Series

Accessories

Small Compression Fitting Supports
Cable O.D.: 0.230”-0.546” for SPLWM-1
P/N: CF-SM

Medium Compression Fitting Supports
Cable O.D.: 0.29”-0.60”
P/N: CF-MD

Three Slot Flat Drop
Compression Fitting with Removable Spacers
P/N: CF-3S-FD

Flat Drop Compression Fitting
P/N: N3/4"B-H1-(8.1*4.5)
For SPLWM-2/3 P/N: CF-LG

Grounding and Bonding Kit
P/N: GB-KIT

Lock Kit
P/N: AWM-LOCK-KIT

12 Fiber Single Fusion Splice Tray
(4"x6")
P/N: 4612CWMP

24 Fiber Single Fusion Splice Tray
(4"x7") (P/N: 4724CWMPST)

72 Fiber Mass Fusion Splice Tray
(4"x7") (P/N: 4772CWMPST)

24 Fiber Single or 72F Mass Fusion Splice Tray
(5"x8") (P/N: R833F24)

24 Fiber Single Fusion Splice Tray (4"x8")
P/N: 4824CWMP

72 Fiber Mass Fusion Splice Tray (4"x8")
P/N: 4872RCWM

24 Fiber Single Fusion or 48 Fiber Mass Fusion Splice Tray (4"x9") (P/N: 4812C4RMTB)

48 Fiber Single Fusion or 96 Fiber Mass Fusion Splice Tray (5"x12")
SPLWM 2/3 (P/N: 5712CWMP48ST)

48 Fiber Single Fusion Splice Tray (5"x12") SPLWM 2/3
P/N: 5712CWMP48STX

24 Fiber Single Fusion Splice Tray (4"x8")
P/N: 4612CWMP

24 Fiber Single Fusion or 72F Mass Fusion Splice Tray (5"x8")
(P/N: R833F24)

Part Number

**SPLWM-** - - - - -

1 Enclosure
1 = SPLWM 1
2 = SPLWM 2
3 = SPLWM 3

2 Splice Tray Quantity
X = X Trays

3 Splice Tray Type
000000 = No Splice Trays
12S00R = 12-Fiber (4"x6") Single Fiber Splice Tray
24S4X7= 24-Fiber (4"x7") Single Fiber Splice Tray
4X772R = 72-Fiber (4"x7") Ribbon Fiber Splice Tray
24S4X8 = 24-Fiber (4"x8") Single Fiber Splice Tray
4X872R = 72-Fiber (4"x8") Ribbon Fiber Splice Tray
5X8SOR = 24-Fiber (5"x8") Single Fiber or 72-Fiber Ribbon Fiber Splice Tray*
24S48R = 24-Fiber (4"x9") Single Fiber or 48-Fiber Ribbon Fiber Hinged Splice Tray
48S96R = 48-Fiber (5"x12") Single Fiber or 96-Fiber Ribbon Fiber Splice Tray*
48S00R = 48-Fiber (5"x12") Single Fiber Splice Tray*

4 Lock
N = No Lock
L = Lock

5 Grounding Kit
N = No Grounding Kit
G = Grounding Kit

*SPLWM-2 and SPLWM-3 Only

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Fiber Optic Connectivity®

(925) 447-7500
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www.ariatech.com
Wallmount Module Splice (WMX) Wallmount Enclosures are a versatile and high capacity fiber optic enclosure.

The WMX can be used as a splice only panel or a panel with splice trays and a custom holder for up to 4 WDM or splitter modules.

The enclosure can be used indoors or outdoors in IP55 compliant environments.

The WMX is a feature rich and cost-effective solution for fiber optic deployments.

**Features**

- Strong and light design comprised of ABS and PC plastic material
- IP55 water-resistant design for outdoor use
- Space saving hinged splice tray and module holder design provides easy installation and maintenance access
- Integrated cable clamp for outside plant (OSP) cable retention
- Cable entry and grounding support on bottom of panel
- Accommodates both cable glands and compression fittings
- Custom key for panel entry and padlock hole provide enhanced security

**Specifications**

<table>
<thead>
<tr>
<th>Dimension (Inches)</th>
<th>13.0 x 10.25 x 5.1 (HxWxD)</th>
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<tbody>
<tr>
<td>Splicing Capacity</td>
<td>(8) 24-Fiber Splice Trays or 192 Fibers</td>
</tr>
<tr>
<td>WDM or Splitter Module Capacity</td>
<td>4 Modules</td>
</tr>
<tr>
<td>Cable Entry Openings</td>
<td>(2) 1.35&quot;, (2) 0.84, and (2) 0.66&quot; or 1.9&quot;x2.0&quot;</td>
</tr>
<tr>
<td>Material</td>
<td>PC and ABS Plastic</td>
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<tr>
<td>Material Finish</td>
<td>Light Gray</td>
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<tr>
<td>Weight (Empty) (lbs)</td>
<td>4.0</td>
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**IP55 Rated**

**Solid Particle Protection**

IP First Digit Rating Level: 5
Protected against harmful ingress of dust.

**Liquid Ingress Protection**

IP Second Digit Rating Level: 5
Protected against low pressure water jets from any direction.
Wallmount Module Splice (WMX)
Splice Enclosures

WDM Configuration

Splice Only Configuration

Internal Layout

- Fiber Slack Storage Basket (underneath splice trays)
- 24-Fiber Splice Tray
- Strap to Secure Splice Trays to Panel
- Optional WDM or Splitter Modules in Optional Holder
- Grommet for Cable Entry
- Wallmounting Hole (1 of 4)
- Fiber Management Ring
- Strain Relief Lug for Cable Strength Member
- Secure Door Fastener
- Hole for Padlock
- Cable clamp
- Grounding Support
- Bracket for Hinged Splice Tray Support

Splice Enclosures

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Wallmount Module Splice (WMX)
Splice Enclosures

Accessories

- Micro Compression Fitting Supports
  Cable O.D.: 0.064"-0.210"
P/N: CF-MICRO

- Extra Small Compression Fitting
  Supports Cable O.D.: 0.230"-0.395"
P/N: CF-XS

- Medium-Large Compression Fitting
  Supports Cable O.D.: 0.435-0.705"
P/N: CF-MEDLG

- Hex Security Screw
  Replacement for Key Lock
  PN: WMX-HEX-SEC-SCREW

- Torx Security Screw
  Replacement for Key Lock
  PN: WMX-TORX-SEC-SCREW

Part Number

WMX- - - - - - - - - -

1 Panel Configuration
SPLC = Splice Only
8WDM = 8 CH WDM Module
8DFW = 8 CH Dual Fiber WDM Module
16WD = 16 CH WDM Module
SPLT = Splitter Module

2 Number of Modules
0 = 0 Modules Installed
1 = 1 Module Included
2 = 2 Modules Included
3 = 3 Modules Included
4 = 4 Modules Included

3 Number of Splice Trays
4 = 4 Splice Trays with a Large Fiber Management Basket
8 = 8 Splice Trays with a Small Fiber Management Basket

Note: WMX enclosures come standard with 5”x8” splice trays in 24 fiber single fiber fusion configurations.

4 WDM Additional Ports
Choose up to 2 of the Following Options or Add a 0 if Using Only 1 Option
E = 1310nm (±50nm) Express Port
W = Wide (1260-1458nm) Express Port
U = Upgrade Port
T = Test Port
0 = No WDM Included

5 Mux Starting Channel
XXCH = XX Channel
XXXX = XXXX nm*
0000 = No WDM Included or Mux Needed

*20nm channel spacing

6 Demux Starting Channel
XXCH = XX Channel
XXXX = XXXX nm*
0000 = No WDM Included or Demux Needed

*20nm channel spacing

7 Splitter Configuration
XX = 1 x XX Splitter
00 = No Splitter Included

Note: For dual fiber WDM configurations with different fiber colors, duplicate this section and add DX or MX to the end to designate the fiber color for demuxing or muxing ports.

8 Fiber Length
00 = No Module
XM = X Meters

9 Fiber Diameter
000 = No Module
250 = 250μm
900 = 900μm
2MM = 2.0mm

10 Fiber Color
00 = No Module
CC = Color Coded
BL = Blue
OR = Orange
GR = Green
BR = Brown
SL = Slate
WT = White
RD = Red
BK = Black
YL = Yellow
VL = Violet
RS = Rose
AQ = Aqua

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Hyperscale Splice 20K
Splice Enclosures

Overview
Hyperscale Splice 20K Cabinets are ideal for ultra high density data center or head end network designs.

They are used to connect OSP cables with ISP cables in building entrance facilities.

These panels support 20,736-fibers when splicing ribbon fibers or 2,304-fibers when splicing single fibers.

Hyperscale Splice 20K Enclosures feature simple and secure cable entry, easily accessible sliding splice trays, and organized fiber slack management.

Features
• 20,736 ribbon fiber or 2,304 single fiber capacity
• 48 splice tray capacity where each tray supports 48-fibers single fusion or 432-fibers mass fusion
• Sliding splice trays feature a spacious interior for slack management and a hinged quick detachable lid for easy fiber access
• Removable door features an interior document holder and lockable multipoint latch
• Compartments on the left and right sides of the splice tray store the slack needed for tray sliding
• 12A3 cable clamps are supported at each cable entry plate on the top and bottom sides
• 12AT2 cable clamps are supported at each grommet position on the left and right sides and at each cable entry plate on the top and bottom sides
• Dedicated fiber pathways and tie down points guide and store slack loops
• Internal & external brass bonding bar for grounding
• Lightweight aluminum construction

Specifications

<table>
<thead>
<tr>
<th>Dimensions (Inches)</th>
<th>72 x 46 x 16 (HxWxD)</th>
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<tbody>
<tr>
<td>Single Fiber Capacity</td>
<td>2,304</td>
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<td></td>
<td>(1) 1,728F + (1) 576F</td>
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<tr>
<td></td>
<td>(2) 864F + (1) 576F</td>
</tr>
<tr>
<td></td>
<td>(5) 432F + (1) 144F</td>
</tr>
<tr>
<td></td>
<td>(8) 288F or (16) 144F</td>
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<td>Ribbon Fiber Capacity</td>
<td>20,736</td>
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<td>(3) 6,912F or (6) 3,456F</td>
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<td>(12) 1,728F or (24) 864F</td>
</tr>
<tr>
<td></td>
<td>(72) 288F or (144) 144F</td>
</tr>
</tbody>
</table>

| Top or Bottom 12A3 Cable Clamp Capacity | 12 (Stock Config. Has 3 Plates That Support 4 Each) |
| Top or Bottom 12AT2 Cable Clamp Capacity | 24 (Stock Config. Has 3 Plates That Support 8 Each) |
| Left and Right 12AT2 Cable Clamp Capacity | 288 (48 Grommets Support 6 Each) |

| Material | 1.5mm Thick Aluminum |
| Material Finish | White Powder Coat |
| Weight (Empty) (lbs) | 275 |

Splice Tray Layout
Hyperscale Splice 20K
Splice Enclosures

Overview
4 position 12A3 cable clamp attachment bracket (1 of 4)

6 position cable entry grommet (1 of 48)

Document holder

Aluminum grounding bar with fiber slack loop tie down points (1 of 2)

12A72 cable clamp attachment point (1 of 288)

Spring latch hinge to rotate or remove splice tray cover

Top fiber slack loop tie down bar

Brass grounding bar

Cable entry plate with four 2.13" openings (1 of 4)

Cable entry plate with six 1.48" openings (1 of 4)

Cover plate (1 of 4)

Tie down point for entrance to sliding splice tray fiber slack compartment

Tie down point for entrance to splice tray

Lockable multipoint latch

Mounting hole attaches to separate wall mounting frame for easy installation (1 of 6)

Removable door (1 of 2)

Left/Right Side Cable Clamp Support

Top/Bottom Cable Clamp Support

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## Accessories

- **12AT2 Cable Clamp for 0.4” to 1.0” Diameter Cable**
  - P/N: 12AT2
- **12A3 Cable Clamp for 0.25”-1.50” Diameter Cable**
  - P/N: 12A3L-H
- **Grounding and Bonding Kit**
  - P/N: GB-KIT

## Part Number

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<tr>
<th>1</th>
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<tr>
<td>XRFT</td>
<td>Ribbon Fiber Splice Trays</td>
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<td>XSFT</td>
<td>Single Fiber Splice Trays</td>
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<table>
<thead>
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<th>Cable Clamps</th>
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<tr>
<td>X12AT2 = X 12AT2 Cable Clamps</td>
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</tr>
<tr>
<td>X12A3 = X 12A3 Cable Clamps</td>
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<table>
<thead>
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<th>3</th>
<th>Grounding and Bonding Kits</th>
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<tbody>
<tr>
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<tr>
<td>XGND = Number of Grounding and Bonding Kits</td>
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<table>
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<th>Breakout Kit Configuration</th>
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<tr>
<td>XBOKIT = Breakout Kit with Support for X Fibers*</td>
<td></td>
</tr>
<tr>
<td>*Contact sales regarding cable configuration</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5</th>
<th>Breakout Kit Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leave Blank for no Breakout Kit</td>
<td></td>
</tr>
<tr>
<td>X = Number of Breakout Kits</td>
<td></td>
</tr>
</tbody>
</table>
AGX Modular Series Rackmount Panels

AGX Modular Series Rackmount Panels are available in a wide variety of sizes and configurations.

Individual panels are available in pre-term, patch only or splice only configurations or multiple panels can be secured together to achieve high fiber counts.

Typical configurations are composed of a stack of multiple termination shelves and one splice shelf.

Each fiber termination shelf is equipped with adapter panels and fanouts where the unconnectorized end of each fanout is routed from the rear of the termination shelf down to the splice shelf and into the splice organizers ready for splicing.

The unconnectorized end of each fanout is clearly identified to correspond to a termination shelf and to the connector positions within that shelf.

Features

• Industry leading fiber management supports convenient user accessibility
• Easy network build with on-bay splicing
• Enclosures can be built without cable stubs eliminating riser requirements and cost
• All panels are 17” wide and 11” deep
• Fits 19”, 23”, or ETSI frames
• AGX Rackmount Enclosures only require mounting to the network frame, reducing installation time and cost
• Modular units allow for rapid network growth with matching hardware in various configurations
• All pigtails are labeled for easy identification

Applications

• Central office frames: LGX FDF, 23-inch and 19-inch wide mount frames
• Local Area Networks (LANs)
• Controlled Environment Vaults (CEV)
• Cable TV Headend
• Enterprise
• Private Networks

Bend radius guides protect patchcords from kinks and increased attenuation
## AGX Modular Series

### Rackmount Panels

#### 4RU (7.00"

![Image of 4RU panel]

**Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rack Units</td>
<td>4</td>
</tr>
<tr>
<td>Dimensions (Inches)</td>
<td>7.00 x 17.0 x 11.0 (HxDxW)</td>
</tr>
<tr>
<td>Mounting</td>
<td>19” or 23” Frames</td>
</tr>
<tr>
<td>Material</td>
<td>2.5mm Thick Aluminum</td>
</tr>
<tr>
<td>Material Finish</td>
<td>White Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>7.0</td>
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</table>

**Patch Only**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adapter Plate Capacity</td>
<td>12</td>
</tr>
<tr>
<td>Patch Fiber Capacity</td>
<td>144 (SC) or 288 (LC)</td>
</tr>
</tbody>
</table>

**Splice Only**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Splice Tray Capacity</td>
<td>6</td>
</tr>
<tr>
<td>Single Fiber Capacity</td>
<td>288 Fibers</td>
</tr>
<tr>
<td>Ribbon Fiber Capacity</td>
<td>1,296 Fibers or 108 Ribbons</td>
</tr>
<tr>
<td>Notes</td>
<td>Small Slack Storage Space</td>
</tr>
</tbody>
</table>

#### 5RU (8.75"

![Image of 5RU panel]

**Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rack Units</td>
<td>5</td>
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<tr>
<td>Dimensions (Inches)</td>
<td>8.75 x 17.0 x 11.0 (HxDxW)</td>
</tr>
<tr>
<td>Mounting</td>
<td>19” or 23” Frames</td>
</tr>
<tr>
<td>Material</td>
<td>2.5mm Thick Aluminum</td>
</tr>
<tr>
<td>Material Finish</td>
<td>White Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>7.5</td>
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**Patch Only**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adapter Plate Capacity</td>
<td>12 (Non-LGX)</td>
</tr>
<tr>
<td>Patch Fiber Capacity</td>
<td>144 (SC) or 288 (LC)</td>
</tr>
<tr>
<td>Notes</td>
<td>Longer adapter plates enhance connector access</td>
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</table>

**Splice Only**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Splice Tray Capacity</td>
<td>6</td>
</tr>
<tr>
<td>Single Fiber Capacity</td>
<td>288 Fibers</td>
</tr>
<tr>
<td>Ribbon Fiber Capacity</td>
<td>1,296 Fibers or 108 Ribbons</td>
</tr>
</tbody>
</table>
AGX panels feature a plexiglass front door with a front and rear facing ID chart Holder.

**Accessories**

- **12AT2 Cable Clamp**
  - for 0.4” to 1.0” Diameter Cable
  - P/N: 12AT2-SRE-W

- **12A3 Cable Clamp**
  - for 0.25”-1.50” Diameter Cable
  - P/N: 12A3L-H

- **Grounding and Bonding Kit**
  - P/N: GB-KIT

- **Flushmount Brackets for 7.00” Shelf**
  - P/N: LGX7INFMB

- **Flushmount and Strain Relief Bracket Kit for 7.00” Shelf in a Fiber Distribution Frame**
### AGX Modular Series

**Rackmount Panels**

#### Part Number

<table>
<thead>
<tr>
<th>AGX-</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
</tr>
</thead>
</table>

1. **Patch Shelf**
   - 0 = Splice Only
   - 4 = 4RU Patch Shelf
   - 5 = 5RU Patch Shelf

*Only available with bare ribbon pigtail when used as a standalone panel with 24 port LC adapter plates

2. **Patch Shelf Quantity**
   - 0 = Splice Only
   - X = X Shelves

3. **Adapter Plate Type**
   - 00 = Unloaded or Splice Only
   - 06 = 6 Port (SC/FC/ST)*
   - 08 = 8 Port (SC/FC/ST)*
   - 12 = 12 Port (SC/LC/FC/ST)
   - 24 = 24 Port (LC)

*Not available for 8.75" patch shelves

4. **Adapter Plate Quantity for Each Patch Shelf**
   - 00 = 0 Plates or Splice Only
   - XX = XX Plates (Up to 12)

5. **Adapter Type**
   - SC = SC
   - LC = LC
   - FC = FC
   - ST = ST
   - 00 = Unloaded or Splice Only

6. **Polish Type**
   - U = Singlemode UPC
   - A = Singlemode APC*
   - M = Multimode UPC
   - 0 = Unloaded or Splice Only

*Unavailable for ST

7. **Fiber Type**
   - 0 = Unloaded or Splice Only
   - S = SM 9/125μm G.652.D
   - B = SM 9/125μm Bend Insensitive G.657.A1
   - 1 = MM 62.5/125μm OM1
   - 2 = MM 50/125μm OM2
   - 3 = MM 50/125μm OM3
   - 4 = MM 50/125μm OM4

8. **Splice Shelf**
   - 0 = Patch Only or Pre-Term
   - 3 = 3RU Splice Shelf
   - 4 = 4RU Splice Shelf
   - 5 = 5RU Splice Shelf

9. **Splice Shelf Quantity**
   - 0 = Patch Only or Pre-Term
   - X = X Shelves

10. **Stub Cable Construction**
    - Leave Blank for No Stub
    - D = Distribution (I or X)
    - B = Breakout (X)
    - M = Micro Round (I, X, or O)
    - L = Loose Tube (X or O)
    - R = Ribbon (I, X, or O)
    - F = Flat Drop (Up to 24F) (O)

   (I) = Indoor Only
   (X) = Indoor/Outdoor Only
   (O) = Outdoor Only

11. **Stub Jacket Type**
    - Leave Blank for No Stub
    - Choose 1 Option for Each Feature:
    - I = Indoor or X = I/O or O = Outdoor
    - R = OFNR or P = OFNP or L = LSZH*
    - N = Non-Armored or A = Armored*

*Leave Blank for Outdoor Cable

12. **Stub Length**
    - Leave Blank for No Stub
    - Add -PE for a Pulling Eye
    - XXXF = XXX Feet
    - XXXM = XXX Meters

13. **Stub Direction**
    - Leave Blank for No Stub
    - LR = Downward on the Right
    - LL = Downward on the Left
    - UR = Upward on the Right
    - UL = Upward on the Left

---

**ARIA TECHNOLOGIES, INC.**
*Fiber Optic Connectivity*

(925) 447-7500
sales@ariatech.com
www.ariatech.com
Removable Drawer (RDR) Series Rackmount Panels are available in 1RU, 2RU, or 4RU formats with each providing a different amount of space to maneuver and store fibers. They feature a unique removable sliding tray which permits working at a comfortable level.

RDR panels are supplied fully loaded with adapter plates, pigtails, splice trays, and mounting brackets for 19”-23” racks. Recessed or flush mount brackets are available for 1RU enclosures.

The sliding tray features radius guides to secure slack and prevent kinks and the fiber pigtails are managed at the proper curvature to prevent attenuation. The sliding tray design increases component accessibility due to the locking mechanism for the tray being at the front of the panel.

ARIA RDR Series enclosures accept LGX type adapter plates. 2RU and 4RU size enclosures accept LGX type cassettes supporting a wide range WDMs, splitters, and couplers. 1RU size enclosures will accept LGX type cassettes if their radius guides are removed or when they are ordered with the Cassette Ready option.

Removable lids and doors ease component installation. The 1RU and 2RU front lid features a cutout that provides enhanced connector access and visibility.

### Specifications

<table>
<thead>
<tr>
<th>Rack Units</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>1.75 x 17.0 x 14.0 (HxWxD)</td>
</tr>
<tr>
<td>Adapter Plate Capacity</td>
<td>3</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>36 (SC) or 72 (LC) (Ribbon)</td>
</tr>
<tr>
<td>Mounting</td>
<td>19” or 23” Frames</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Steel and Aluminum</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Dark &amp; Light Gray Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>9.5</td>
</tr>
<tr>
<td>Options</td>
<td>Cassette Ready</td>
</tr>
</tbody>
</table>
Removable Drawer (RDR) Series

Rackmount Panels

### 2RU RDR Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rack Units</td>
<td>2</td>
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<tr>
<td>Dimensions (Inches)</td>
<td>3.50 x 17.0 x 14.0 (HxWxD)</td>
</tr>
<tr>
<td>Adapter Plate Capacity</td>
<td>6</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>72 (SC) or 144 (LC) (Ribbon)</td>
</tr>
<tr>
<td>Mounting</td>
<td>19” or 23” Frames</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Steel and Aluminum</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Dark &amp; Light Gray Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>10.5</td>
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</table>

### 4RU RDR Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rack Units</td>
<td>4</td>
</tr>
<tr>
<td>Dimensions (Inches)</td>
<td>7.00 x 17.0 x 17.0 (HxWxD)</td>
</tr>
<tr>
<td>Adapter Plate Capacity</td>
<td>12</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>144 (SC) or 288 (LC) (Ribbon)</td>
</tr>
<tr>
<td>Mounting</td>
<td>19” or 23” Frames</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Steel and Aluminum</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Dark &amp; Light Gray Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>17.5</td>
</tr>
<tr>
<td>Additional Features</td>
<td>Threaded posts with strap to</td>
</tr>
<tr>
<td></td>
<td>secure splice trays and jumper</td>
</tr>
<tr>
<td></td>
<td>management rings</td>
</tr>
<tr>
<td>Options</td>
<td>Rodent resistant, 24-position</td>
</tr>
<tr>
<td></td>
<td>cassette only</td>
</tr>
</tbody>
</table>

ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity™

(925) 447-7500
sales@ariatech.com
www.ariatech.com
Latching, Sliding, and Removable Tray System

A spring latch at the front of the sliding tray when lifted permits the tray to slide forward or backward. The sliding tray locks in the forward position and provides access to the splice trays and connectors for splicing, cleaning, and testing. A spring latch at the rear of the tray when lifted allows the sliding tray to be removed. The tray can be removed and brought to a comfortable level on a table or workstation for easy access to the splice trays and connectors.

Jumper Management

1RU and 2RU panels feature cutouts below the adapters to support easy connector removal and tie down locations on the front of the tray.

Jumper Bend Radius

4.0” of space between the adapter plate and door provides ample room for proper patchcord bend radius even with an attenuator connected.

Cable Strain Relief

Top or bottom cable entry is supported. Attach the strain relief bracket in the desired orientation and secure the cable jacket.

1RU Cassette Ready Option

Standard 1RU 14” RDR

Cassette Ready 1RU 14” RDR
Removable Drawer (RDR) Series

Rackmount Panels

4RU 24-Position Cassette Only Option

Front and rear partitions provide support for 24 total cassettes

4RU Rodent Resistant Option

The front and rear side cable entry openings are protected from rodent entry with grommeted plates

Optional 12AT2 Cable Clamp Accessory

2RU RDR Loaded 72-Fiber LC/APC

4RU RDR Loaded 288-Fiber LC/UPC
Removable Drawer (RDR) Series

Accessories

Flush Mount Brackets for 1RU
P/N: 1RU-UNIV-FMB-G

Strain Relief Bracket
P/N: STD-SRB-KIT

Extended Strain Relief Bracket
P/N: EX-SRB-KIT

L-Bracket for 1RU Sliding Tray
P/N: 1RU-TRAY-L-BRACKET

12AT2 Cable Clamp for 0.4” to 1.0” Diameter Cable
P/N: 12AT2

12A3 Cable Clamp for 0.25”-1.50” Diameter Cable
P/N: 12A3L-H

Grounding Kit
P/N: RM-GROUND-KIT
### Removable Drawer (RDR) Series

**Rackmount Panels**

#### Part Number

<table>
<thead>
<tr>
<th>Option</th>
<th>Adapter Type</th>
<th>Splice Trays</th>
<th>Enclosure</th>
<th>Adapter Plate Type</th>
<th>Polish Type</th>
<th>Pigtail</th>
<th>Fiber Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>Leave Blank for No Adapters</td>
<td>N = None</td>
<td>41 = 1RU</td>
<td>Leave Blank for No Adapters</td>
<td>U = Singlemode UPC</td>
<td>Leave Blank for No Fiber</td>
<td>S = SM 9/125μm G.652.D</td>
</tr>
<tr>
<td>CR</td>
<td>SC = SC</td>
<td>Y = Yes*</td>
<td>42 = 2RU</td>
<td>SC = SC</td>
<td>A = Singlemode APC*</td>
<td></td>
<td>B = SM 9/125μm Bend Insensitive G.657.A1</td>
</tr>
<tr>
<td>RR</td>
<td>LC = LC</td>
<td></td>
<td>74 = 4RU</td>
<td>Leave Blank for No Adapters</td>
<td>M = Multimode UPC</td>
<td></td>
<td>1 = MM 62.5/125μm OM1</td>
</tr>
<tr>
<td>CO</td>
<td>FC = FC</td>
<td></td>
<td></td>
<td>Leave Blank for No Adapters</td>
<td>*Unavailable for ST</td>
<td></td>
<td>2 = MM 50/125μm OM2</td>
</tr>
<tr>
<td></td>
<td>ST = ST</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 = MM 50/125μm OM3</td>
</tr>
<tr>
<td>*1RU Only</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4 = MM 50/125μm OM4</td>
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<tr>
<td>**4RU Only</td>
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#### Adapter Plate Quantity

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<th>Adapter Plate Quantity</th>
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<tbody>
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<td>02 = 2 Plates</td>
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<td>03 = 3 Plates</td>
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<td></td>
<td>04 = 4 Plates</td>
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<td></td>
<td>05 = 5 Plates</td>
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<tr>
<td></td>
<td>06 = 6 Plates</td>
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<tr>
<td>Leave Blank for No Adapters</td>
<td>07 = 7 Plates</td>
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<tr>
<td></td>
<td>08 = 8 Plates</td>
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<tr>
<td></td>
<td>09 = 9 Plates</td>
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<tr>
<td></td>
<td>10 = 10 Plates</td>
</tr>
<tr>
<td></td>
<td>11 = 11 Plates</td>
</tr>
<tr>
<td></td>
<td>12 = 12 Plates</td>
</tr>
</tbody>
</table>

*1RU & 2RU enclosures come standard with 4”x8” splice trays in 24 fiber single fiber fusion or 6 position ribbon fiber mass fusion configurations. 4RU enclosures come standard with 5.5”x12.0” splice trays in 36 fiber single fiber fusion or 16 position ribbon fiber mass fusion configurations.

*Leave Blank for Outdoor Cable

**Note: 3 meter pigtail length is standard**

### Adapter Plate Type

- Option 00 = No Option
- CR = Cassette Ready*
- RR = Rodent Resistant**
- CO = 24-Position Cassette Only**

*1RU Only
**4RU Only

### Enclosure

- 41 = 1RU
- 42 = 2RU
- 74 = 4RU

### Adapter Plate Type

- Leave Blank for No Adapters
- 06 = 6 Port (SC/FC/ST)
- 08 = 8 Port (SC/FC/ST)
- 12 = 12 Port (SC/LC/FC/ST)
- 24 = 24 Port (LC) (Ribbon Only)

### Polish Type

- Leave Blank for No Adapters
- U = Singlemode UPC
- A = Singlemode APC*
- M = Multimode UPC

*Unavailable for ST

### Pigtail

- Leave Blank for No Fiber
- N = No Pigtail or Pre-Term
- M = 900 μm in Mesh
- D = Distribution Style (MIC)
- R = Ribbon in Mesh

### Fiber Type

- Leave Blank for No Fiber
- S = SM 9/125μm G.652.D
- B = SM 9/125μm Bend Insensitive G.657.A1
- 1 = MM 62.5/125μm OM1
- 2 = MM 50/125μm OM2
- 3 = MM 50/125μm OM3
- 4 = MM 50/125μm OM4

### Splice Trays

- N = None
- Y = Yes*

*Leave Blank for Outdoor Cable

### Stub Cable Construction

- Leave Blank for No Stub
- D = Distribution (I or X)
- B = Breakout (X)
- M = Micro Round (I, X, or O)
- L = Loose Tube (X or O)
- R = Ribbon (I, X, or O)
- F = Flat Drop (Up to 24F) (O)

(I) = Indoor Only
(X) = Indoor/Outdoor Only
(O) = Outdoor Only

### Stub Jacket Type

- Leave Blank for No Stub
- Choose 1 Option for Each Feature:
  - I = Indoor or X = I/O or O = Outdoor
  - R = OFNR or P = OFNP or L = LSZH*
  - N = Non-Armored or A = Armored*

*Leave Blank for Outdoor Cable

### Stub Length

- Leave Blank for No Stub
- Add -PE for a Pulling Eye
- XXXF = XXX Feet
- XXXM = XXX Meters
ARIA Swing-Out Series Patch & Splice Rackmount Enclosures come in either a 1RU, 2 adapter plate capacity or a 2RU, 4 adapter plate capacity configuration.

The swing-out tray allows easy access to terminations and splicing.

Enclosure can be terminated with adapters, pigtails, or a pre-terminated stub cable.

**1RU Swingout**

- **Dimensions (Inches)**: 1.75 x 17.0 x 11.0 (HxWxD)
- **Adapter Plate Capacity**: 2
- **Fiber Capacity**: 24 (SC) or 48 (LC)
- **Mounting**: 19” or 23” Frames
- **Material**: 1.5mm Thick Steel
- **Material Finish**: Black Powdercoat
- **Weight (Empty) (lbs)**: 8.5

**Specifications**

**1RU Features Jumper Entry Grommet**

**2RU Swingout**

- **Dimensions (Inches)**: 3.5 x 17.0 x 11.0 (HxWxD)
- **Adapter Plate Capacity**: 4
- **Fiber Capacity**: 48 (SC) or 96 (LC)
- **Mounting**: 19” or 23” Frames
- **Material**: 1.5mm Thick Steel
- **Material Finish**: Black Powdercoat
- **Weight (Empty) (lbs)**: 9.5

**Specifications**
Swing-Out Series
Rackmount Panels

1RU Interior View (Lid Removed)

2RU Interior View (Lid Removed)

1RU Strain Relief Bracket Support

2RU Strain Relief Bracket Support

Accessories

Swing Out Strain Relief Bracket Kit for 1RU
P/N: SWRM-CLMP

Swing Out Strain Relief Bracket Kit for 2RU
P/N: SRB-2RUSO

ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity™

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www.ariatech.com
## Swing-Out Series
### Rackmount Panels

### Part Number

<table>
<thead>
<tr>
<th>Position</th>
<th>Description</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Enclosure</td>
<td>1 = 1RU, 2 = 2RU</td>
</tr>
<tr>
<td>2</td>
<td>Adapter Plate Type</td>
<td>06 = 6 Port (SC/FC/ST), 08 = 8 Port (SC/FC/ST), 12 = 12 Port (SC/LC/FC/ST), 24 = 24 Port (LC) (Ribbon Only)</td>
</tr>
<tr>
<td>3</td>
<td>Adapter Plate Quantity</td>
<td>1 = 1 Plate, 2 = 2 Plates, 3 = 3 Plates, 4 = 4 Plates</td>
</tr>
<tr>
<td>4</td>
<td>Adapter Type</td>
<td>SC = SC, LC = LC, FC = FC, ST = ST</td>
</tr>
<tr>
<td>5</td>
<td>Pigtail</td>
<td>N = No Pigtail or Pre-Term, M = 900 μm in Mesh, D = Distribution Style (MIC), R = Ribbon in Mesh</td>
</tr>
<tr>
<td>6</td>
<td>Fiber Type</td>
<td>S = SM 9/125μm G.652.D, B = SM 9/125μm Bend Insensitive G.657.A1, 1 = MM 62.5/125μm OM1, 2 = MM 50/125μm OM2, 3 = MM 50/125μm OM3, 4 = MM 50/125μm OM4</td>
</tr>
<tr>
<td>7</td>
<td>Splice Trays</td>
<td>N = None, Y = Yes*</td>
</tr>
<tr>
<td>8</td>
<td>Stub Cable Construction</td>
<td>Leave Blank for No Stub, D = Distribution (I or X), B = Breakout (X), M = Micro Round (I, X, or O), L = Loose Tube (X or O), R = Ribbon (I, X, or O), F = Flat Drop (Up to 24F) (O)</td>
</tr>
<tr>
<td>9</td>
<td>Stub Jacket Type</td>
<td>Leave Blank for No Stub, Choose 1 Option for Each Feature: I = Indoor or X = I/O or O = Outdoor, R = OFNR or P = OFNP or L = LSZH*</td>
</tr>
<tr>
<td>10</td>
<td>Stub Length</td>
<td>Leave Blank for No Stub, Add -PE for a Pulling Eye, XXXF = XXX Feet, XXXM = XXX Meters</td>
</tr>
</tbody>
</table>

### Notes
- Adapter Plate Type
- Adapter Plate Quantity
- Adapter Type
- Polish Type
- Fiber Type
- Splice Trays
- Stub Cable Construction
- Stub Jacket Type
- Stub Length

*Unavailable for ST*
A Series Angled 23” Patch Panel

A Series Angled 23” Patch Panels are Rackmount Panels and feature user friendly connector access, jumper management, and port identification.

144, 192, or 288 fiber configurations are available depending on the application and density required.

Panels can be supplied in a patch only configuration, pre-terminated, or with MPO connectivity in the rear.

Angled ports, management rings, and no moving parts enhance access and reliability.

**Features**
- Angled adapters provide enhanced connector accessibility and optimize jumper management.
- 144, 192, or 288 fiber capacity options available
- LC patch only, LC pre-term, or LC to MPO configurations available
- Jumper management rings keep patch cords tidy
- Integrated port identification chart holder
- Each port features numbering for easy identification

**Specifications**

<table>
<thead>
<tr>
<th>Dimensions (Inches)</th>
<th>8 x 20.5 x 14 (HxWxD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiber Capacity</td>
<td>144, 192, or 288</td>
</tr>
<tr>
<td>Configurations</td>
<td>LC Patch Only, LC with a Pre-Term, or LC to MPO</td>
</tr>
<tr>
<td>Mounting</td>
<td>23” Frames</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Steel and Al.</td>
</tr>
<tr>
<td>Material Finish</td>
<td>White Powdercoat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>13.0</td>
</tr>
</tbody>
</table>

**Fiber Capacity Options**

- 144-Fiber Configuration
- 192-Fiber Configuration
- 288-Fiber Configuration

**Front Fiber Management**

Fiber management rings organize jumpers and funnel them into rack radius guides

**Rear Fiber Management**

Bridge lances help organize cable slack. The patch only configuration also features radius guides and rings.
A Series Angled 23” Patch Panel
Rackmount Panels

Patch Only Configuration

Front

192-fiber configuration is shown with the lid removed

Rear

LC to MPO Configuration

Front

192-fiber configuration is shown with the lid removed

Rear
A Series Angled 23" Patch Panel
Rackmount Panels

288-Fiber Configuration Connector Accessibility

The Connector Grabber must be used to remove LC jumpers with duplex clips on the 288-fiber configuration

The Connector Grabber may be used for connector insertion but it is not required

Accessories

12AT2 Cable Clamp
for 0.4" to 1.0" Diameter Cable
P/N: 12AT2

12A3 Cable Clamp
for 0.25"-1.50" Diameter Cable
P/N: 12A3L-H

Grounding Kit
P/N: RM-GROUND-KIT

Strain Relief Bracket
P/N: STD-SRB-KIT

Extended Strain Relief Bracket
P/N: EX-STB-KIT

Connector Grabber
P/N: OPT SF-1

(925) 447-7500
sales@arieotech.com
www.arieotech.com
## A Series Angled 23" Patch Panel

### Rackmount Panels

#### Part Number

<table>
<thead>
<tr>
<th>A-</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
</tr>
</thead>
</table>

### Fiber Count
- 144 = 144-Fibers (144A)
- 192 = 192-Fibers (192A)
- 288 = 288-Fibers (288A)

### Configuration
- LC = LC Patch Only
- MPO = LC to MPO

### LC Polish
- LCU = LC/UPC
- LCA = LC/APC*
  - *Singlemode Only

### Fiber Type
- S = SM 9/125μm G.652.D
- B = SM 9/125μm Bend Insensitive G.657.A1
- 1 = MM 62.5/125μm OM1
- 2 = MM 50/125μm OM2
- 3 = MM 50/125μm OM3
- 4 = MM 50/125μm OM4

### Stub Jacket Type
- Leave Blank for No Stub
- Choose 1 Option for Each Feature:
  - I = Indoor or X = I/O or O = Outdoor
  - R = OFNR or P = OFNP or L = LSZH*
  - N = Non-Armored or A = Armored
  - *Leave Blank for Outdoor Cable

### Stub Length
- Leave Blank for No Stub
- Add -PE for a Pulling Eye

### Fiber Count
- XXXF = XXX Feet
- XXXM = XXX Meters

### Fiber Count
- 1 = MM 50/125μm OM1
- 2 = MM 50/125μm OM2
- 3 = MM 50/125μm OM3
- 4 = MM 50/125μm OM4

### Stub MPO Type
- Leave Blank for No Stub or Non-MPO Connector
- Choose 1 Option for Each Feature:
  - 1 = 12 or 2 = 24 Fiber Connector
  - S = Standard or E = Elite Ferrule
  - F = Female or M = Male Guide Pins
  - Choose a wiring method:
    - A = A, B = B, C = C, 1 = 1, or 2 = 2
    - SR4 = 40GBASE-SR4
    - SR10 = 100GBASE-SR10
    - 0 = Non-MPO to MPO Assembly

### Fiber Count
- 1 = MM 50/125μm OM1
- 2 = MM 50/125μm OM2
- 3 = MM 50/125μm OM3
- 4 = MM 50/125μm OM4

### Stub Breakout Type
- Leave Blank for No Stub
- 9 = 900μm (Color Coded)
- 2 = 2mm (Std. Indoor Jacket Color)
- 3 = 3mm (Std. Indoor Jacket Color)

### Stub Breakout Length
- Leave Blank for No Stub
- XXX = Length in Inches
- Typically: 18”, 24”, or 36”

### Note
- If the stub configuration requires the use of subunits, the subunits will be 8” unless specified
- Add DC to Add Duplex Clips on Non-Uniboot Connectors

### Fiber Count
- 1 = MM 50/125μm OM1
- 2 = MM 50/125μm OM2
- 3 = MM 50/125μm OM3
- 4 = MM 50/125μm OM4

### Fiber Count
- 1 = MM 50/125μm OM1
- 2 = MM 50/125μm OM2
- 3 = MM 50/125μm OM3
- 4 = MM 50/125μm OM4

### Stub Polish Type
- Leave Blank for No Stub
- U = UPC
- A = APC*
- M = PC**
- F = Flat***
- *Singlemode Only, Select for Singlemode MPOs, and Unavailable for ST
- **Multimode Only
- ***Multimode MPOs Only
FDP Series Angled 19" Patch Panel
Rackmount Panels

FDP Series Angled 19" Patch Panels are Rackmount Panels designed with connector accessibility and fiber management in mind.

FDP panels feature angled adapter plates for optimized cable management and ample space surrounding the adapters for enhanced connector accessibility.

These panels also feature vertical fiber management guides outside the jumper entry openings for improved jumper bend radius and management.

A spring latch in the front of the panel allows the tray to slide forward 2 inches for enhanced connector access.

Pre-terminated panels or panels without pigtails feature fiber management rings in the center of the panel for enhanced fiber management.

FDP panels come in a 3RU and 5RU configurations.

### 3RU Specifications

<table>
<thead>
<tr>
<th>Rack Units</th>
<th>3</th>
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<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>5.25 x 17 x 17 (HxWxD)</td>
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<tr>
<td>Adapter Plate Capacity</td>
<td>6 (FDP 3RU Type)</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>72 Fibers SC or 144 Fibers LC</td>
</tr>
<tr>
<td>Mounting</td>
<td>19” or 23” Frames</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Steel</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Gray Powdercoat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>16.0</td>
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</table>

### 5RU Specifications

<table>
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<th>Rack Units</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>8.75 x 17 x 17 (HxWxD)</td>
</tr>
<tr>
<td>Adapter Plate Capacity</td>
<td>12 (FDP 5RU Type)</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>144 Fibers SC or 288 Fibers LC</td>
</tr>
<tr>
<td>Mounting</td>
<td>19” or 23” Frames</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Steel</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Gray Powdercoat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>21.0</td>
</tr>
</tbody>
</table>
FDP Series Angled 19" Patch Panel

Pre-Terminated Configuration

LGX Cassette Adapter Accessory

The LGX Cassette Adapter replaces half of the FDP format adapter plates with LGX compatible openings for cassettes or adapter plates.

Openings allow the Cassette Adapter to hold LGX plates or cassettes

Grommets and plungers attach the LGX Cassette Adapter to the FDP adapter plate partition

Accessories

3RU LGX Cassette Adapter P/N: FDP-3RU-LGX-Cassette-Adapter
5RU LGX Cassette Adapter P/N: FDP-5RU-LGX-Cassette-Adapter
Strain Relief Bracket P/N: STD-SRB-KIT
Extended Strain Relief Bracket P/N: EX-SRB-KIT
Grounding Kit P/N: RM-GROUNDING-KIT

ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity™
(925) 447-7500
sales@ariatech.com
www.ariatech.com
## Part Number

<table>
<thead>
<tr>
<th>Enclosure</th>
<th>LGX Cassette Ready</th>
<th>Adapter Plate Quantity</th>
<th>Pigtail</th>
<th>Stub Cable Construction</th>
<th>Fiber Type</th>
<th>Splice Trays</th>
<th>Stub Jacket Type</th>
<th>Stub Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>01 = 1 Plate</td>
<td>N = No Pigtail or Pre-Term</td>
<td>Leave Blank for No Stub</td>
<td>S = SM 9/125μm G.652.D</td>
<td>N = None</td>
<td>Leave Blank for No Stub</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>02 = 2 Plates</td>
<td>M = 900 μm in Mesh</td>
<td>D = Distribution Style (MIC)</td>
<td>B = SM 9/125μm Bend Insensitive G.657.A1</td>
<td>Y = Yes*</td>
<td>Add -PE for a Pulling Eye</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>03 = 3 Plates</td>
<td>D = Distribution Style (MIC)</td>
<td>Leave Blank for No Stub</td>
<td>1 = MM 62.5/125μm OM1</td>
<td>N = None</td>
<td>XXXF = XXX Feet</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>04 = 4 Plates</td>
<td>R = Ribbon in Mesh</td>
<td>Leave Blank for No Stub</td>
<td>2 = MM 50/125μm OM2</td>
<td>Y = Yes*</td>
<td>XXXM = XXX Meters</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>05 = 5 Plates</td>
<td>Note: 3 meter pigtail length is standard</td>
<td>Leave Blank for No Stub</td>
<td>3 = MM 50/125μm OM3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>06 = 6 Plates</td>
<td></td>
<td>Leave Blank for No Stub</td>
<td>4 = MM 50/125μm OM4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>07 = 7 Plates*</td>
<td></td>
<td>Leave Blank for No Stub</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>08 = 8 Plates*</td>
<td></td>
<td>Leave Blank for No Stub</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>09 = 9 Plates*</td>
<td></td>
<td>Leave Blank for No Stub</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 = 10 Plates*</td>
<td></td>
<td>Leave Blank for No Stub</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>11 = 11 Plates*</td>
<td></td>
<td>Leave Blank for No Stub</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>12 = 12 Plates*</td>
<td></td>
<td>Leave Blank for No Stub</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>*5RU Only</td>
<td></td>
<td>Leave Blank for No Stub</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note:** 12 fibers per SC adapter plate and 24 fibers per LC adapter plate

### Adapter Type
- SC = SC
- LC = LC

### Polish Type
- U = Singlemode UPC
- A = Singlemode APC
- M = Multimode PC

* FDP enclosures come standard with 4"x8" splice trays in 24 fiber single fiber fusion or 6 position ribbon fiber mass fusion configurations.
Cassette or Patch Panel (ARC) Series
Rackmount Panels

Cassette or Patch Panel (ARC) Series Rackmount Panels are 11” deep high density panels that accept ARC format breakout cassettes or preterm configurations.

ARC panels feature a magnetic removable front door with an integrated ID chart holder, blank cover plates, toolless removable rear lid, grounding support, and front panel cutouts to improve accessibility.

The front of the panel features jumper management rings and the rear of the panel supports cable ties.

1RU ARC

Specifications

| Rack Units | 1 |
| Dimensions (Inches) | 1.75 x 17.0 x 11.0 (HxWxD) |
| ARC Cassette Capacity | 4 |
| Fiber Capacity | 48 (SC) or 96 (LC) |
| Mounting | 19” Frames |
| Material | 1.5mm Thick Aluminum |
| Material Finish | White Powder Coat |
| Weight (Empty) (lbs) | 3.0 |

2RU ARC

Specifications

| Rack Units | 2 |
| Dimensions (Inches) | 3.50 x 17.0 x 11.0 (HxWxD) |
| ARC Cassette Capacity | 8 |
| Fiber Capacity | 96 (SC) or 192 (LC) |
| Mounting | 19” Frames |
| Material | 1.5mm Thick Aluminum |
| Material Finish | White Powder Coat |
| Weight (Empty) (lbs) | 4.5 |
Cassette or Patch Panel (ARC) Series

Rackmount Panels

3RU ARC

Cassettes

12-Fiber SC/UPC to MPO Breakout P/N: ARC-CAS-12-B-SCU-MPO-1EM-90

12-Fiber LC/UPC to MPO Breakout P/N: ARC-CAS-12-B-LCU-MPO-1EM-90

24-Fiber LC/UPC to MPO Breakout P/N: ARC-CAS-24-B-LCU-MPO-1EM-90

The ports feature generous spacing for easy access and are labeled for quick identification.

This cassette is designed to breakout the fibers from 40G/100G MPO transceivers using BASE-8 connectivity.

Specifications

<table>
<thead>
<tr>
<th>Rack Units</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>5.25 x 17.0 x 11.0 (HxWxD)</td>
</tr>
<tr>
<td>ARC Cassette Capacity</td>
<td>12</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>144 (SC) or 288 (LC)</td>
</tr>
<tr>
<td>Mounting</td>
<td>19” Frames</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Aluminum</td>
</tr>
<tr>
<td>Material Finish</td>
<td>White Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>6.0</td>
</tr>
</tbody>
</table>

2X LC/UPC to MPO Base-8 Breakout P/N: ARC-CAS-16-B-LCU-MPO-1EM-90

MPO Transceiver Channel | MPO Assembly Transmit Pin | MPO Assembly Receive Pin
------------------------|---------------------------|---------------------------
1                       | 12                        | 1                         |
2                       | 11                        | 2                         |
3                       | 10                        | 3                         |
4                       | 9                         | 4                         |
### Cassette or Patch Panel (ARC) Series

**Front and Rear Views**

- Front With Door Open
- Rear With Lid Installed
- Rear With Lid Removed

### Part Number

<table>
<thead>
<tr>
<th>ARC-</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Format**
  - 1RU = 1RU
  - 2RU = 2RU
  - 3RU = 3RU

- **Connector Type**
  - Leave Blank for No Cassette or Adapter Plates
  - SCU = SC/UPC
  - SCA = SC/APC
  - LCU = LC/UPC
  - LCA = LC/APC

- **Fiber Type**
  - Leave Blank for No Cassette or Adapter Plates
  - S = SM 9/125μm G.652.D
  - B = SM 9/125μm Bend In insensitive G.657.A1
  - 1 = MM 62.5/125μm OM1
  - 2 = MM 50/125μm OM2
  - 3 = MM 50/125μm OM3
  - 4 = MM 50/125μm OM4

- **Cassette or Adapter Plate Quantity**
  - Leave Blank for No Cassette or Adapter Plates
  - XC = X Cassettes
  - XP = X Adapter Plates

- **Cassette or Adapter Plate Fiber Count**
  - Leave Blank for No Cassette or Adapter Plates
  - 12 = 12F (SC/LC)
  - 24 = 24F (LC)
  - B8 = 2X Base-8 Cassette (LC)

- **Stub Cable Construction**
  - Leave Blank for No Stub
  - Add -PE for a Pulling Eye
  - XXXF = XXX Feet
  - XXXM = XXX Meters

- **Stub Jacket Type**
  - Leave Blank for No Stub
  - Choose 1 Option for Each Feature:
  - I = Indoor or X = I/O or O = Outdoor
  - R = OFNR or P = OFNP or L = LSZH*
  - N = Non-Armored or A = Armored*

*(Leave Blank for Outdoor Cable)*
HD Cassette (HDC) Series Rackmount Panels

Overview
HD Cassette (HDC) Series Rackmount Enclosures are ultra high density, modular panels that accept a variety of cassette types.

Cassettes are available in a variety of configurations: MPO to LC, MPO to SC, MPO to MPO, splicing, splitter, and WDM.

Even with a high density design of 144-fibers per rack unit, the cable management and design features ensure all connections are easily accessible.

The use of cassettes and variety of functions allow the HDC to be expanded as needed and serves a variety of purposes.

Features
- Ultra high density - 144 fibers per RU with LC connectors or 288 fibers per RU with SN connectors
- Compact modular cassette based design
- Easy cassette installation and maintenance
- Rear and front facing fiber management
- A locking pin on the side of the chassis provides secure access to the desired cassette
- A magnetic latching door with attached ID chart holder provides quick and convenient access to the connections and port identification information
- Lightweight aluminum chassis

Rear Cable Management

Front Cable Management

Pull the Locking Pin to Release a Cassette
HD Cassette (HDC) Series
Rackmount Panels

Sliding Cassette Design

Cassette Overview

Shuttered LC Adapters Available

SN Adapters Support 48F Cassettes

Adapter shutter prevents dust intrusion and also blocks light transmission
## HD Cassette (HDC) Series

### Rackmount Panels

#### 1RU HDC

![1RU HDC Image]

<table>
<thead>
<tr>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rack Units</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>Dimensions (Inches)</td>
</tr>
<tr>
<td>1.75 x 17 x 18.5 (HxWxD)</td>
</tr>
<tr>
<td>HDC Cassette Capacity</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>Fiber Capacity</td>
</tr>
<tr>
<td>144F LC or 288F SN</td>
</tr>
<tr>
<td>Mounting</td>
</tr>
<tr>
<td>19” Frames</td>
</tr>
<tr>
<td>Material</td>
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<td>2.0mm Thick Aluminum</td>
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<tr>
<td>Material Finish</td>
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<tr>
<td>Black Powder Coat</td>
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<td>Weight (Empty) (lbs)</td>
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#### 2RU HDC

![2RU HDC Image]

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<td>Dimensions (Inches)</td>
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<td>3.5 x 17 x 18.5 (HxWxD)</td>
</tr>
<tr>
<td>HDC Cassette Capacity</td>
</tr>
<tr>
<td>12</td>
</tr>
<tr>
<td>Fiber Capacity</td>
</tr>
<tr>
<td>288F LC or 576F SN</td>
</tr>
<tr>
<td>Mounting</td>
</tr>
<tr>
<td>19” Frames</td>
</tr>
<tr>
<td>Material</td>
</tr>
<tr>
<td>2.0mm Thick Aluminum</td>
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<td>Material Finish</td>
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<tr>
<td>Black Powder Coat</td>
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<tr>
<td>Weight (Empty) (lbs)</td>
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#### 4RU HDC

![4RU HDC Image]

<table>
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<th>Specifications</th>
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</thead>
<tbody>
<tr>
<td>Rack Units</td>
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<tr>
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<tr>
<td>Dimensions (Inches)</td>
</tr>
<tr>
<td>7.0 x 17 x 18.5 (HxWxD)</td>
</tr>
<tr>
<td>HDC Cassette Capacity</td>
</tr>
<tr>
<td>24</td>
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<tr>
<td>Fiber Capacity</td>
</tr>
<tr>
<td>576F LC or 1,152F SN</td>
</tr>
<tr>
<td>Mounting</td>
</tr>
<tr>
<td>19” Frames</td>
</tr>
<tr>
<td>Material</td>
</tr>
<tr>
<td>2.0mm Thick Aluminum</td>
</tr>
<tr>
<td>Material Finish</td>
</tr>
<tr>
<td>Black Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
</tr>
<tr>
<td>14.0</td>
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</tbody>
</table>
Cassette Configuration Examples

(3) 8F MPO Adapters to Quad LC Adapters

(2) 12F MPO Adapters to Duplex LC Adapters

(1) 24F MPO Adapter to Quad LC Adapters

24F Splice Cassette with Quad LC Adapters

(3) 1x8 Splitters with Duplex LC Adapters

(3) 8CH WDMs with Quad LC Adapters
## HD Cassette (HDC) Series

### Rackmount Panels

<table>
<thead>
<tr>
<th>Part Number</th>
<th>HDC-</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
</table>

### Format

1 = 1RU
2 = 2RU
4 = 4RU
C = Cassette Only

*Ignore all subsequent options if ordering the enclosure only

### Cassette Quantity

XX = XX Cassettes

*1RU Supports 6 Cassettes,
2RU Supports 12 Cassettes,
4RU Supports 24 Cassettes

### Fiber Type

- S = SM 9/125µm G.652.D
- B = SM 9/125µm Bend Insensitive G.657.A1
- 1 = MM 62.5/125µm OM1
- 2 = MM 50/125µm OM2
- 3 = MM 50/125µm OM3
- 4 = MM 50/125µm OM4

### Rear Adapter Type

- SC = SC
- LC = LC
- LS = LC Shuttered
- SN = SN
- MP = MPO
- 00 = Pre-Term
- SF = Single Fiber Splice Cassette
- RF = Ribbon Fiber Splice Cassette

### Rear Polish Type

- Leave Blank for Splice Cassette or Pre-Term
- U = Singlemode UPC
- A = Singlemode APC*
- M = Multimode PC
- F = Multimode Flat**

*Select for Singlemode MPO
**Select for Multimode MPO

### Rear MPO Type

- Leave Blank for Non-MPO Connector
- Choose the Quantity of Adapters:
  1 = 1 Adapter
  2 = 2 Adapters
  3 = 3 Adapters
- Choose 1 Option for Each Feature:
  1 = 12 or 2 = 24 Fiber Connector
  S = Standard or E = Elite Ferrule
  F = Female or M = Male Guide Pins

*Leave Blank for Non-MPO Adapter in Rear

### Front Adapter Type

- SC = SC
- LC = LC
- LS = LC Shuttered
- SN = SN
- MP = MPO
- 00 = Pre-Term
- SF = Single Fiber Splice Cassette
- RF = Ribbon Fiber Splice Cassette

### Front Polish Type

- U = Singlemode UPC
- A = Singlemode APC*
- M = Multimode PC
- F = Multimode Flat**

*Select for Singlemode for MPO
**Select for Multimode MPO

### Front MPO Type

- Leave Blank for Non-MPO Adapter
- Choose the Quantity of Adapters:
  1 = 1 Adapter
  2 = 2 Adapters
  3 = 3 Adapters
- Choose 1 Option for Each Feature:
  1 = 12 or 2 = 24 Fiber Connector
  S = Standard or E = Elite Ferrule
  F = Female or M = Male Guide Pins

*Ignore all subsequent options if ordering the enclosure only

### Splitter or WDM Modules

- Leave Blank for No Modules
- 1X8 = (3) 1x8 PLC Splitters
- 8CH = (3) 8CH WDMs

### Stub Length

- Leave Blank for No Stub
- Add -PE for a Pulling Eye
- XXXF = XXX Feet
- XXXM = XXX Meters

### ARIA TECHNOLOGIES, INC.

Fiber Optic Connectivity®

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sales@ariatech.com
www.ariatech.com
HD Patch & Splice Series rackmount enclosures come in 3RU and 9RU formats, support ribbon patch and splice applications, and accommodate up to 288 fibers LC in 3RU or 864-fibers LC in 9RU.

This enclosure is ideal for COs, POPs, and anywhere rack space is limited.

Units are supplied with loaded adapter plates, ribbonized fiber pigtails, splice organizers, and rackmount brackets for mounting in both 19” and 23” racks.

Enclosures are stackable and bolt together for added capacity. Capped openings on the top and bottom of the enclosure support cable passthrough.

Features

- Top and bottom cable entry holes for pass through cables and/or ring cuts.
- Ample room for patchcords to enter or exit via enlarged cable outlets.
- Available with a pre-terminated stub cable.
- Plexiglass magnetic latching front doors and metal captive screw fastening rear doors provide easy access to the connectors.
- High Density design supports 144 fibers SC or 288 fibers LC in 3RU (5.25” height) of space.
- Panel arrives ready to install with preloaded pigtails and adapter panels, reducing contractor labor and project timelines.
- Combination patch & splice design minimizes required rack space.
HD Patch & Splice Series
Rackmount Panels

High Density 3RU

 Specifications

<table>
<thead>
<tr>
<th></th>
<th>3RU 144F SC</th>
<th>3RU 288F LC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>5.25 x 17.0 x 16.0 (HxWxD)</td>
<td>15.75 x 17.0 x 16.0 (HxWxD)</td>
</tr>
<tr>
<td>Adapter Plate Capacity</td>
<td>12</td>
<td>36</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>144 (SC) or 288 (LC)</td>
<td>432 (SC) or 864 (LC)</td>
</tr>
<tr>
<td>Mounting</td>
<td>19” or 23” Frames</td>
<td>19” or 23” Frames</td>
</tr>
<tr>
<td>Material</td>
<td>2.0mm Thick Aluminum</td>
<td>2.0mm Thick Aluminum</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Black Powder Coat</td>
<td>Black Powder Coat</td>
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<tr>
<td>Weight (Empty) (lbs)</td>
<td>6.5</td>
<td>14.0</td>
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</table>

3RU 144F SC Front View

3RU 144F SC Rear View

3RU 288F LC Front View

3RU 288F LC Rear View

High Density 9RU

 Specifications

<table>
<thead>
<tr>
<th></th>
<th>9RU 144F SC</th>
<th>9RU 288F LC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>5.25 x 17.0 x 16.0 (HxWxD)</td>
<td>15.75 x 17.0 x 16.0 (HxWxD)</td>
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<tr>
<td>Adapter Plate Capacity</td>
<td>12</td>
<td>36</td>
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<tr>
<td>Fiber Capacity</td>
<td>144 (SC) or 288 (LC)</td>
<td>432 (SC) or 864 (LC)</td>
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<tr>
<td>Mounting</td>
<td>19” or 23” Frames</td>
<td>19” or 23” Frames</td>
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<tr>
<td>Material</td>
<td>2.0mm Thick Aluminum</td>
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<td>Material Finish</td>
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<td>Black Powder Coat</td>
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<tr>
<td>Weight (Empty) (lbs)</td>
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<td>14.0</td>
</tr>
</tbody>
</table>

3RU 144F SC Front View

3RU 144F SC Rear View

3RU 288F LC Front View

3RU 288F LC Rear View

ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity®
HD Patch & Splice Series
Rackmount Panels

9RU 432F SC Front View

9RU 432F SC Rear View

18RU Pre-Term with Two 9RUs
HD Patch & Splice Series
Rackmount Panels

Panels Can Be Stacked for Higher Fiber Capacity

Compatible With 12A3 Cable Clamp

Large Jumper Entry Openings

Accessories

12AT2 Cable Clamp with SRE-W Bracket for 0.4” to 1.0” Diameter Cable
P/N: 12AT2-SRE-W

12A3 Cable Clamp for 0.25”-1.25” Diameter Cable
P/N: 12A3L-H

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Fiber Optic Connectivity™

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sales@ariatech.com
www.ariatech.com
# HD Patch & Splice Series

## Rackmount Panels

### Part Number

<table>
<thead>
<tr>
<th>HD-</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
</tr>
</thead>
</table>

#### Enclosure

- 3RU = 3RU
- 9RU = 9RU

#### Enclosure Quantity

- X = Number of Panels Bolted Together

#### Adapter Plate Type

- 06 = 6 Port (SC/FC/ST)
- 08 = 8 Port (SC/FC/ST)
- 12A = 12 Port Angled (SC)
- 24A = 24 Port Angled (LC)
- 12 = 12 Port (SC/LC/FC/ST)
- 24 = 24 Port (LC)

#### Adapter Plate Quantity

- X = X Plates

#### Adapter Type

- SC = SC
- LC = LC
- FC = FC
- ST = ST

#### Polish Type

- U = Singlemode UPC
- A = Singlemode APC*
- M = Multimode PC

*Unavailable for ST

#### Pigtail

- N = No Pigtail or Pre-Term
- R = Ribbon

Note: 3 meter pigtail length is standard

#### Fiber Type

- S = SM 9/125μm G.652.D
- B = SM 9/125μm Bend Insensitive G.657.A1
- 1 = MM 62.5/125μm OM1
- 2 = MM 50/125μm OM2
- 3 = MM 50/125μm OM3
- 4 = MM 50/125μm OM4

#### Enclosure Quantity

- X = Number of Panels Bolted Together

#### Fiber Length

- 3RU = 3RU
- 9RU = 9RU

#### Stub Jacket Type

- Leave Blank for No Stub

Choose 1 Option for Each Feature:

- I = Indoor or X = I/O or O = Outdoor
- R = OFNR or P = OFNP or L = LSZH*
- N = Non-Armored or A = Armored*

Note: Ribbon Cable Only *Leave Blank for Outdoor Cable

#### Stub Polish Type

- Leave Blank for No Stub or No Connector

#### Fiber Type

- U = Singlemode UPC
- A = Singlemode APC*
- M = Multimode PC
- F = Multimode Flat**

*Unavailable for ST and Select for Singlemode MPOs
**Select for Multimode MPOs

#### Breakout Type at Stub

- Leave Blank for MPO Connector or No Stub

- 9 = 900μm
- 2 = 2mm

#### Stub Breakout Length

- Leave Blank for MPO Connector or No Stub

- XX = Length in Inches (Typically: 18", 24", or 36")

#### Stub Connector Type

- Leave Blank for No Stub

#### Stub Length

- Leave Blank for No Stub

- Add -PE for a Pulling Eye

- XXXF = XXX Feet
- XXXM = XXX Meters
Hyperscale (HSX) Series Rackmount Panels

Overview
Hyperscale (HSX) Series Rackmount Panels are user friendly and feature rich ultra high density enclosures.

They are available in 2RU, 3RU or 4RU formats with 288, 432, or 576 fiber configurations depending on the desired connector access and density.

Ribbon fiber patch and splice, pre-term or patch only configurations are available.

Features
- Fiber management rings in the front and rear of the panel protect and organize fiber
- Shuttered adapters with port numbering and easily removable lids enhance component access
- Removable adapter plates support pigtail connector removal for cleaning

Components
- Holes to attach multiple panels together
- Removable adapter plates with shuttered LC adapters
- Transparent door with integrated ID chart holder supports quick port identification

Modular Design
Panels can be bolted together and have a removable lid and floor plate to support enhanced connector access.

Rackmount bracket supports multiple depth positions and 19” or 23” racks
Rear cable entry opening supports top or bottom oriented cable clamps
Captive thumb screws support easy lid removal
Spring latch door hinge supports easy door removal
Jumper management rings
Grounding support
Removable floor plate improves connector access when multiple panels are attached together
Removable floor plate improves connector access when multiple panels are attached together

ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity™
Hyperscale (HSX) Series

Rackmount Panels

2RU

Specifications

<p>| | |</p>
<table>
<thead>
<tr>
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<th></th>
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</thead>
<tbody>
<tr>
<td>Rack Units</td>
<td>2</td>
</tr>
<tr>
<td>Dimensions (Inches)</td>
<td>3.5 x 17.0 x 16.2 (HxWxD)</td>
</tr>
<tr>
<td>Patch &amp; Splice Capacity</td>
<td>288-Fiber</td>
</tr>
<tr>
<td>Mounting</td>
<td>19” or 23” Frames</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Aluminum</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Black Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
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</table>

288-Fiber Configuration

Removable Adapter Plates

 Easily Identifiable Port Numbering

Adapter plates feature release tabs and pigtail slack to support rear connector maintenance if needed

Rear View

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www.ariatech.com
Hyperscale (HSX) Series
Rackmount Panels

3RU

Front View

Rear View

288-Fiber Configuration

432-Fiber Configuration

Removable Adapter Plates

Easily Identifiable Port Numbering

Adapter plates feature release tabs and pigtail slack to support rear connector maintenance if needed

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<td>Rack Units</td>
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<tr>
<td>Dimensions (Inches)</td>
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<td>Patch &amp; Splice Capacity</td>
<td>288-Fiber or 432-Fiber</td>
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<tr>
<td>Mounting</td>
<td>19&quot; or 23&quot; Frames</td>
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<tr>
<td>Material</td>
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<td>Material Finish</td>
<td>Black Powder Coat</td>
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<tr>
<td>Weight (Empty) (lbs)</td>
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ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity™
### Hyperscale (HSX) Series

Rackmount Panels

#### 4RU Specifications

<table>
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<tr>
<th>Specification</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Rack Units</td>
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<td>Dimensions (Inches)</td>
<td>7.0 x 17.0 x 16.2 (HxWxD)</td>
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<tr>
<td>Patch &amp; Splice Capacity</td>
<td>432-Fiber or 576-Fiber</td>
</tr>
<tr>
<td>Mounting</td>
<td>19&quot; or 23&quot; Frames</td>
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<tr>
<td>Material</td>
<td>1.5mm Thick Aluminum</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Black Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>10.0</td>
</tr>
</tbody>
</table>

#### 432-Fiber Configuration

Adapter plates feature release tabs and pigtail slack to support rear connector maintenance if needed.

#### 576-Fiber Configuration

Easily Identifiable Port Numbering

#### Rear View

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Hyperscale (HSX) Series
Rackmount Panels

Accessories

12AT2 Cable Clamp for 0.4" to 1.0" Diameter Cable
P/N: 12AT2

12A3 Cable Clamp for 0.25"-1.25" Diameter Cable
P/N: 12A3L-H

Connector Grabber. Recommended for 2RU 288F, 3RU 432F or 4RU 576F Configuration with Standard Connectors (P/N: CS-CGT)

LC Pull Boot Jumper. Recommended for 2RU 288F, 3RU 432F or 4RU 576F Configuration (P/N: See Jumper Datasheet)

Part Number

\[ \text{HSX-} \quad \text{Enclosure} \quad \text{Fiber Type} \quad \text{Stub Jacket Type} \quad \text{Stub Length} \quad \text{Fiber Count} \quad \text{Enclosure Quantity} \quad \text{Polish Type} \quad \text{Stub Cable Construction} \]

1. Enclosure
   - 2RU = 2RU
   - 3RU = 3RU
   - 4RU = 4RU

2. Fiber Count
   - 288 = 288F (2RU/3RU)
   - 432 = 432F (3RU/4RU)
   - 576 = 576F (4RU)

3. Enclosure Quantity
   - Leave Blank for 1 Panel
   - \( X = \text{Number of Panels Bolted Together} \)

4. Polish Type
   - U = Singlemode UPC
   - A = Singlemode APC
   - M = Multimode PC

5. Fiber Type
   - S = SM 9/125μm G.652.D
   - B = SM 9/125μm Bend Insensitive G.657.A1
   - 1 = MM 62.5/125μm OM1
   - 2 = MM 50/125μm OM2
   - 3 = MM 50/125μm OM3
   - 4 = MM 50/125μm OM4
   - Note: 3 meter pigtail length is standard

6. Stub Cable Construction
   - Leave Blank for No Stub
   - D = Distribution (I or X)
   - M = Micro Round (I, X, or O)
   - L = Loose Tube (X or O)
   - R = Ribbon (I, X, or O)
   - (I) = Indoor Only
   - (X) = Indoor/Outdoor Only
   - (O) = Outdoor Only

7. Stub Jacket Type
   - Leave Blank for No Stub
   - Choose 1 Option for Each Feature:
     - I = Indoor or X = I/O or O = Outdoor
     - R = OFNR or P = OFNP or L = LSZH*
     - N = Non-Armored or A = Armored
   - *Leave Blank for Outdoor Cable

8. Stub Length
   - Leave Blank for No Stub
   - Add -PE for a Pulling Eye
   - XXXF = XXX Feet
   - XXXM = XXX Meters

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HD Modular (HDM) Series Rackmount Panels

Overview
HD Modular (HDM) Series Rackmount Panels support high density and ultra high density, MPO breakout cassettes, adapter plates, and MPO shuffle cassettes for data center environments.

The chassis holds 4 cassettes per RU and supports front only or front and rear access.

The 1RU open chassis and 2RU removable front floor and lid design supports enhanced hand access when panels are stacked.

Various cassettes and adapter plates are available to support fiber shuffling, breakouts, or patching.

Features
- 1RU removable cable management arms provide cable organization and strain relief with a door
- Shuffle cassettes have front facing adapters and are mounted in a chassis with front cable management
- Breakout cassettes have front and rear facing adapters and are mounted in a chassis with front and rear cable management
- Magnetic-latching easily removable door protects jumpers, rotates 90 degrees for component access and provides a port identification chart holder

Specifications
<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rack Units</td>
<td>1</td>
</tr>
<tr>
<td>Dimensions</td>
<td>1.7 H x 19.0 W x D&quot;</td>
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<tr>
<td>HDM Capacity</td>
<td>4 Cassettes / Adapter Plates</td>
</tr>
<tr>
<td>Mounting</td>
<td>19&quot; Frames</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Steel</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Black Powdercoat</td>
</tr>
</tbody>
</table>

1RU Chassis
Front Management for Shuffle Cassettes (6.3" Deep) (12.7" Deep with Shuffle Cassettes Attached)

Front Management for Adapter Plates (10.6" Deep)

Front & Long Rear Management for Breakout Cassettes (14.4" Deep)
# HD Modular (HDM) Series

## Rackmount Panels

### 2RU Chassis

![2RU Chassis](image)

<table>
<thead>
<tr>
<th>Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rack Units</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>3.5&quot; H x 19.0&quot; W x 17.5&quot; D</td>
</tr>
<tr>
<td><strong>HDM Capacity</strong></td>
<td>8 Cassettes / Adapter Plates</td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
<td>19&quot; Frames</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>1.5mm Thick Aluminum</td>
</tr>
<tr>
<td><strong>Material Finish</strong></td>
<td>Black Powdercoat</td>
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</tbody>
</table>

864-Fiber 2RU HDM Loaded With Eight 9X MPO-12 to SN Breakout Cassettes and Three 288-Fiber Pre-Terminated Cable Assemblies
HD Modular (HDM) Series

Rackmount Panels

HDM Cassette

MPO-16 Shuffle Cassette

2X MPO-12 Base-8 Shuffle Cassette

Specifications

<table>
<thead>
<tr>
<th>Cassette Type</th>
<th>Dimensions (HxWxD)</th>
<th>Material</th>
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<tbody>
<tr>
<td>Shuffle Cassette</td>
<td>1.7 x4.2x7.9&quot; (42.5x106.4x200.0mm)</td>
<td>1.5mm and 1.0mm Thick Steel and Aluminum</td>
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<tr>
<td>Breakout Cassette</td>
<td>1.7x4.2x4.1&quot; (42.5x106.4x104.1mm)</td>
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<tr>
<td>Material Finish</td>
<td>Black Powdercoat</td>
<td></td>
</tr>
<tr>
<td>Weight (Empty)</td>
<td>1.0lb (0.45kg)</td>
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</table>
HD Modular (HDM) Series
Rackmount Panels

3X MPO-12 to LC Breakout Cassette

Front

Rear

4X MPO-12 Base-8 to LC Breakout Cassette

Front

Rear

4X MPO-12 to LC Breakout Cassette

Front

Rear

6X MPO-12 Base-8 to LC Breakout Cassette

Front

Rear
HD Modular (HDM) Series
Rackmount Panels

8X MPO-16 to Base-8 Breakout Cassette

4X MPO-24 to SN Breakout Cassette

12X MPO-12 Base-8 to SN Breakout Cassette
HD Modular (HDM) Series
Rackmount Panels

9X MPO-12 to SN Breakout Cassette

36F LC Adapter Plate

48F LC Adapter Plate

16X MPO-8/12/24 Adapter Plate

16X MPO-16 Adapter Plate
HD Modular (HDM) Series
Rackmount Panels

1X MPO-12 Base-8 to LC Breakout Cassette

Front

Rear

Polarity

2X MPO-12 Base-8 to LC Breakout Cassette

Front

Rear

Polarity

1X MPO-24 Base-20 to LC Breakout Cassette

Front

Rear

Polarity

Enhanced Hand Access When Stacked
**HD Modular (HDM) Series**

**Rackmount Panels**

### Part Number

```
HDM-  -   -
  1 2 3
```

<table>
<thead>
<tr>
<th>Component</th>
<th>Cassette</th>
</tr>
</thead>
<tbody>
<tr>
<td>1RU = 1RU Chassis With Front Management for Shuffle Cassettes</td>
<td></td>
</tr>
<tr>
<td>1RULR = 1RU Chassis With Front and Long Rear Management for Breakout Cassettes</td>
<td></td>
</tr>
<tr>
<td>1RUSR = 1RU Chassis With Front and Short Rear Management for Adapter Plates</td>
<td></td>
</tr>
<tr>
<td>2RU = 2RU Chassis</td>
<td></td>
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<tr>
<td>CAS = HD Cassette</td>
<td></td>
</tr>
<tr>
<td>16XMPO16AP = 16X MPO-16 Adapter Plate</td>
<td></td>
</tr>
<tr>
<td>16XMPO12AP = 16X MPO-8/12/24 Adapter Plate</td>
<td></td>
</tr>
<tr>
<td>36FLCAP = 36F LC Adapter Plate</td>
<td></td>
</tr>
<tr>
<td>48FLCAP = 48F LC Adapter Plate</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fiber Type</th>
<th>Leave Blank for 1RU or MPO Adapter Plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leave Blank for 1RU or MPO Adapter Plate</td>
<td></td>
</tr>
<tr>
<td>B = Singlemode BendInsensitive G.657.A1</td>
<td></td>
</tr>
<tr>
<td>4 = Multimode OM4</td>
<td></td>
</tr>
</tbody>
</table>

Note: All MPO connectors are male, elite low-loss. All multimode MPO-12 connectors are flat. All singlemode MPO-12 connectors are APC. All MPO-16 connectors are APC.

**MPO Shuffle**

- **MPO16SHUF** = 8 Front MPO-16 Inputs Shuffled Across 8 Front MPO-16 Outputs
- **2XMPOB8SHUF** = 2 Sets of 4 Front MPO-12 Base-8 Inputs Shuffled Across 4 Front MPO-12 Base-8 Outputs

**MPO-16 to MPO-12 Base-8**

- **8XMPO16B8BO** = 8 Sets of 1 Rear MPO-16 Input Broken Out Across 2 Front MPO-12 Base-8 Outputs

**MPO-12 Base-8 to LC**

- **1XMPOB8LCBO** = 1 Rear MPO-12 Base-8 Input Broken Out Across 8 Front LC Outputs
- **2XMPOB8LCBO** = 2 Sets of 1 Rear MPO-12 Base-8 Input Broken Out Across 8 Front LC Outputs
- **4XMPOB8LCBO** = 4 Sets of 1 Rear MPO-12 Base-8 Input Broken Out Across 8 Front LC Outputs
- **6XMPOB8LCBO** = 6 Sets of 1 Rear MPO-12 Base-8 Input Broken Out Across 8 Front LC Outputs

**MPO-12 to LC**

- **3XMPO12LCBO** = 3 Sets of 1 Rear MPO-12 Input Broken Out Across 12 Front LC Outputs
- **4XMPO12LCBO** = 4 Sets of 1 Rear MPO-12 Input Broken Out Across 12 Front LC Outputs

**MPO-24 to LC**

- **1XMPO20LCBO** = Rear MPO-24 Base-8 Input Broken Out Across 20 Front LC Outputs

**MPO to SN**

- **4XMPO24SNBO** = 4 Sets of 1 Rear MPO-24 Input Broken Out Across 24 Front SN Outputs
- **12XMPOB8SNBO** = 12 Sets of 1 Rear MPO-12 Base-8 Input Broken Out Across 8 Front SN Outputs
- **9XMPO12SNBO** = 9 Sets of 1 Rear MPO-12 Input Broken Out Across 12 Front SN Outputs
Deployable Patch Panel (DPP) Series Rackmount Enclosures hold one or more preterminated cable assemblies on an internal reel.

The cable is pulled off of an internal spinning reel and the remaining slack is stored safely within the panel.

This allows for one panel configuration to serve multiple deployments without the need for slack storage.

Features

- Internal spinning reel(s) store cable slack and allows one product to serve different deployment scenarios
- Top and bottom cut outs and an easy to remove front door provides generous hand access to jumpers
- Supports 48 fiber cable and has capacity for additional cable length on an external reel
- Shuttered LC adapters are VFL compatible and prevent dust ingress without dust caps
- Port labeling beside bulkheads for quick identification
- Larger DPPs feature multiple independent reels that can be installed as needed when network expansion is required
- Secure reel locking mechanism prevents reel rotation once the desired length of cable has been deployed
- Sliding adapter partition allows access to the connector on the back of the bulkhead
- Cable radius guides organize patch cords and protect the cable being pulled
Deployable Patch Panel (DPP) Series

Rackmount Panels

1RU DPP

Specifications

<table>
<thead>
<tr>
<th>Rack Units</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>1.75 x 17.0 x 14.0 (HxWxD)</td>
</tr>
<tr>
<td>Reel Capacity</td>
<td>1</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>48 (LC Only)</td>
</tr>
<tr>
<td>Mounting</td>
<td>19” or 23” Frames</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Steel &amp; Aluminum</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Dark &amp; Light Gray Powder Coat</td>
</tr>
<tr>
<td>Weight (lbs)</td>
<td>8 (With Cable)</td>
</tr>
</tbody>
</table>

1RU Sliding Adapter Partition for Rear Connector Access

Loosen the thumbscrews in the front of the panel using a screw driver

Pull adapter partition forward

Access the connector as needed

4RU DPP

Specifications

<table>
<thead>
<tr>
<th>Rack Units</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>7.0 x 17.0 x 14.0 (HxWxD)</td>
</tr>
<tr>
<td>Reel Capacity</td>
<td>6</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>288 (LC Only)</td>
</tr>
<tr>
<td>Mounting</td>
<td>19” or 23” Frames</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Steel &amp; Aluminum</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Dark &amp; Light Gray Powder Coat</td>
</tr>
<tr>
<td>Weight (lbs)</td>
<td>10 (Empty)</td>
</tr>
</tbody>
</table>

4RU Sliding Adapter Partition for Rear Connector Access

Open the front door and remove it if desired

Loosen the thumbscrews in the front of the panel using a screw driver

Pull adapter partition forward and access the connector as needed
Deployable Patch Panel (DPP) Series

Panel Cutouts and Removable Front Door Provide Enhanced Connector Access

When multiple DPPs are stacked, removing the front door greatly improves connector access. This is enhanced by top and bottom panel cutouts.

Open the magnetic latching front door | Pull the spring latch hinges | Remove the door

Internal Reel Capacities

<table>
<thead>
<tr>
<th>Cable Type</th>
<th>Short/Long Term Max Tensile Strength (N)</th>
<th>Short/Long Term Crush Resistance (N/100mm)</th>
<th>1RU/4RU Capacity 12F (ft)</th>
<th>1RU/4RU Capacity 24F (ft)</th>
<th>1RU/4RU Capacity 48F (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor Plenum 3.0mm Round</td>
<td>100/30</td>
<td>500/100</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Indoor Plenum 3x6mm Zipcord</td>
<td>660/200</td>
<td>500/100</td>
<td>N/A</td>
<td>100 / 75</td>
<td>50* / 38*</td>
</tr>
<tr>
<td>Indoor/Outdoor LSZH 3.6mm Round</td>
<td>220/70</td>
<td>500/100</td>
<td>150 / 110</td>
<td>150 / 110</td>
<td>N/A</td>
</tr>
<tr>
<td>Indoor Plenum 4.1mm Round</td>
<td>660/200</td>
<td>1,000/200</td>
<td>N/A</td>
<td>125 / 95</td>
<td>N/A</td>
</tr>
<tr>
<td>Indoor Plenum 4.8mm Round</td>
<td>660/200</td>
<td>1,000/200</td>
<td>N/A</td>
<td>N/A</td>
<td>100 / 75</td>
</tr>
<tr>
<td>Indoor/Outdoor LSZH 4.8mm Round</td>
<td>300/100</td>
<td>1000/300</td>
<td>N/A</td>
<td>N/A</td>
<td>100 / 75</td>
</tr>
<tr>
<td>Indoor Plenum 5.0mm Round Armored</td>
<td>800/400</td>
<td>3000/1500</td>
<td>100 / 75</td>
<td>100 / 75</td>
<td>50* / 38*</td>
</tr>
</tbody>
</table>

*This configuration is made with multiple assemblies

Armored Cable Available

5.0mm Yellow OFNP Outer Jacket
Aramid Yarn
Spiral Metal Armor
OFNP Yellow Loose Tube
Kevlar
Singlemode G.657.A1 Bend Insensitive Fiber

Additional Cable Provided on a Reel

ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity™

(925) 447-7500
sales@ariatech.com
www.ariatech.com
Deployable Patch Panel (DPP) Series

Applications
Telco Central Office - CATV Headend

Data Center

Wireless Cell Tower

ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity™

(925) 447-7500
sales@ariatech.com
www.ariatech.com
## Deployable Patch Panel (DPP) Series

### Rackmount Panels

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPP-123456789011</td>
<td></td>
</tr>
</tbody>
</table>

#### Enclosure
- **1RU = 1RU Panel Only**
- **4PO = Panel Only**
- **4XS = Panel With X Shelves**
- **4SO = Shelf Only**

#### Fiber Count*
- **12 = 12F**
- **24 = 24F**
- **48 = 48F**

*For Entire 1RU Panel or for each 4RU Shelf

#### Cable Type
- **Z = Zipcord Indoor OFNP**
- **R = Round Indoor OFNP**
- **A = Round Indoor OFNP Armored**
- **L = Round Indoor/Outdoor LSZH**

#### Fiber Type
- **S = SM 9/125μm G.652.D**
- **B = SM 9/125μm Bend Insensitive G.657.A1**
  - **1 = MM 62.5/125μm OM1**
  - **2 = MM 50/125μm OM2**
  - **3 = MM 50/125μm OM3**
  - **4 = MM 50/125μm OM4**

#### Polish Type at Panel End
- **U = Singlemode UPC**
- **A = Singlemode APC**
- **M = Multimode PC**

#### Polish Type at Far End
- **U = Singlemode UPC**
- **A = Singlemode APC**
- **M = Multimode PC**
- **F = Multimode Flat**
- **0 = No Connector**

*Unavailable for ST and Select for Singlemode MPOs
**Select for Multimode MPOs

#### Connector Type at Far End
- **SC = SC**
- **SB = SC Uniboot**
- **LC = LC**
- **FC = FC**
- **ST = ST**
- **MP = MPO**
- **E2 = E2000**
- **CS = CS**
- **SN = SN**
- **00 = No Connector**

*2mm or 3mm Breakout Only
Note: Add DC to Add Duplex Clips on Non-Uniboot Connectors

#### LC Type at Far End
- **A = 50° Boot**
- **F = Flat Pull Tab**
- **U = Uniboot**
- **P = Uniboot Polarity Switchable**
- **R = Uniboot Polarity Switchable with Pull Tab**
- **P = Uniboot Pull Boot Polarity Switchable**

*2mm or 3mm breakout only

#### MPO Type at Far End
- **Leave Blank for Non-MPO Connector**
- **Choose 1 Option for Each Feature:**
  - **1 = 12 or 2 = 24 Fiber Connector**
  - **S = Standard or E = Elite Ferrule**
  - **F = Female or M = Male Guide Pins**

#### Breakout Type at Far End
- **9 = 900μm (Color Coded)**
- **2 = 2mm (Std. Indoor Jacket Color)**
- **3 = 3mm (Std. Indoor Jacket Color)**

#### Breakout Length at Far End
- **XX = Length in Inches**
  - (Typically: 18", 24", or 36")

#### Cable Type
- **Z = Zipcord Indoor OFNP**
- **R = Round Indoor OFNP**
- **A = Round Indoor OFNP Armored**
- **L = Round Indoor/Outdoor LSZH**

### Notes
- Add DC to Add Duplex Clips on Non-Uniboot Connectors
- *For Entire 1RU Panel or for each 4RU Shelf

### Contact Information
- **(925) 447-7500**
- **sales@ariatech.com**
- **www.ariatech.com**
The Module Management System (MMS) Rackmount Panel provides a 2RU sized mounting interface for WDM modules or splitter modules and supports an unused connector parking lot.

It is designed for use inside of outdoor cabinets in FTTH deployments.

Accepts ARIA Splitter or WDM Modules With MMS Mounting Brackets

Features
- Compact profile preserves vital rack space
- Modules are easy to attach with a single screw
- Cable tie down brackets support organized cable management
- Magnetic latching and easy to remove door provides an integrated port ID chart holder
- Parking lot for unused connectors
- Supports 36 1x32 splitter modules or 1,152 fibers
- Supports 36 8CH WDM modules or 288 channels

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rack Units</td>
<td>2</td>
</tr>
<tr>
<td>Dimensions (Inches)</td>
<td>3.5 x 17.4 x 10.0 (HxWxD)</td>
</tr>
<tr>
<td>Supported Splitter Configurations</td>
<td>1x2, 1x4, 1x8, 1x16, or 1x32</td>
</tr>
<tr>
<td>Support WDM Configurations</td>
<td>4CH or 8CH</td>
</tr>
<tr>
<td>Module Capacity</td>
<td>36</td>
</tr>
<tr>
<td>Splitter Capacity</td>
<td>1,152 Fibers</td>
</tr>
<tr>
<td>WDM Capacity</td>
<td>288 CH</td>
</tr>
<tr>
<td>Mounting</td>
<td>19&quot; Frames</td>
</tr>
<tr>
<td>Chassis Material</td>
<td>1.5mm Thick Steel</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Black Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Part Number

MMS-2RU-EMPTY
3.5x17.0x8.2” 2RU black powdercoated aluminum Module Management System (MMS) Rackmount Panel.
Supports attachment of 36 modules and includes (4) #12-24x1/2” rackmount screws.
ARIA Fiber Optic Cable Assemblies are available with your choice of fiber count, features, flame rating, connector type, polish type, fiber type, and cable type.

All assemblies are 100% tested and certified to Telcordia GR-326-CORE Issue 4 specifications.

**Bend-Insensitive Fiber Available**

Cable bends can create high loss in congested areas.

ARIA Bend-Insensitive cable assemblies are ITU-T G.657.A1 compliant and ensure low loss even with a 10mm bend radius.

**Pulling Eye Available**  **Fanout Kits Available**  **Cable Breakouts Available**
Multi-Fiber Cable Assemblies
Fiber Optic Cable Assemblies

Cable Types

**Indoor Cable** is used exclusively within buildings and must have a flame-retardant jacket to fit this purpose.

**Indoor/Outdoor Cable** is designed to meet the rigorous environment of the outdoors but can be routed indoors, where flame rating requirements apply. This eliminates the need for a “transition splice” to an indoor-rated cable when routing an outdoor cable into a building.

**Outdoor Cable** features rugged construction engineered to withstand conditions seen outside such as: extreme temperature fluctuations, UV light resistance, and protection from mechanical forces. Outdoor cable cannot extend into a building more than 50 feet from its point of entrance according to the National Electrical Code (NEC).

Jacket Rating

**Riser (OFNR - Optical Fiber Nonconductive Riser)** cable jackets are rated for flame generation and are held to a lower standard than plenum cables.

**Plenum (OFNP - Optical Fiber Nonconductive Plenum)** cable jackets are intended for use in spaces that facilitate environmental air handling and are rated for both flame and smoke generation.

**LSZH (Low-Smoke Zero Halogen)** cable jackets eliminate toxic gases that are produced when water interacts with a burning cable jacket. LSZH jackets are not available with a plenum rating.

Armor

Non-Armored  Armored  Interlocking Armor

Examples

72-Fiber Distribution Cable with Singlemode G.652.D Fiber, 36” 900μm Breakout, and SC/UPC Connectors

48-Fiber Micro Cable with Multimode OM4 Fiber, 18” 3mm Breakout, and MPO Connectors

36-Fiber Indoor/Outdoor Distribution Cable with Singlemode G.652.D Fiber, 36” 2mm Breakout, and ST/UPC Connectors
Examples (Continued)

144-Fiber Micro Distribution Cable with Singlemode G.657.A1 Fiber, 36" 2mm Breakout, and MPO Connectors

12-Fiber 3.0mm Micro Distribution Cable with Singlemode G.657.A1 Fiber and MPO Connectors

144-Fiber Micro Distribution Cable with Singlemode G.657.A1 Fiber, 36" 900μm Breakout, and LC/UPC Connectors
High Density Connectors Available

- SC and LC uniboot connectors reduce fiber congestion
- LC connectors with pull tabs ease connector insertion and removal
- LC uniboot polarity switchable connectors reduce fiber congestion and provide polarity flexibility

Endface Geometry Testing

Radius of curvature is the roundness of the ferrule’s endface

Fiber height is the height or depth that the fiber core protrudes or undercut the ferrule endface

Apex offset is the distance between the highest point of the polished ferrule’s endface and the fiber’s axis

Endface Clarity, Insertion & Return Loss Testing

Endface Clarity is the cleanliness and smoothness of the connector endface

Insertion Loss refers to the amount of optical power lost through a jumper

Return Loss refers to the optical power reflected at the connector toward the source

Testing Requirements

<table>
<thead>
<tr>
<th>Test</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endface Clarity</td>
<td>No scratches, pits, dirt, or oil at 400x magnification</td>
</tr>
<tr>
<td>Insertion Loss (dB)</td>
<td>≤0.20 Maximum, ≤0.15 Typical</td>
</tr>
<tr>
<td>Return Loss (dB)</td>
<td>≤-55 (UPC), ≤-65 (APC)</td>
</tr>
<tr>
<td>MPO Insertion Loss (dB)</td>
<td>≤0.70 (Singlemode), ≤0.60 (Multimode), ≤0.35 (Elite)</td>
</tr>
<tr>
<td>MPO Return Loss (dB)</td>
<td>≤-60 (Singlemode), ≤-25 (Multimode)</td>
</tr>
<tr>
<td>Radius of Curvature (mm)</td>
<td>7 to 25 (UPC), 5 to 12 (APC)</td>
</tr>
<tr>
<td>Fiber Height (nm)</td>
<td>±50 (UPC), ±100 (APC)</td>
</tr>
<tr>
<td>Apex Offset (µm)</td>
<td>&lt;50</td>
</tr>
</tbody>
</table>

PASS

Fiber Specifications

<table>
<thead>
<tr>
<th>Fiber Type</th>
<th>Wavelengths (nm)</th>
<th>Max Atten. (db/km)</th>
<th>1 GbE Max Distance (m)</th>
<th>10 GbE Max Distance (m)</th>
<th>40 GbE Max Distance (m)</th>
<th>100 GbE Max Distance (m)</th>
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</thead>
<tbody>
<tr>
<td>9/125μm SMF</td>
<td>1310/1550</td>
<td>0.35/0.25</td>
<td>5000</td>
<td>1000/4000</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>62.5/125μm OM1</td>
<td>850/1300</td>
<td>3.5/1.0</td>
<td>300/550</td>
<td>33</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>50/125μm OM2</td>
<td>850/1300</td>
<td>3.5/1.5</td>
<td>600/600</td>
<td>82</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>50/125μm OM3</td>
<td>850/1300</td>
<td>3.0/1.5</td>
<td>1000/600</td>
<td>300</td>
<td>100</td>
<td>70</td>
</tr>
<tr>
<td>50/125μm OM4</td>
<td>850/1300</td>
<td>3.0/1.0</td>
<td>N/A</td>
<td>550</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>50/125μm OM5</td>
<td>850/1300</td>
<td>3.0/1.0</td>
<td>N/A</td>
<td>550</td>
<td>150</td>
<td>150</td>
</tr>
</tbody>
</table>
Cable Constructions

**Distribution** cables consist of 900μm fibers with Kevlar reinforcement. For larger fiber counts, the fibers are arranged in subunits around a central strength member.

**Breakout** cables consist of 2mm simplex cables.

**Micro** cables (or micro distribution cables) consist of 250μm fibers with Kevlar reinforcement. 12-Fiber cables can be as small as 2.0mm in diameter and are available in a zipcord format. For larger fiber counts, the fibers are arranged in subunits around a central strength member.

**Ribbon** cables consist of a single central tube that contains optical fibers arranged in ribbons. For larger fiber counts, ribbons are arranged in subunits.
Cable Constructions (Continued)

**Loose Tube** cables are designed for outdoor use and consist of a buffer tube that contains loose 250µm fibers. For larger fiber counts, buffer tubes are arranged around a central strength member.

**Flat drop** cables consist of a central buffer tube, Kevlar, and two strength members in an ovular outer jacket.

**Multi-Fiber Cable Assemblies**

**Outer Cable Jacket Colors**
The TIA-598-D standard designates the following as the standard outer cable jacket colors.

- **Yellow**: Indoor cable with singlemode optical fiber
- **Orange**: Indoor cable with OM1 or OM2 multimode optical fiber
- **Aqua**: Indoor cable with OM3 or OM4 multimode optical fiber
- **Erika Violet**: Sometimes used to designate indoor cable with OM4 multimode optical fiber
- **Lime Green**: Indoor cable with OM5 multimode optical fiber
- **Blue**: Sometimes used to designate indoor cable with SM BI fiber or polarization-maintaining fiber
- **Black**: Outdoor cable

**Inner Cable Fiber Colors**
Fibers are grouped in sets of 12. Inside a cable, the fibers and sometimes subunits are colored for identification as shown below. If more than 12 fibers or subunits are present, tracer marks are used.
### Multi-Fiber Cable Assemblies

#### Fiber Type

<table>
<thead>
<tr>
<th>Fiber Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>SM 9/125μm G.652.D</td>
</tr>
<tr>
<td>B</td>
<td>SM 9/125μm Bend Insensitive G.657.A1</td>
</tr>
<tr>
<td>1</td>
<td>MM 62.5/125μm OM1</td>
</tr>
<tr>
<td>2</td>
<td>MM 50/125μm OM2</td>
</tr>
<tr>
<td>3</td>
<td>MM 50/125μm OM3</td>
</tr>
<tr>
<td>4</td>
<td>MM 50/125μm OM4</td>
</tr>
<tr>
<td>5</td>
<td>MM 50/125μm OM5</td>
</tr>
</tbody>
</table>

#### Number of Fibers

**XXX = XXX Fibers**

#### Cable Construction

<table>
<thead>
<tr>
<th>Cable Construction</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>Distribution (I or X)</td>
</tr>
<tr>
<td>B</td>
<td>Breakout (X)</td>
</tr>
<tr>
<td>M</td>
<td>Micro Round (I)</td>
</tr>
<tr>
<td>Z</td>
<td>Micro Zipcord* (I)</td>
</tr>
<tr>
<td>L</td>
<td>Loose Tube (X or O)</td>
</tr>
<tr>
<td>R</td>
<td>Ribbon (I, X, or O)</td>
</tr>
<tr>
<td>F</td>
<td>Flat Drop (O)</td>
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</tbody>
</table>

#### Cable Type

<table>
<thead>
<tr>
<th>Cable Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Indoor</td>
</tr>
<tr>
<td>X</td>
<td>Indoor/Outdoor</td>
</tr>
<tr>
<td>O</td>
<td>Outdoor</td>
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</tbody>
</table>

#### Armor

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>Non-Armored</td>
</tr>
<tr>
<td>A</td>
<td>Armored</td>
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</table>

#### Connector Type End 1

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC</td>
<td>SC</td>
</tr>
<tr>
<td>LC</td>
<td>LC</td>
</tr>
<tr>
<td>FC</td>
<td>FC</td>
</tr>
<tr>
<td>ST</td>
<td>ST</td>
</tr>
<tr>
<td>CS</td>
<td>CS*</td>
</tr>
<tr>
<td>SB</td>
<td>SC Uniboot*</td>
</tr>
<tr>
<td>MD</td>
<td>MDC*</td>
</tr>
<tr>
<td>SN</td>
<td>SN*</td>
</tr>
</tbody>
</table>

#### Polish Type End 1

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>U</td>
<td>Singlemode UPC</td>
</tr>
<tr>
<td>A</td>
<td>Singlemode APC*</td>
</tr>
<tr>
<td>M</td>
<td>Multimode PC</td>
</tr>
<tr>
<td>F</td>
<td>Multimode Flat**</td>
</tr>
<tr>
<td>0</td>
<td>No Connector</td>
</tr>
</tbody>
</table>

#### LC Type End 1

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>50° Boot</td>
</tr>
<tr>
<td>F</td>
<td>Flat Pull Tab</td>
</tr>
<tr>
<td>U</td>
<td>Uniboot</td>
</tr>
<tr>
<td>P</td>
<td>Uniboot Polarity Switchable</td>
</tr>
<tr>
<td>2</td>
<td>Uniboot 20mm Pull Tab</td>
</tr>
<tr>
<td>4</td>
<td>Uniboot 40mm Pull Tab</td>
</tr>
<tr>
<td>R</td>
<td>Uniboot Polarity Switchable with Pull Tab</td>
</tr>
</tbody>
</table>

#### MPO Type End 1

**Leave Blank for Non-MPO Connector**

**Choose 1 Option for Each Feature:**

- **1** = 12 or **2** = 24 Fiber Connector
- **S** = Standard or **E** = Elite Ferrule
- **F** = Female or **M** = Male Guide Pins
- **N** = No Pull Tab or **P** = Pull Tab

**Choose a wiring method:**

- **A** = A, **B** = B, **C** = C, **1** = 1, or **2** = 2
- **B8** = Base 8
- **B20** = Base 20

**Leave Blank for Non-MPO to MPO Assembly**

#### Breakout Type End 1

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>900μm (Color Coded)</td>
</tr>
<tr>
<td>2</td>
<td>2mm (Std. Indoor Jacket Color)</td>
</tr>
<tr>
<td>3</td>
<td>3mm (Std. Indoor Jacket Color)</td>
</tr>
</tbody>
</table>

#### Breakout Length End 1

**XXX = Length in Inches**

*Typically: 18", 24", or 36”*

**Note:** If the MFC configuration requires the use of subunits, the subunits will be 8” unless specified

#### Pulling Eye

**Leave Blank for No Pulling Eye**

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE1</td>
<td>Pulling Eye on End 1</td>
</tr>
<tr>
<td>PE2</td>
<td>Pulling Eye on End 2</td>
</tr>
</tbody>
</table>

---

**Part Number**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFC-</td>
<td></td>
</tr>
</tbody>
</table>

**1** Fiber Type

**2** Number of Fibers

**3** Cable Construction

**4** Cable Type

**5** Jacket Rating

**6** Armor

**7** Connector Type End 1

**8** LC Type End 1

**9** MPO Type End 1

**10** Breakout Type End 1

**11** Breakout Length End 1

**12** Connector and Breakout Options End 2

**13** Overall Cable Length

**14** Pulling Eye
ARIA Technologies offers a complete line of simplex and duplex jumpers in singlemode and multimode configurations with Corning and Prysmian/Draka fiber.

All jumpers are manufactured to meet or exceed Telcordia GR326-CORE Issue 4 specifications.

They are tested for proper endface clarity, insertion loss, return loss, and endface geometry to ensure peak optical performance.

ARIA patch cords are available in a variety of fiber types, jacket sizes, flame/smoke ratings, and connector types.

Endface Clarity, Insertion & Return Loss Testing

Endface Clarity is the cleanliness and smoothness of the connector endface

Insertion Loss refers to the amount of optical power lost through a jumper

Return Loss refers to the optical power reflected at the connector toward the source

Endface Geometry Testing

Radius of curvature is the roundness of the ferrule’s endface

Fiber height is the height or depth that the fiber core protrudes or undercuts the ferrule endface

Apex offset is the distance between the highest point of the polished ferrule’s endface and the fiber’s axis

Testing Requirements

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endface Clarity</td>
<td>No scratches, pits, dirt, or oil at 400x magnification</td>
</tr>
<tr>
<td>Insertion Loss (dB)</td>
<td>0.20 Maximum, &lt;0.15 Typical</td>
</tr>
<tr>
<td>MPO Insertion Loss (dB)</td>
<td>0.35 (Elite), 0.75 (Singlemode), 0.60 (Multimode)</td>
</tr>
<tr>
<td>Return Loss (dB)</td>
<td>&lt;55 (UPC Connectors), &lt;65 (APC)</td>
</tr>
<tr>
<td>Radius of Curvature</td>
<td>7 to 25 (UPC and MM Connectors), 5 to 12 (APC)</td>
</tr>
<tr>
<td>Fiber Height (nm)</td>
<td>±50 (UPC and MM Connectors), ±100 (APC)</td>
</tr>
<tr>
<td>Apex Offset (µm)</td>
<td>&lt;50</td>
</tr>
</tbody>
</table>

PASS
Connector Examples

- MPO/APC
- MPO/APC with Pull Tab
- SC/APC Simplex
- SC/UPC Duplex
- LC/UPC Duplex
- ST Duplex OM2
- LC/UPC 50° Boot
- LC/UPC Simplex Blue
- CS/UPC
- SN/UPC

Jumper Examples

- Singlemode LC to LC
- Singlemode SC to LC
- Singlemode SC to SC
- Multimode OM3 LC to LC
- Multimode OM3 SC to LC
- Multimode OM3 SC to SC
- Singlemode MPO/APC
- Singlemode SC/APC to FC/APC Simplex
- Singlemode SC/UPC to LC/UPC Simplex
Jumpers (Patch Cords)
Fiber Optic Cable Assemblies

High Density Connectors Available
SC & LC uniboot connectors reduce fiber congestion
LC connectors with pull tabs ease connector insertion and removal
LC uniboot polarity switchable connectors reduce fiber congestion and provide polarity flexibility

Switching the Polarity on Uniboot Polarity Switchable Connectors
Unlock the Latch or Pull Tab On the Bottom of the Connector
Remove the Latch or Pull Tab and Rotate it 180°
Install the Latch or Pull Tab

Switching the Polarity on LC Pull Boot Connectors
Unlock the Latch On the Bottom of the Connector
Remove the Latch Then Rotate The Plugs and Latch 180°
Install the Latch

CS, SN, and MDC Connectors Available
Reels Available for Long Lengths

Ultra high density 1.25mm (LC) ferruled connectors for next generation transceiver and datacenter applications

ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity™

(925) 447-7500
sales@ariatech.com
www.ariatech.com
### Part Number

<table>
<thead>
<tr>
<th>JMP-</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
</tr>
</thead>
</table>

#### Cable Size
- 16 = 1.6 mm
- 20 = 2.0 mm
- 30 = 3.0 mm
*For MPO connectors or armored cable only
Note: 900μm and 1.2 mm are available upon request

#### Cable Construction
- SX = Simplex
- DX = Duplex (Zipcord)
- 2R = 2 Fiber Round*
- MC = Microcore Round**
*Uniboot connector types only
**MPO connector types only

#### Jacket Rating
- R = Riser (OFNR)
- P = Plenum (OFNP)
- L = Low Smoke Zero Halogen (LSZH)

#### Fiber Type
- S = SM 9/125μm G.652.D
- B = SM 9/125μm Bend Insensitive G.657.A1
- 1 = MM 62.5/125μm OM1
- 2 = MM 50/125μm OM2
- 3 = MM 50/125μm OM3
- 4 = MM 50/125μm OM4
- 5 = MM 50/125μm OM5

#### Jacket Color
- Leave Blank for Standard Indoor Jacket Color
- BL = Blue
- VL = Violet
- GR = Green
- RD = Red

#### Connector Type End 1
- SC = SC
- SB = SC Uniboot
- LC = LC
- FC = FC
- ST = ST
- MP = MPO
- E2 = E2000
- CS = CS
- SN = SN
- MD = MDC
- 00 = No Connector

#### Polish Type End 1
- U = Singlemode UPC
- A = Singlemode APC*
- M = Multimode PC
- F = Multimode Flat**
- 0 = No Connector
*Select for Singlemode MPOs and Unavailable for ST
** Select for Multimode MPOs

#### LC Type End 1
- Leave Blank for Standard LC Connector or Non-LC Connector
- A = 50° Boot
- F = Flat Pull Tab
- U = Uniboot*
- S = Uniboot Polarity Switchable*
- 2 = Uniboot 20mm Pull Tab*
- 4 = Uniboot 40mm Pull Tab*
- R = Uniboot Polarity Switchable with Pull Tab*
- P = Uniboot Pull Boot Polarity Switchable*
*2 Fiber Round Cable Only

#### MPO Type End 1
- Leave Blank for Non-MPO Connector
Choose 1 Option for Each Feature:
- 1 = 12 or 2 = 24 Fiber Connector
- S = Standard or E = Elite Ferrule
- F = Female or M = Male Guide Pins
- N = No Pull Tab or P = Pull Tab
Choose a wiring method:
- A = Method A (12-Fiber MPO)
- B = Method B (12-Fiber MPO)
- C = Method C (12-Fiber MPO)
- 1 = Option 1 (24-Fiber MPO)
- 2 = Option 2 (24-Fiber MPO)
- 0 = Non-MPO to MPO Assembly

#### Duplex Clips End 1
- Leave Blank for Simplex, FC, ST, MPO, E2000, or Uniboot Connectors
- NC = No Duplex Clips
- DC = Duplex Clips

#### Connector Options End 2
- See Options for End 1

#### Length
- XXXF = Length in Feet
- XXXM = Length in Meters
Rugged Jumpers
Fiber Optic Cable Assemblies

Rugged Jumpers provide improved durability over standard jumper constructions.

Black jackets provide UV resistance for outdoor use and TPU jackets have a wider operating temperature range.

Larger cable diameters provide improved tensile strength.

Cable armor increases crush resistance.

Exposed strength members support safe cable pulling.

These patch cords work well in outside plant cross-connect cabinets, FTTA, and when splicing FTTH drops in a NID or ONT.

Different Jacket and Fiber Types Available

Features
- Robust transition design provides a durable and waterproof breakout from the cable jacket
- UV resistant jacket options prevent oxidation
- Armored cables provide superior crush resistance and durability
- Available in any custom configuration

Rugged Transitions

Connector Examples

2.0mm with Pull Tab LC

3.0mm with Pull Tab LC

4.8mm with Pull Tab LC

3.0mm with Uniboot LC
Rugged Jumpers
Fiber Optic Cable Assemblies

### 2mm or 3mm TPU or OFNR

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable O.D. (mm)</td>
<td>2.0 / 3.0</td>
</tr>
<tr>
<td>Breakout O.D. (mm)</td>
<td>N/A</td>
</tr>
<tr>
<td>Jacket Material</td>
<td>T/OFNR</td>
</tr>
<tr>
<td>Long / Short Term Tensile Strength (N)</td>
<td>80 / 150</td>
</tr>
<tr>
<td>Long / Short Term Crush Resistance (N/100mm)</td>
<td>100 / 500</td>
</tr>
<tr>
<td>Operating Temp. (°C)</td>
<td>-20~+85</td>
</tr>
</tbody>
</table>

*Example: 2-Fiber Round 2mm OFNR Uniboot LC/UPC*

Note: Available in duplex or 2-fiber round configurations in a 2mm or 3mm jacket

Standard jumper construction with a UV resistant jacket

### 3mm OFNR Armored

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Cable O.D. (mm)</td>
<td>3.0</td>
</tr>
<tr>
<td>Breakout O.D. (mm)</td>
<td>N/A</td>
</tr>
<tr>
<td>Jacket Material</td>
<td>OFNR</td>
</tr>
<tr>
<td>Long / Short Term Tensile Strength (N)</td>
<td>200 / 400</td>
</tr>
<tr>
<td>Long / Short Term Crush Resistance (N/100mm)</td>
<td>1,000 / 3,000</td>
</tr>
<tr>
<td>Operating Temp. (°C)</td>
<td>-20~+70</td>
</tr>
</tbody>
</table>

*Example: Duplex LC/UPC*

Note: Available in simplex or duplex with an indoor or indoor/outdoor jacket

Flexible spiral armor provides superior crush resistance

### 4.8mm LSZH

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Cable O.D. (mm)</td>
<td>4.8±0.5</td>
</tr>
<tr>
<td>Breakout O.D. (mm)</td>
<td>2.0-3.6</td>
</tr>
<tr>
<td>Jacket Material</td>
<td>LSZH</td>
</tr>
<tr>
<td>Long / Short Term Tensile Strength (N)</td>
<td>500 / 1,000</td>
</tr>
<tr>
<td>Long / Short Term Crush Resistance (N/100mm)</td>
<td>500 / 1,500</td>
</tr>
<tr>
<td>Operating Temp. (°C)</td>
<td>-20~+60</td>
</tr>
</tbody>
</table>

*Example: LC/UPC with 3.6mm Breakout*

Larger UV resistant jacket provides improved durability over standard jumper sizes.
## Rugged Jumpers
### Fiber Optic Cable Assemblies

**Part Number**

```
RGJ- - - - - - - - - - - -
```

<table>
<thead>
<tr>
<th>Column 1</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Cable Size</td>
</tr>
<tr>
<td>20</td>
<td>2.0mm</td>
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<tr>
<td>30</td>
<td>3.0mm</td>
</tr>
<tr>
<td>48</td>
<td>4.8mm</td>
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<thead>
<tr>
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<th>Description</th>
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</thead>
<tbody>
<tr>
<td>2</td>
<td>Construction</td>
</tr>
<tr>
<td>SX</td>
<td>Simplex</td>
</tr>
<tr>
<td>DX</td>
<td>Duplex Zipcord</td>
</tr>
<tr>
<td>RD</td>
<td>2-Fiber Round</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Column 3</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Armor</td>
</tr>
<tr>
<td>N</td>
<td>No Armor</td>
</tr>
<tr>
<td>I</td>
<td>Inner Armor</td>
</tr>
<tr>
<td>X</td>
<td>Inner Armor &amp; Braided</td>
</tr>
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<table>
<thead>
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<th>Column 4</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>4</td>
<td>Jacket Rating</td>
</tr>
<tr>
<td>T</td>
<td>No Rating (TPU)</td>
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<tr>
<td>R</td>
<td>Riser (OFNR)</td>
</tr>
<tr>
<td>P</td>
<td>Plenum (OFNP)</td>
</tr>
<tr>
<td>L</td>
<td>Low Smoke Zero Halogen (LSZH)</td>
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<table>
<thead>
<tr>
<th>Column 5</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>5</td>
<td>Fiber Type</td>
</tr>
<tr>
<td>S</td>
<td>SM 9/125μm G.652.D</td>
</tr>
<tr>
<td>B</td>
<td>SM 9/125μm Bend Insensitive G.657.A1</td>
</tr>
<tr>
<td>1</td>
<td>MM 62.5/125μm OM1</td>
</tr>
<tr>
<td>2</td>
<td>MM 50/125μm OM2</td>
</tr>
<tr>
<td>3</td>
<td>MM 50/125μm OM3</td>
</tr>
<tr>
<td>4</td>
<td>MM 50/125μm OM4</td>
</tr>
<tr>
<td>5</td>
<td>MM 50/125μm OM5</td>
</tr>
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<table>
<thead>
<tr>
<th>Column 6</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Connector Type End 1</td>
</tr>
<tr>
<td>SC</td>
<td>SC</td>
</tr>
<tr>
<td>SB</td>
<td>SC Uniboot*</td>
</tr>
<tr>
<td>LC</td>
<td>LC</td>
</tr>
<tr>
<td>FC</td>
<td>FC</td>
</tr>
<tr>
<td>ST</td>
<td>ST</td>
</tr>
<tr>
<td>E2</td>
<td>E2000</td>
</tr>
<tr>
<td>00</td>
<td>No Connector</td>
</tr>
<tr>
<td>*Not available with zipcord</td>
<td></td>
</tr>
<tr>
<td>Note: Add NC to Remove Duplex Clips on Non-Uniboot Connectors</td>
<td></td>
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<table>
<thead>
<tr>
<th>Column 7</th>
<th>Description</th>
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<tbody>
<tr>
<td>7</td>
<td>LC Type End 1</td>
</tr>
<tr>
<td>A</td>
<td>50° Boot</td>
</tr>
<tr>
<td>F</td>
<td>Flat Pull Tab</td>
</tr>
<tr>
<td>U</td>
<td>Uniboot*</td>
</tr>
<tr>
<td>P</td>
<td>Uniboot Polarity Switchable*</td>
</tr>
<tr>
<td>2</td>
<td>Uniboot 20mm Pull Tab*</td>
</tr>
<tr>
<td>4</td>
<td>Uniboot 40mm Pull Tab*</td>
</tr>
<tr>
<td>R</td>
<td>Uniboot Polarity Switchable with Pull Tab*</td>
</tr>
<tr>
<td>P</td>
<td>Uniboot Pull Boot Polarity Switchable*</td>
</tr>
<tr>
<td>*Not available with zipcord</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Column 8</th>
<th>Description</th>
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<tbody>
<tr>
<td>8</td>
<td>Breakout Type End 1</td>
</tr>
<tr>
<td>Leave Blank for simplex or duplex 2.0mm or 3.0mm cable sizes.</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>2mm</td>
</tr>
<tr>
<td>36</td>
<td>2mm with 3.6mm Black Heatshrink</td>
</tr>
<tr>
<td>3I</td>
<td>3mm Black with Inner Armor</td>
</tr>
<tr>
<td>*Note: Add SM for exposed strength members on 7mm cable only.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Column 9</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Breakout Length End 1</td>
</tr>
<tr>
<td>Leave Blank for simplex or duplex 2.0mm or 3.0mm cable sizes</td>
<td></td>
</tr>
<tr>
<td>XXX</td>
<td>Length in Inches (Typically: 18&quot;, 24&quot;, or 36&quot;)</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Column 10</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Connector &amp; Breakout Options End 2</td>
</tr>
<tr>
<td>See Options in Connector Type &amp; Breakout End 1</td>
<td></td>
</tr>
</tbody>
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<table>
<thead>
<tr>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Length</td>
</tr>
<tr>
<td>XXXF</td>
<td>Length in Feet</td>
</tr>
<tr>
<td>XXXM</td>
<td>Length in Meters</td>
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<table>
<thead>
<tr>
<th>Column 12</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>Pulling Eye</td>
</tr>
<tr>
<td>Leave Blank for No Pulling Eye</td>
<td></td>
</tr>
<tr>
<td>PE1</td>
<td>Pulling Eye on End 1</td>
</tr>
<tr>
<td>PE2</td>
<td>Pulling Eye on End 2</td>
</tr>
</tbody>
</table>
ARIA Service Cables (Node Tails) provide connectivity to an Optical Network Unit (ONU).

These optical amplifier drop cable assemblies feature a rugged design and eliminate the need for additional splice points and hardware at the amplifier location.

This unique product provides the end-user with the ability to configure the system with pre-terminated cables dropped at the node location and splice enclosure.

Cable lengths up to 1,000 feet can be supplied to eliminate additional splice points, hardware, and labor time at the node location.

To guarantee the flexibility necessary inside the amplifier or node housing, different fanout support tube lengths and a variety of fiber optic connector types are available.

Overview

The furcation unit terminates the cable with 2.0mm fan-out tubes for each 250μm fiber.

The entry connector encloses the outside plant cable with a waterproof connection that secures the armored jacket if present and provides a stable strong connection to the amplifier housing using the industry standard thread size.

The connectors and fibers can be fed into the amplifier housing from the outside.

In order to prevent water penetration with any entry connector, use Raychem or Canusa epoxy lined heatshrink with moisture block. This will also resist potential destructive forces on the cable. 8 inches of Canusa epoxy lined heatshrink, connector cleaning instructions, and installation instructions are included with each Service Cable.

Features

- Available in cable lengths up to 1,000 feet
- Standard lengths are 25, 50, 75, 100, and 150 feet
- Provides protection against inside and outside water penetration when coupled with heatshrink
- The Opto-Entry fitting eliminates pistoning of the cable core and provides a pull strength of 450 lbs
- Rugged design
- Provides time savings and easy installation
- Guarantees maximum clearance inside the amplifier housing
- Average UPC Return Loss: -55dB
- Average APC Return Loss: -65dB

90 Degree Fitting Available
Service Cables (Node Tails)
Fiber Optic Cable Assemblies

Node Tail Installed w/ Straight Fitting  Node Tail Installed w/ 90 Degree Fitting

Part Number

NT- - - - - - -
1 2 3 4 5 6 7

1 Cable Type
AR = Outside Plant Armored
NA = Outside Plant Non-Armored
Contact sales department for more cable options

2 Number of Fibers
XX = XX Fibers
Example: 12 = 12 Fibers
Note: 24 Fibers Maximum

3 Connector Type
SC = SC
LC = LC
FC = FC
ST = ST
E2 = E2000
00 = No Connector

Note: Add NC to Remove Duplex Clips on Non-Uniboot SC or Non-Uniboot LC Connectors

3 Polish Type
U = UPC
A = APC*
0 = No Connector
*Unavailable for ST

4 Breakout Length
XX = Length in Inches
Example: 36 = 36 inches

5 Breakout Diameter
2 = 2mm
9 = 900μm

6 Fitting Type
OE = Opto-Entry (5/8“-24)
90 = Opto-Entry (5/8“-24) with 90 Degree Fitting

7 Overall Cable Length
Add -PE for a Pulling Eye
XXXF = XXX Feet
XXXM = XXX Meters

ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity™

(925) 447-7500
sales@ariatech.com
www.ariatech.com
Hardened Connector Assemblies

Fiber Optic Cable Assemblies

Hardened Connector Assemblies feature weatherproof connectors and outdoor rated cable.

They are available with: ODVA, SC/APC H-Connector, FULLAxs, IPFX, or ODLC connector formats.

All assemblies come with an hardened connectors on one end and hardened connectors or standard connectors on the other end.

**ODVA**

**H-Connector**

**FullAxs**

**IPFX**

**ODLC**

**Features**

- Meets IP67 standards and environmentally protected solution for optical connectivity in areas exposed to elements such as rain, snow, dirt, and other types of contamination.
- No tools required for insertion or removal.
- Easy to use bayonet style or threaded connectors require no tools for mating.
- Designed for harsh environment applications.
- Tethered cap and flexible boot eases installation.
- 5.0 or 7.0mm jacket sizes available for all connector formats. 2.0mm cable is available for ODLC sockets. Flat drop cable is available for H-connectors only.
- ODLC assemblies mate using a socket and plug interface and feature LC-style 1.25mm ceramic ferrules for 2-4 fiber connectors and MT-style ferrules for 12-24 fiber connectors.
- ODVA Adapters are compatible with ARIA’s NEMA 4 Rated AWM Series & ODE Wallmount Enclosures. These adapters can be used with any enclosure up to 0.158” (4mm) thick with a 1.08”-1.25” sized hole.

**Applications**

- Outdoor events, shows, or anywhere rugged or weatherproof connectivity is required.
- FTTH or FTTMDU.
- FTTA cell tower Remote Radio Units (RRU) or RRH.
- Industrial machinery or diagnostic equipment.

**IP67 Rated**

**Solid Particle Protection**

IP First Digit Rating Level: 6

Totally protected against dust ingress (dust-tight).

**Liquid Ingress Protection**

IP Second Digit Rating Level: 7

Protected from water ingress while immersed in shallow water.
Hardened Connector Assemblies
Fiber Optic Cable Assemblies

ODVA Patchcord Examples

- ODVA Duplex LC/UPC to Duplex LC/UPC Patchcord
- ODVA Duplex LC/APC to Duplex LC/APC Patchcord
- ODVA SC/UPC to SC/UPC Patchcord
- ODVA SC/APC to SC/APC Patchcord
- ODVA MPO to MPO Patchcord

ODVA Adapter Mounting

H-Connector Pigtail

FullAxs Patchcord Examples

- LC

IPFX Patchcord Examples

- SC
- MPO

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Fiber Optic Cable Assemblies

ODLC Patchcord Examples

ODLC-2  ODLC-4  ODLC-12/24

ODLC Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing Material</td>
<td>Nickel-Plated Brass</td>
</tr>
<tr>
<td>Plug Mechanical Performance</td>
<td>(\leq 800 \text{ N Tensile Load and } \leq 30 \text{ N Static Side Load})</td>
</tr>
<tr>
<td>Socket Mechanical Performance</td>
<td>(\leq 30 \text{ N Tensile Load})</td>
</tr>
<tr>
<td>Installation Torque Force</td>
<td>40 in.lbs.</td>
</tr>
<tr>
<td>Operating Temperature (IEC 61300-2-22)</td>
<td>(-40 \text{ up to } +85^\circ\text{C})</td>
</tr>
<tr>
<td>Mating Durability</td>
<td>1000 Cycles</td>
</tr>
<tr>
<td>Ingress protection (mated) (IEC 60529)</td>
<td>IP 67</td>
</tr>
<tr>
<td>Salt mist (IEC 61300-2-26)</td>
<td>Passed 30 days</td>
</tr>
<tr>
<td>Vibration (IEC 61300-2-1)</td>
<td>Passed 10 to 500 Hz/10 g</td>
</tr>
<tr>
<td>Shock (IEC 61300-2-9)</td>
<td>Passed 100 g</td>
</tr>
<tr>
<td>ODLC-2/4 Insertion Loss (IEC 61300-3-34)</td>
<td>Typical: (\leq 0.20 \text{ dB}), Max: (0.35 \text{ dB})</td>
</tr>
<tr>
<td>ODLC-12/24 Insertion Loss (IEC 61300-3-34)</td>
<td>Typical: (\leq 0.35 \text{ dB}), Max: (0.45 \text{ dB})</td>
</tr>
<tr>
<td>ODLC-2/4 Return Loss (SM Only)</td>
<td>Typical: -55 dB, Max: -50 dB</td>
</tr>
<tr>
<td>ODLC-12/24 Return Loss (SM Only)</td>
<td>Typical: -65 dB, Max: -60 dB</td>
</tr>
</tbody>
</table>

ODLC Socket and Plug Interface

Mount the socket, remove the dust caps, align the keys, insert the plug, and tighten the nut.
Hardened Connector Assemblies
Fiber Optic Cable Assemblies

Accessories

ODVA LC/UPC to LC/UPC Adapter
P/N: ODVA-A-LCU

ODVA LC/APC to LC/APC Adapter
P/N: ODVA-A-LCA

ODVA SC/UPC to SC/UPC Adapter
P/N: ODVA-A-SCU

ODVA SC/APC to SC/APC Adapter
P/N: ODVA-A-SCA

ODVA MPO to MPO Adapter
P/N: ODVA-A-MPO

ODVA LC/UPC to ODVA LC/UPC
P/N: ODVA-I-LCU

ODVA LC/APC to ODVA LC/APC
P/N: ODVA-I-LCA

ODVA SC/UPC to ODVA SC/UPC
P/N: ODVA-I-SCU

ODVA SC/APC to ODVA SC/APC
P/N: ODVA-I-SCA

ODVA MPO to ODVA MPO Adapter
P/N: ODVA-I-MPO

Click Cleaner for ODLC Connectors
P/N: 12910

Click Cleaner for ODLC 12-24F Plug Connectors
P/N: IBC-ODMC-P

Click Cleaner for ODLC 12-24F Socket Connect.
P/N: IBC-ODMC-S

Security Sleeve and Tool
to Prevent Unauthorized Disconnections
P/N: ODLC-SECURITYSLEEVEKIT

Extra ODLC Plug Dust Cap
P/N: ODLC-PLUG-DUSTCAP

Extra ODLC Socket Dust Cap
P/N: ODLC-SOCKET-DUSTCAP

H-Connector to SC/APC Adapter
P/N: H-CONNECTOR-ADAPTER

ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity™

(925) 447-7500
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www.ariatech.com
# Fiber Optic Cable Assemblies

## Part Number

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCA- - - - - - - - - - -</td>
<td><strong>Hardened Connector Assemblies</strong></td>
</tr>
</tbody>
</table>

### Cable Size
- 2 = 2.0mm*
- 5 = 5.0 mm
- 7 = 7.0 mm
- F = Flat Drop**
*For use with ODLC Socket Inside of Enclosure Only
**For H-Connector Only

### Connector Type End 1
- SC = SC*
- LC = LC
- MP = MPO
*Unavailable for ODLC

### Polish Type End 1
- U = Singlemode UPC
- A = Singlemode APC*
- M = Multimode PC
- F = Multimode Flat**
*Select for Singlemode MPOs and Unavailable for ST and ODLC 2-4F
**Select for Multimode MPOs

### Cable
- R = Indoor/Outdoor OFNR
- O = Outdoor
- RR = Outdoor Dielectric Rodent Resistant

### Fiber Count
- XX = XX Fibers (Up to 24)

### Fiber Type
- S = SM 9/125μm G.652.D
- B = SM 9/125μm Bend Insensitive G.657.A1
- 1 = MM 62.5/125μm OM1
- 2 = MM 50/125μm OM2
- 3 = MM 50/125μm OM3
- 4 = MM 50/125μm OM4

### Format End 1
- O = ODVA
- H = H-Connector*
- A = FullAxs
- F = IPFX
- S = ODLC Socket
- P = ODLC Plug
*Available in SC/APC Only

### Polish Type End 2
- U = Singlemode UPC
- A = Singlemode APC*
- F = Multimode Flat**
*Select for Multimode MPOs

### MPO Type End 2
- Leave Blank for Non-MPO Connector
- Choose 1 option for each feature:
  - 1 = 12 or 2 = 24 Fiber Connector
  - 1 = Option 1 (24-Fiber MPO)
  - 2 = Option 2 (24-Fiber MPO)
  - 0 = Non-MPO to MPO assembly

### Length
- Add -PE for a Pulling Eye
- XXXF = Length in Feet
- XXXM = Length in Meters

### Connector Type End 2
- SC = SC
- LC = LC
- FC = FC*
- ST = ST*
- E2 = E2000*
- MP = MPO
- 00 = No Connector
*Only Available for Regular Format Connectors

---

**ARIA TECHNOLOGIES, INC.**

**Fiber Optic Connectivity**

(925) 447-7500
sales@ariatech.com
www.ariatech.com
Pushable Drop Assemblies
Fiber Optic Cable Assemblies

Pushable drop assemblies feature a compact and rugged pulling eye that protects a partially assembled SC or LC connector.

Once the assembly is at its desired location, the pulling eye is removed and the SC housing or LC latch is installed completing the connector assembly.

Assembles in Seconds

Features
• Supports rapid low cost FTTX deployment
• User friendly design
• Rugged and IP65 rated pulling eye protects the connector and simply unthreads when needed
• Compact shape supports microduct or other small cable pathways
• Telcordia GR-326-CORE certified
• Indoor/Outdoor OFNR 3.0mm armored or non-armored cables available with singlemode bend-insensitive G.657.A1 fiber

Compact Rugged Design

Part Number

PDA-  -  -  -

1. Cable Armor
   N = Non-Armored
   A = Armored

2. Pushable Connector
   Type End 1
   SPA = SC/APC
   SPU = SC/UPC
   LPA = LC/APC
   LPU = LC/UPC

3. Standard Connector
   Type End 2
   SCA = SC/APC
   SCU = SC/UPC
   LCA = LC/APC
   LCU = LC/UPC

4. Length
   XXXF = Length in Feet
   XXXM = Length in Meters

ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity™

(925) 447-7500
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FiberPatch™ Series Cassettes

FiberPatch™ is a compact fiber optic module that is supplied with adapters for connector patching on one end and a pre-terminated cable pigtail for splicing on the other end.

Fiber counts up to 48 and lengths as long as 1 km can be supplied with OFNR, OFNP, interlocking armor plenum, indoor/outdoor, OSP non-armored, OSP armored, flat drop, or alternative jacket cable.

This unique product can eliminate splicing at the building entrance, customer premise, or cell tower cabinet. It only requires splicing in a manhole/OSP splice case or building demarcation point.

Instead of installing conduit, pulling fiber through it, and then splicing pigtails, FiberPatch™ can be supplied as a system with cable, conduit, connectors, and an enclosure.

Features

• ARIA FiberPatch™ is mountable in a variety of hardware and is offered with many pre-terminated cable options.
• FiberPatch™ is offered in LGX, CCH, and 1RU formats. The LGX and CCH formats can be installed in any rackmount or wallmount enclosure that supports LGX or CCH type cassettes.
• FiberPatch™ is compact and minimizes the use of crucial rack or wall space.

FiberPatch™ is provided on a reel when it is supplied with a cable length of at least 250 ft

FiberPatch™ with Non-Armored Alternative Jacket Cable and Pulling Eye Shown

Interlocking armor cable also known as "cable in conduit" greatly reduces installation time and cost
## FiberPatch™ Series Cassettes

### Cassettes and Modules

#### LGX FiberPatch™

![LGX FiberPatch™](image)

**Specifications**

<table>
<thead>
<tr>
<th>Dimensions (Inches)</th>
<th>1.1 x 5.1 x 4.0 (HxWxD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiber Capacity</td>
<td>12 SC or 24 LC</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Aluminum</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Black Powder Coat</td>
</tr>
<tr>
<td>Compatibility</td>
<td>LGX Adapter Plate Openings</td>
</tr>
<tr>
<td>Notable Features</td>
<td>Compact Size</td>
</tr>
</tbody>
</table>

#### CCH FiberPatch™

![CCH FiberPatch™](image)

**Specifications**

<table>
<thead>
<tr>
<th>Dimensions (Inches)</th>
<th>1.4 x 6.1 x 4.4 (HxWxD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiber Capacity</td>
<td>12 SC or 24 LC</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Aluminum</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Black Powder Coat</td>
</tr>
<tr>
<td>Compatibility</td>
<td>CCH Adapter Plate Openings</td>
</tr>
<tr>
<td>Notable Features</td>
<td>Large cable O.D. support and great connector accessibility</td>
</tr>
</tbody>
</table>

#### 1RU FiberPatch™

![1RU FiberPatch™](image)

**Specifications**

<table>
<thead>
<tr>
<th>Dimensions (Inches)</th>
<th>1.75 x 8.5 x 3.4 (HxWxD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiber Capacity</td>
<td>24 SC or 48 LC</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Aluminum</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Black Powder Coat</td>
</tr>
<tr>
<td>Compatibility</td>
<td>1RU Rackmount</td>
</tr>
<tr>
<td>Notable Features</td>
<td>Support for two large cables, great connector accessibility, and fiber management rings</td>
</tr>
</tbody>
</table>
Mounting Options

Wallmount brackets can be utilized to mount FiberPatch™ directly onto a wall

Open top Wallmount/Rackmount brackets can be utilized to mount multiple modules on a wall

Open top Wallmount/Rackmount brackets can be utilized to mount multiple modules in a rack

Open top Wallmount/Rackmount brackets can be utilized to mount multiple modules in a cell tower cabinet

The shroud accessory protects the patchcords from damage when the FiberPatch™ is mounted on a wall

The shroud with door accessory protects the patchcords and allows quick access to them after installation

Need MPO Connectivity?

ARIA’s MPO Plug and Play Cassettes are similar to FiberPatch™ but provide an MPO adapter on the rear of the cassette instead of the pre-terminated stub.

This feature allows the module to interconnect MPO/MTP® backbones and patch cords.

This product is available in the following configurations:
12 Fiber SC to 12 Fiber MPO
12 Fiber LC to 12 Fiber MPO
24 Fiber LC to Dual 12 Fiber MPO
Applications: MDU Drops to Customer Premises

In this instance, the Pre-terminated FiberPatch™ is located at the customer premises and the spooled indoor/outdoor cable is routed outside to the manhole and spliced.

This method eliminates the costly splicing of fibers at both the building entrance and at the customer premises which results in savings of thousands of dollars in labor and materials as well as faster customer hook-up.

Applications: Drops to ITS Cabinets

Cabinets or cell tower shelter racks can sometimes be loaded to capacity leaving no room for rack mount enclosures.

The ARIA FiberPatch™ provides the perfect solution to this problem.

Just mount the compact ARIA FiberPatch™ on the wall and route the cable to manholes or where splice cases are located for transition to backbone cables.

In this instance, the Pre-terminated FiberPatch™ is located at the customer premises and the spooled OFNR or OFNP cable is routed to the basement or building entry point and is spliced in an indoor rated splice-only enclosure (ARIA SPLWM shown above).

Another splice is performed at the manhole in an OSP Splice Case.
FiberPatch™ Series Cassettes
Cassettes and Modules

Accessories

19”-23” Extension Bracket for 1RU Wallmount/Rackmount Bracket (P/N: 19-23-REB-1RU-ALUM)
19”-23” Extension Bracket for 2RU Wallmount/Rackmount Bracket (P/N: 19-23-REB-2RU-STL0)
FiberPatch™ Wallmount Bracket (P/N: (Ordered with FiberPatch™ Part Number))

3 Module 1RU LGX Wallmount/Rackmount Bracket P/N: 3XLGXW-RBRACKET-B-OT
2 Module 1RU CCH Wallmount/Rackmount Bracket P/N: 2XCCHW-RBRACKET-B-OT

6 Module 2RU LGX Wallmount/Rackmount Bracket P/N: 6XLGXW-RBRACKET-B-OT
4 Module 2RU CCH Wallmount/Rackmount Bracket P/N: 4XCCHW-RBRACKET-B-OT

2 Module LGX Wallmount Bracket P/N: 2XLGXWMBRACKET-B-OT
2 Module CCH Wallmount Bracket P/N: 2XCCHWMBRACKET-B-OT

LGX FiberPatch™ Shroud with Door (P/N: AFP-LGX-SHROUD-WD)
LGX FiberPatch™ Shroud P/N: AFP-LGX-SHROUD
CCH FiberPatch™ Shroud P/N: AFP-CCH-SHROUD
CCH FiberPatch™ Shroud with Door (P/N: AFP-CCH-SHROUD-WD)
FiberPatch™ Series Cassettes
Cassettes and Modules

Part Number

<table>
<thead>
<tr>
<th>1</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>LGX = LGX FiberPatch™</td>
<td></td>
</tr>
<tr>
<td>CCH = CCH FiberPatch™</td>
<td></td>
</tr>
<tr>
<td>1RU = 1RU FiberPatch™</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2</th>
<th>Port Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>06 = 6 Port (SC/FC/ST)</td>
<td></td>
</tr>
<tr>
<td>08 = 8 Port (SC/FC/ST)</td>
<td></td>
</tr>
<tr>
<td>12 = 12 Port (SC/LC/FC/ST)</td>
<td></td>
</tr>
<tr>
<td>24 = 24 Port (FiberPatch™: LC or 1RU FiberPatch™: SC)</td>
<td></td>
</tr>
<tr>
<td>48 = 48 Port (1RU FiberPatch™: LC)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3</th>
<th>Adapter Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC = SC</td>
<td></td>
</tr>
<tr>
<td>LC = LC</td>
<td></td>
</tr>
<tr>
<td>FC = FC</td>
<td></td>
</tr>
<tr>
<td>ST = ST</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3</th>
<th>Polish Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>U = Singlemode UPC</td>
<td></td>
</tr>
<tr>
<td>A = Singlemode APC*</td>
<td></td>
</tr>
<tr>
<td>M = Multimode PC</td>
<td></td>
</tr>
</tbody>
</table>

*Unavailable for ST

<table>
<thead>
<tr>
<th>4</th>
<th>Fiber Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>S = SM 9/125μm G.652.D</td>
<td></td>
</tr>
<tr>
<td>B = SM 9/125μm Bend Insensitive G.657.A1</td>
<td></td>
</tr>
<tr>
<td>1 = MM 62.5/125μm OM1</td>
<td></td>
</tr>
<tr>
<td>2 = MM 50/125μm OM2</td>
<td></td>
</tr>
<tr>
<td>3 = MM 50/125μm OM3</td>
<td></td>
</tr>
<tr>
<td>4 = MM 50/125μm OM4</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5</th>
<th>Stub Cable Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leave Blank for No Stub</td>
<td></td>
</tr>
<tr>
<td>D = Distribution (I or X)</td>
<td></td>
</tr>
<tr>
<td>B = Breakout (X)</td>
<td></td>
</tr>
<tr>
<td>M = Micro Round (I, X, or O)</td>
<td></td>
</tr>
<tr>
<td>L = Loose Tube (X or O)</td>
<td></td>
</tr>
<tr>
<td>R = Ribbon (I, X, or O)</td>
<td></td>
</tr>
<tr>
<td>F = Flat Drop (Up to 24F) (O)</td>
<td></td>
</tr>
<tr>
<td>(I) = Indoor Only</td>
<td></td>
</tr>
<tr>
<td>(X) = Indoor/Outdoor Only</td>
<td></td>
</tr>
<tr>
<td>(O) = Outdoor Only</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6</th>
<th>Stub Jacket Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leave Blank for No Stub</td>
<td></td>
</tr>
<tr>
<td>Choose 1 Option for Each Feature:</td>
<td></td>
</tr>
<tr>
<td>I = Indoor or X = I/O or O = Outdoor</td>
<td></td>
</tr>
<tr>
<td>R = OFNR or P = OFNP or L = LSZH*</td>
<td></td>
</tr>
<tr>
<td>N = Non-Armored or A = Armored**</td>
<td></td>
</tr>
</tbody>
</table>

*Leave Blank for Outdoor Cable.
**Distribution armored cable or interlocking armor cable only available in CCH format

<table>
<thead>
<tr>
<th>7</th>
<th>Stub Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leave Blank for No Stub</td>
<td></td>
</tr>
<tr>
<td>Add -PE for a Pulling Eye</td>
<td></td>
</tr>
<tr>
<td>XXXF = XXX Feet</td>
<td></td>
</tr>
<tr>
<td>XXXM = XXX Meters</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>8</th>
<th>Wallmount Bracket</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB = Wallmount Bracket Included</td>
<td></td>
</tr>
<tr>
<td>NB = No Wallmount Bracket Included</td>
<td></td>
</tr>
</tbody>
</table>

ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity®

(925) 447-7500
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www.ariatech.com
ARIA’s MPO Plug and Play Cassettes are LGX format cassettes that transition between MPO and LC or SC connectors.

These cassettes are used to interconnect MPO backbones with LC or SC patch cords.

The cassette faceplate features SC or LC adapters and the rear of the cassette features MPO adapters.

Various mounting options are available to mount the MPO Plug and Play Cassette in a rack or on a wall.

Available Formats

- 12 Fiber SC to 12 Fiber MPO
- 12 Fiber LC to 12 Fiber MPO
- 16 Fiber LC to Dual 12 Fiber MPOs
- 24 Fiber LC to Dual 12 Fiber MPOs
- 36 Fiber LC to Three 12 Fiber MPOs

Shuttered Adapters Available

Visual fault locator (VFL) compatible shuttered LC adapters prevent dust ingress without dust caps and do not contact the ferrule upon connector insertion.
MPO Plug and Play Cassettes
Cassettes and Modules

Accessories

3X MPO Plug and Play Cassette 1RU LGX Wallmount/Rackmount Bracket (P/N: 3XLGXW-RBRACKET-B-OT)

6X MPO Plug and Play Cassette 2RU Wallmount/Rackmount Bracket (P/N: 6XLGXW-RBRACKET-B-OT)

2X MPO Plug and Play Cassette Wallmount Bracket (P/N: 2XLGXWM-BRACKET-B-OT)

MPO Plug and Play Cassette Wallmount Bracket P/N: MPO-BRACKET-B

MPO Plug and Play Cassette Shroud P/N: AFP-LGX-SHROUD

MPO Plug and Play Cassette Shroud with Door P/N: AFP-LGX-SHROUD-WD

Part Number

MPC-  -  -

1 Port Count
12 = 12 Port (SC/LC)
16 = 16 Port (LC)*
24 = 24 Port (LC)
36 = 36 Port (LC)**

*40GBASE-SR4 Wiring
**2U Cassette
Note: All options use 12F MPOs

2 Adapter Type
SC = SC
LC = LC
LX = Shuttered LC

3 Fiber Type
S = SM 9/125μm G.652.D
B = SM 9/125μm Bend Insensitive G.657.A1
1 = MM 62.5/125μm OM1
2 = MM 50/125μm OM2
3 = MM 50/125μm OM3
4 = MM 50/125μm OM4

2 Polish Type
U = Singlemode UPC
A = Singlemode APC
M = Multimode PC
WDMs (CWDMs and DWDMs) combine or separate signals with different wavelengths on an optical fiber. This allows for bidirectional communication and a multiplication of capacity on a single fiber.

ARIA WDMs are manufactured using a proprietary optical bench platform which significantly improves optical performance and reduces manufacturing cost.

These modules are highly customizable and are available in the following size formats: module, half width LGX cassette, LGX cassette, 2U LGX cassette, and 1RU.

**Features**
- GR-1221-CORE Compliant
- Singlemode Bend Insensitive Fiber
- Low Insertion Loss
- Wide Passband
- High Channel Isolation
- High Stability and Reliability
- Epoxy Free on the Optical Path
- Compact Sized Modules Available

**Applications**
- Line Monitoring
- WDM Network
- Telecommunication
- Cellular Network
- Fiber Optic Amplifier
- Access Network

**Splice Tray Support for Modules**

**Example 8CH WDM Muxing and Demuxing Function**

**Pre-Terminated Configurations Available**

ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity™

(925) 447-7500
sales@ariatech.com
www.ariatech.com
WDMs (CWDMs and DWDMs)
Cassettes and Modules

Formats

Module (Ø5.5x38mm)  Module (33x44x6mm)  Module (50x50x10mm)

Module (41x89x10mm)  Module (58x80x8mm)  Module (80x100x10mm)  Module (80x120x18mm)

Half Width LGX Cassette (16x129x105mm)  LGX Cassette (28x129x100mm)  2U LGX Cassette (58x129x100mm)

1RU (44x440x200mm)
## CWDM/DWDM Specifications

<table>
<thead>
<tr>
<th>Parameters</th>
<th>1×2CH</th>
<th>4CH</th>
<th>8CH</th>
<th>12CH</th>
<th>16CH</th>
<th>18CH</th>
<th>40CH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel Wavelength (nm)</td>
<td></td>
<td>1270-1610 / ITU Grid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channel Spacing</td>
<td></td>
<td>20nm / 100 GHz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channel Passband (@-0.5dB bandwidth) (nm)</td>
<td></td>
<td>±6.5 / ±0.22</td>
<td></td>
<td>N/A / ±0.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insertion Loss (dB)</td>
<td>Pass:</td>
<td>≤1.0 / 1.8</td>
<td>≤1.5 / 3.0</td>
<td>≤2.4 / N/A</td>
<td>≤4.5 / 5.0</td>
<td>≤3.0 / 5.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reflect:</td>
<td>≤0.6 / 1.0, ≤0.4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>DWDM Channel Ripple (dB)</td>
<td>N/A</td>
<td></td>
<td></td>
<td>Adjacent:</td>
<td>Adjacent:</td>
<td></td>
<td>≤0.5</td>
</tr>
<tr>
<td>Isolation (dB)</td>
<td>Pass:</td>
<td>≥30, Reflect:</td>
<td>≥13</td>
<td>Non-Adjacent:</td>
<td>≥40</td>
<td>Expansion:</td>
<td>≥15</td>
</tr>
<tr>
<td>Insertion Loss Temp. Sensitivity (dB)</td>
<td>≤0.3</td>
<td>≤0.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Wavelength Temp. Shifting (nm/ °C)</td>
<td>≤0.002 / ≤0.001</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Polarization Dependent Loss (dB)</td>
<td>≤0.1</td>
<td>≤0.2</td>
<td>≤0.1</td>
<td>≤0.5</td>
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<td></td>
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<td>Polarization Mode Dispersion (ps)</td>
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<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>Directivity (dB)</td>
<td>≥50 / ≥45</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Return Loss (dB)</td>
<td>≥45</td>
<td>≥40</td>
<td>≥45</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Maximum Power Handing (mW)</td>
<td>300</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Operating Temperature (°C)</td>
<td>-10--70</td>
<td></td>
<td></td>
<td>-5--65</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Module Package Size (mm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>250/900μm:</td>
<td>65x46x8*</td>
<td>100x80x10</td>
<td>120x80x18</td>
<td>50x50x6*</td>
<td>120x70x10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ø5.5 x 38</td>
<td>42.6x25x6.2*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>or 2mm:</td>
<td>44x28x6.2*,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>90x20x10</td>
<td>44x25x6.2*, or</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>54x32x7.4*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Some values may change depending on the amount of additional ports, desired module size, or use of OADM

**CWDM only**
WDMs (CWDMs and DWDMs)

Accessories

3 Module 1RU LGX Wallmount/Rackmount Bracket
P/N: 3XLGXW-RBRACKET-B-OT

6 Module 2RU LGX Wallmount/Rackmount Bracket
P/N: 6XLGXW-RBRACKET-B-OT

2 Module LGX Wallmount Bracket
P/N: 2XLGXWMBRACKET-B-OT

Zero RU Cable Management Tray for 1RU Format (P/N: ZRU-CMT)

LGX Shroud with Door (P/N: AFP-LGX-SHROUD-WD)

2RU Module Mounting System (MMS) Available for WDM Modules up to 8CH

The Module Management System (MMS) Rackmount Panel provides a 2RU sized mounting interface for 36 WDM modules or splitters.
**WDMs (CWDMs and DWDMs)**

**Cassettes and Modules**

### Part Number

**WDM-**

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

1. **Component Format**
   - MOD = Module
   - SPA = Module in a Size A Splice Tray
   - SPD = Module in a Size D Splice Tray
   - MMS = Module for MMS
   - LGX = LGX Cassette
   - 2U = 2U LGX Cassette
   - HWL = Half Width LGX Cassette
   - 1RU = 1RU Rackmount

2. **Channels**
   - **XX** = XX Channels
   
   Note: Half Width LGX Cassettes Support Up to 13 Channels

3. **WDMs per Component**
   - **X** = X WDMs
   - OADM = OADM

4. **Single or Dual Fiber**
   - SF = Single Fiber (Mux or Demux)
   - DF = Dual Fiber (One Mux and One Demux)

5. **Additional Ports**
   - Leave Blank for No Additional Ports
   - Choose 1 Option for Each Feature:
     - 1310 = 1310nm
     - EXP = Expansion Port
     - MON = Monitor Port

   Note: To add connectors to one of these ports simply add the connector and polish type as a suffix here.

6. **Starting Channel**
   - **XX** = XXCH or 1XX0nm
   
   Note: For dual fiber WDM configurations with different muxing and demuxing channels, duplicate the channel sections and add DX or MX to the end to designate the different channels for muxing or demuxing.

7. **Channel Spacing**
   - 20 = 20nm spacing for CWDMs
   - 1 = 1CH spacing for DWDMs*
   - 2 = 2CH spacing for DWDMs*
   - 60 = 60nm for 1550nm & 1610nm
   - 240 = 240nm for 1310nm & 1550nm

   *100 GHz Spacing

8. **Connector Type**
   - 00 = No Connector
   - SC = SC
   - LC = LC
   - FC = FC
   - ST = ST

9. **Fiber Diameter**
   - Leave Blank for Adapters Only
   - 250 = 250μm
   - 900 = 900μm
   - 2MM = 2.0mm

10. **Fiber Length**
    - Leave Blank for Adapters Only
    - 05 = 0.5 Meter
    - 10 = 1.0 Meter
    - 20 = 2.0 Meters
    - 30 = 3.0 Meters
    - 40 = 4.0 Meters

11. **Fiber Color**
    - Leave Blank for Adapters Only
    - CC = Color Coded
    - BL = Blue
    - OR = Orange
    - GR = Green
    - BR = Brown
    - SL = Slate
    - WT = White
    - RD = Red
    - BK = Black
    - YL = Yellow
    - VL = Violet
    - RS = Rose
    - AQ = Aqua

   Note: For dual fiber WDM configurations with different fiber colors, duplicate this section and add DX or MX to the end to designate the fiber color for demuxing or muxing ports.

   *Unavailable for ST

   Note: Half Width LGX Cassettes Support SC or LC Only.
Splitters, Couplers, and Taps
Cassettes and Modules

Splitters split optical signal power with Planar Lightwave Circuit (PLC) and silica optical waveguide technology.

They are available in a variety of sizes and configurations for specific applications.

Feature include: a small package size, high reliability, wide operating wavelength range and good channel-to-channel uniformity, and are widely used in PON networks for optical signal power splitting.

ARIA splitters use ITU-T G.657.A1 Singlemode Bend Insensitive Fiber and are available for termination with all standard connector types.

Features
GR-1209-CORE and GR-1221-CORE Compliant
Low Insertion Loss and PDL
Good Channel-to-Channel Uniformity
High Reliability and Stability

Applications
FTTX Systems
PON Networks
CATV Links
Optical Signal Distribution

Splitter Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>x2</th>
<th>x4</th>
<th>x8</th>
<th>x16</th>
<th>x32</th>
<th>x64</th>
<th>x128</th>
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</thead>
<tbody>
<tr>
<td>Insertion Loss 1xN (dB)</td>
<td>3.8</td>
<td>7.2</td>
<td>10.3</td>
<td>13.5</td>
<td>16.5</td>
<td>20.5</td>
<td>23.8</td>
</tr>
<tr>
<td>Loss Uniformity 1xN (dB)</td>
<td>0.4</td>
<td>0.6</td>
<td>0.8</td>
<td>1.0</td>
<td>1.5</td>
<td>2.0</td>
<td>2.5</td>
</tr>
<tr>
<td>Insertion Loss 2xN (dB)</td>
<td>3.9</td>
<td>7.3</td>
<td>10.5</td>
<td>14.4</td>
<td>17.4</td>
<td>21.0</td>
<td>24.5</td>
</tr>
<tr>
<td>Loss Uniformity 2xN (dB)</td>
<td>0.6</td>
<td>1.0</td>
<td>1.2</td>
<td>1.5</td>
<td>1.8</td>
<td>2.2</td>
<td>2.5</td>
</tr>
<tr>
<td>PDL (dB)</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
<td>0.3</td>
<td>0.3</td>
<td>0.4</td>
<td>0.4</td>
</tr>
<tr>
<td>WDL (dB)</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Operating Wavelength</td>
<td>1260nm ~ 1650nm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Return Loss (dB)</td>
<td>50</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Directivity (dB)</td>
<td>55</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temp. Stability (°C)</td>
<td>0.5 (-40~85°C)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Temp. (°C)</td>
<td>-20 ~ +80</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Module Size with 250μm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fiber (mm)</td>
<td>40x4x4</td>
<td>40x4x4</td>
<td>40x4x4</td>
<td>50x7x4</td>
<td>50x7x4</td>
<td>60x12x4</td>
<td>N/A</td>
</tr>
<tr>
<td>Module Size with 900μm</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Fiber (mm)</td>
<td>60x7x4</td>
<td>60x7x4</td>
<td>60x7x4</td>
<td>60x12x4</td>
<td>80x20x6</td>
<td>100x40x6</td>
<td>N/A</td>
</tr>
<tr>
<td>Module Size with 2/3mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fiber (mm)</td>
<td>90x20x10</td>
<td>100x80x10</td>
<td>100x80x10</td>
<td>100x80x10</td>
<td>140x115x18</td>
<td>140x115x18</td>
<td>N/A</td>
</tr>
<tr>
<td>Cassette Size with SC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adapters (mm)</td>
<td>129x23x70</td>
<td>129x23x70</td>
<td>129x23x70</td>
<td>129x58x100</td>
<td>129x86x60</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Cassette Size with LC</td>
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<td></td>
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<tr>
<td>Adapters (mm)</td>
<td>129x23x70</td>
<td>129x23x70</td>
<td>129x23x70</td>
<td>129x58x100</td>
<td>129x86x60</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>1RU Size (in)</td>
<td>1.75x17x8</td>
<td>1.75x17x8</td>
<td>1.75x17x8</td>
<td>1.75x17x8</td>
<td>1.75x17x8</td>
<td>1.75x17x8</td>
<td>1.75x17x8</td>
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</tbody>
</table>
Cassettes and Modules

Formats

Module

Half Width LGX Cassette

Module with MMS Bracket (Used with the Module Management System)

LGX Cassette

2U LGX Cassette

3U LGX Cassette

1RU
Splitters, Couplers, and Taps
Cassettes and Modules

Example LGX Cassette Configurations

1x4 LC/UPC 1x8 LC/UPC 1x16 LC/UPC 1x2 SC/APC 1x4 SC/APC 1x8 SC/APC

1x8 SC/APC Angled Rear Input 1x64 MPO & SC/APC with 6.8mm Rear Input Cable
Example 1RU Configurations

1x16 with SC Connectors

<table>
<thead>
<tr>
<th>IN</th>
<th>ARIA</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
</tr>
</thead>
</table>

1x32 with SC Connectors

| IN | ARIA | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |

1x64 with SC Connectors

Example Half Width LGX Cassette

Tap Specifications

| 2 Port Tap Loss Values (dB) | 24, 21, 19, 17, 15, 12, 10, 8, 6, 4 |
| 4 Port Tap Loss Values (dB) | 24, 21, 19, 17, 15, 12, 10, 8 |
| 8 Port Tap Loss Values (dB) | 24, 21, 19, 17, 15, 12 |

Operating Wavelength (nm) 1260 ~ 1620
Test Wavelength (nm) 1310/1550
Return Loss (dB) ≥55
Directivity (dB) ≥55
Fiber Type Singlemode Bend Insensitive G.657.A1
Operating Temp. (°C) -40 ~ +85
Maximum Power Handling (mW) 500
Module Size (250μm or 900μm Fibers Only) (mm) 100x80x10
Half Width LGX Cassette Size (mm) 129 x 16.5 x 67.5
Cassettes and Modules

Example Modules

1x2 with 250μm Fiber and No Connectors

1x2 with 2mm Fiber and SC/UPC Connectors

1x32 with 2mm Fiber and ST/UPC Connectors

Coupler Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Wide Band</th>
<th>Dual Window</th>
<th>Triple Window</th>
<th>All Band</th>
<th>Multimode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module Size (250μm or 900μm Fiber)</td>
<td>54mm x Ø 3mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Module Size (2mm Fiber)</td>
<td>90mm x 20mm x 10mm</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Operating Temperature (°C)</td>
<td>≤0.15</td>
<td>≤0.15</td>
<td>≤0.15</td>
<td>≤0.15</td>
<td>N/A</td>
</tr>
<tr>
<td>PDL (dB)</td>
<td>≥55</td>
<td>≥55</td>
<td>≥55</td>
<td>≥55</td>
<td>≥40</td>
</tr>
<tr>
<td>Return Loss</td>
<td>≥50</td>
<td>≥50</td>
<td>≥50</td>
<td>≥50</td>
<td>≥30</td>
</tr>
<tr>
<td>Operating Wavelength (nm)</td>
<td>1310, 1550, or C+L Band</td>
<td>1310 and 1550</td>
<td>1310, 1490 and 1550</td>
<td>1260~1620</td>
<td>850 or 1310</td>
</tr>
<tr>
<td>Operating Bandwidth (nm)</td>
<td>±40</td>
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<td>±40</td>
<td>±40</td>
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<td>Typical Excess Loss (dB)</td>
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<td>≤0.07</td>
<td>≤0.07</td>
<td>≤0.07</td>
<td>≤0.40</td>
</tr>
<tr>
<td>Insertion Loss (dB)</td>
<td>50/50</td>
<td>≤3.4</td>
<td>≤3.6</td>
<td>≤3.8</td>
<td>≤3.7</td>
</tr>
<tr>
<td></td>
<td>40/60</td>
<td>≤4.4/2.6</td>
<td>≤4.7/2.7</td>
<td>≤4.7/2.7</td>
<td>≤5.1/3.1</td>
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<tr>
<td></td>
<td>33/67</td>
<td>≤5.3/2.1</td>
<td>≤5.7/2.2</td>
<td>≤5.7/2.2</td>
<td>≤6.0/2.55</td>
</tr>
<tr>
<td></td>
<td>30/70</td>
<td>≤5.7/1.9</td>
<td>≤6.0/1.9</td>
<td>≤6.0/1.9</td>
<td>≤6.4/2.3</td>
</tr>
<tr>
<td></td>
<td>20/80</td>
<td>≤7.6/1.25</td>
<td>≤7.9/1.3</td>
<td>≤7.9/1.3</td>
<td>≤8.3/1.7</td>
</tr>
<tr>
<td></td>
<td>10/90</td>
<td>≤10.65/0.65</td>
<td>≤11.2/0.75</td>
<td>≤11.2/0.75</td>
<td>≤11.4/1.15</td>
</tr>
<tr>
<td></td>
<td>5/95</td>
<td>≤13.8/0.4</td>
<td>≤14.15/0.4</td>
<td>≤14.15/0.4</td>
<td>≤14.3/0.8</td>
</tr>
<tr>
<td></td>
<td>3/97</td>
<td>≤16.15/0.3</td>
<td>≤16.45/0.3</td>
<td>≤16.45/0.3</td>
<td>≤16.7/0.75</td>
</tr>
<tr>
<td></td>
<td>2/98</td>
<td>≤18.05/0.25</td>
<td>≤18.45/0.3</td>
<td>≤18.45/0.3</td>
<td>≤18.75/0.7</td>
</tr>
<tr>
<td></td>
<td>1/99</td>
<td>≤21.15/0.2</td>
<td>≤21.6/0.25</td>
<td>≤21.6/0.25</td>
<td>≤21.95/0.65</td>
</tr>
</tbody>
</table>

Accessories

3 Module 1RU LGX Wallmount/Rackmount Bracket
P/N: 3XLGXW-RBRACKET-B-OT

2 Module LGX Wallmount Bracket
P/N: 2XLGXWMBRACKET-B-OT

6 Module 2RU LGX Wallmount/Rackmount Bracket
P/N: 6XLGXW-RBRACKET-B-OT
### Splitters, Couplers, and Taps

**Cassettes and Modules**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>SPL-</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
</tr>
</thead>
</table>
| **Format**  | MOD = Module  
MMS = Module with MMS Bracket  
LGX = LGX  
2UL = 2U LGX  
3UL = 3U LGX  
HWL = Half Width LGX  
1RU = 1RU | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| **Input Quantity or Type** | 1 = 1  
2 = 2  
T = Tap | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| **Tap Loss** | Leave Blank for No Tap  
24 = 24dB  
21 = 21dB  
19 = 19dB  
17 = 17dB  
15 = 15dB  
12 = 12dB  
10 = 10dB  
8 = 8dB  
6 = 6dB  
4 = 4dB | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| **Output Quantity** | 2 = 2  
3 = 3  
4 = 4  
8 = 8  
16 = 16  
32 = 32  
64 = 64  
128 = 128 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |

*Unbalanced with 2 balanced outputs and 1 hot output

| **Coupler Split Ratio** | Leave Blank for No Coupler  
50/50 = 50/50  
40/60 = 40/60  
33/67 = 33/67  
30/70 = 30/70  
20/80 = 20/80  
10/90 = 10/90  
5/95 = 5/95  
3/97 = 3/97  
2/98 = 2/98  
1/99 = 1/99 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| **Input Fiber Size** | Leave Blank for Adapter  
250 = 250μm  
900 = 900μm  
200 = 2.0mm  
300 = 3.0mm  
680 = 6.8mm* | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|  | *OFNR Indoor/Outdoor Cable for LGX Input Only |
| **Input Location** | Leave Blank for Module or 1RU  
R = Rear of Cassette  
A = Angled on Rear of Cassette  
F = Front of Cassette | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| **Output Fiber Size** | See Options for Input | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| **Output Connector** | See Options for Input | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| **Input Fiber Length** | See Options for Input | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| **Fiber Color** | Leave Blank for Adapter  
CC = Color Coded  
BL = Blue  
OR = Orange  
GR = Green  
BR = Brown  
SL = Slate  
WT = White  
RD = Red  
BK = Black  
YL = Yellow  
VL = Violet  
RS = Rose  
AQ = Aqua | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |

*Unbalanced with 2 balanced outputs and 1 hot output

---

**SPL-**

**Format**

| MOD = Module  
MMS = Module with MMS Bracket  
LGX = LGX  
2UL = 2U LGX  
3UL = 3U LGX  
HWL = Half Width LGX  
1RU = 1RU |

**Input Quantity or Type**

| 1 = 1  
2 = 2  
T = Tap |

**Tap Loss**

| Leave Blank for No Tap  
24 = 24dB  
21 = 21dB  
19 = 19dB  
17 = 17dB  
15 = 15dB  
12 = 12dB  
10 = 10dB  
8 = 8dB  
6 = 6dB  
4 = 4dB |

**Output Quantity**

| 2 = 2  
3 = 3  
4 = 4  
8 = 8  
16 = 16  
32 = 32  
64 = 64  
128 = 128 |

*Unbalanced with 2 balanced outputs and 1 hot output

**Coupler Split Ratio**

| Leave Blank for No Coupler  
50/50 = 50/50  
40/60 = 40/60  
33/67 = 33/67  
30/70 = 30/70  
20/80 = 20/80  
10/90 = 10/90  
5/95 = 5/95  
3/97 = 3/97  
2/98 = 2/98  
1/99 = 1/99 |

**Input Fiber Size**

| Leave Blank for Adapter  
250 = 250μm  
900 = 900μm  
200 = 2.0mm  
300 = 3.0mm  
680 = 6.8mm* |

*OFNR Indoor/Outdoor Cable for LGX Input Only

**Input Location**

| Leave Blank for Module or 1RU  
R = Rear of Cassette  
A = Angled on Rear of Cassette  
F = Front of Cassette |

**Output Fiber Size**

See Options for Input

**Output Connector**

See Options for Input

**Input Fiber Length**

See Options for Input

**Fiber Color**

| Leave Blank for Adapter  
CC = Color Coded  
BL = Blue  
OR = Orange  
GR = Green  
BR = Brown  
SL = Slate  
WT = White  
RD = Red  
BK = Black  
YL = Yellow  
VL = Violet  
RS = Rose  
AQ = Aqua |
Optical Bypass Switches provide protection and monitoring of optical cross-connects (OXCs), optical add-drop multiplexers (OADMs), and other systems during power outages or system failures.

These devices also make it easy to perform network maintenance.

They are available in 2x2 bidirectional and unidirectional configurations in a compact LGX cassette package.

A switch on the front of the cassette provides the user with the option of enabling a delay of either 0, 60 or 120 seconds before the device resumes its normal mode after a power outage. This allows other devices to fully power on before resuming network traffic.

1310nm or 1550nm wavelengths and 10/1Gbps fiber gigabit ethernet networks are supported.

**Features**
- Low Insertion and Return Loss
- Singlemode Fiber
- Non-Latching Type
- Power on Time Delay (0, 60, or 120 seconds)
- LED Indicators for Power and Optical Switch Status

**Applications**
- Ring Network
- Node Bypass Protection
- SDH ADM Ring
- WAN Optimization
- Network Maintenance

**Example Configurations**

48V Direct Power LC/UPC Unidirectional

5V USB Power LC/UPC Bidirectional
Optical Bypass Switches
Cassettes and Modules

Unidirectional Normal Mode (Power)

Unidirectional Bypass Mode (No Power)

Bidirectional Normal Mode (Power)

Bidirectional Bypass Mode (No Power)

Accessories

3 Module 1RU LGX
Wallmount/Rackmount Bracket
P/N: 3XLGXW-RBRACKET-B-OT

2 Module LGX Wallmount Bracket
P/N: 2XLGXWMBRACKET-B-OT

6 Module 2RU LGX
Wallmount/Rackmount Bracket
P/N: 6XLGXW-RBRACKET-B-OT

Ring In B Tx is connected to Equipment B Rx
Equipment B TX is connected to Ring In B Rx
Ring In A Tx is connected to Equipment A Rx
Equipment A Tx is connected to Ring In A Rx

Ring In B Tx is connected to Ring In A Rx
Ring In A Tx is connected to Ring In B Rx

WRX COM is connected to WRX CPE
ETX COM is connected to ETX CPE

WRX CPE is disconnected
ETX CPE is disconnected
WRX COM is connected to ETX COM
### Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wavelength Range (nm)</td>
<td>1260~1650</td>
</tr>
<tr>
<td>Operating Wavelength (nm)</td>
<td>1310/1550</td>
</tr>
<tr>
<td>Control Type or Drive Mode</td>
<td>Non-Latching</td>
</tr>
<tr>
<td>Delay Options After Power Restart (seconds)</td>
<td>0, 60, 120</td>
</tr>
<tr>
<td>Bidirectional Typ/Max Insertion Loss (dB)</td>
<td>0.6 / 1.0</td>
</tr>
<tr>
<td>Unidirectional Typ/Max Insertion Loss (dB)</td>
<td>1.0 / 1.5</td>
</tr>
<tr>
<td>Bidirectional Ports</td>
<td>W Rx COM, WRx CPE, E Tx COM, E Tx CPE</td>
</tr>
<tr>
<td>Unidirectional Ports</td>
<td>Ring In Rx A, Ring In Tx A, Equipment Rx A, Equipment Tx A, Ring In Rx B, Ring In Tx B, Equipment Rx B, and Equipment Tx B</td>
</tr>
<tr>
<td>Return Loss (dB)</td>
<td>≥50</td>
</tr>
<tr>
<td>Crosstalk (dB)</td>
<td>≥50</td>
</tr>
<tr>
<td>PDL (dB)</td>
<td>≤0.05</td>
</tr>
<tr>
<td>WDL (dB)</td>
<td>≤0.25</td>
</tr>
<tr>
<td>TDL (dB)</td>
<td>≤0.25</td>
</tr>
<tr>
<td>Repeatability (dB)</td>
<td>≤±0.02</td>
</tr>
<tr>
<td>DC Power supply (V)</td>
<td>5 or 48</td>
</tr>
<tr>
<td>Power Consumption (W)</td>
<td>&lt;2.5</td>
</tr>
<tr>
<td>Lifetime (cycles)</td>
<td>≥10’</td>
</tr>
<tr>
<td>Switch Time (ms)</td>
<td>≤8</td>
</tr>
<tr>
<td>Transmission Power (mW)</td>
<td>≤500</td>
</tr>
<tr>
<td>Operating Temperature (°C)</td>
<td>-40~+85</td>
</tr>
<tr>
<td>Operating / Storage Humidity (%RH)</td>
<td>5~85</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>250</td>
</tr>
<tr>
<td>Dimension (mm)</td>
<td>(H)129.0 x (W)28.0 x (D)100.0 (LGX Cassette)</td>
</tr>
</tbody>
</table>

### Part Number

```
OBS- - - -
```

1. **Power Input**
   - DIRECT = Screw Terminal Block
   - USB = USB Type B
2. **Power Input Voltage**
   - 05V = 5V
   - 48V = 48V
3. **Bidirectional**
   - B = Bidirectional
   - U = Unidirectional
4. **Adapter Type**
   - SC = SC
   - LC = LC
   - FC = FC
   - ST = ST
5. **Polish Type**
   - U = UPC
   - A = APC*

*Unavailable for ST
Splice Cassette LGX Series
Cassettes and Modules

LGX Series Splice Cassettes support patching and splicing in a compartmentalized module.

One rack unit supports up to 3 LGX Series ARIA Splice Cassettes (ASCs) with support for 24-Fibers each.

The cassette features excellent fiber management, support for single or ribbon fiber, and maintains easily accessible ports.

Supporting enclosures are available in 1RU, 2RU, or 4RU formats and feature removable latching sliding trays.

ASC LGX Series Cassette

**Specifications**

<table>
<thead>
<tr>
<th>Dimensions (Inches)</th>
<th>1.14 x 5.08 x 7.87 (HxWxD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiber Capacity</td>
<td>12 SC or 24 LC</td>
</tr>
<tr>
<td>Compatibility</td>
<td>ARIA Splice Cassette LGX Series Enclosures</td>
</tr>
<tr>
<td>Material</td>
<td>ABS Plastic</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Black with a Clear Lid</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>0.5</td>
</tr>
</tbody>
</table>

6, 12, and 24-Fiber Options Available

**Cassette Features**

- LGX support provides a familiar interface that is compatible with a wide variety of existing enclosures.
- The cassette has a spacious interior with numerous fiber management guides that provide separation between components and promote ease of use.
- Patch & Splice, MPO Plug & Play, or Pre-Term configurations available
- Tie-wrap, cable clamp, or compression fitting cable attachment options
- Optional VFL compatible connectors with translucent shutters for enhanced dust protection

**Enclosure Features**

- 1RU, 2RU or 4RU rackmount panel options.
- Panels can be mounted at multiple depths
- The spring latch sliding tray improves connector and splicing access without removing the cassettes.
Splice Cassette LGX Series
Cassettes and Modules

ASC LGX Series 1RU Enclosure

Specifications

<table>
<thead>
<tr>
<th>Rack Units</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>1.75 x 17.0 x 17.0 (HxWxD)</td>
</tr>
<tr>
<td>Cassette Capacity</td>
<td>3 ASCs</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>36 (SC) or 72 (LC)</td>
</tr>
<tr>
<td>Mounting</td>
<td>19” Frames</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Steel and Alum.</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Dark/Light Gray Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>10.5</td>
</tr>
</tbody>
</table>

ASC LGX Series 2RU Enclosure

Specifications

<table>
<thead>
<tr>
<th>Rack Units</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>3.5 x 17.0 x 17.0 (HxWxD)</td>
</tr>
<tr>
<td>Cassette Capacity</td>
<td>6 ASCs</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>72 (SC) or 144 (LC)</td>
</tr>
<tr>
<td>Mounting</td>
<td>19” Frames</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Steel and Alum.</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Dark/Light Gray Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>11.5</td>
</tr>
</tbody>
</table>

4RU RDR Enclosure

Specifications

<table>
<thead>
<tr>
<th>Rack Units</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>7.00 x 17.0 x 17.0 (HxWxD)</td>
</tr>
<tr>
<td>Cassette Capacity</td>
<td>12 ASCs</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>144 (SC) or 288 (LC)</td>
</tr>
<tr>
<td>Mounting</td>
<td>19” or 23” Frames</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Steel and Alum.</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Dark/Light Gray Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>17.5</td>
</tr>
</tbody>
</table>
Splice Cassette LGX Series
Cassettes and Modules

Latchling, Sliding, and Removable Tray System

The 1RU and 2RU feature a spring latch on the left side of the enclosure that when pulled permits the tray to slide forward. The 4RU features a spring latch at the front of the sliding tray that when lifted permits the tray to slide forward or backward.

The 1RU and 2RU feature a middle locking position that provides enhanced access to the adapters for maintenance, cleaning, and testing.

The sliding tray locks in a forward position providing access to the cassettes for splicing. The tray can also be removed and brought to a comfortable level on a table.

VFL Compatible Shuttered LCs Available

Accessories

Flush Mount Brackets for 1RU P/N: 1RU14D-FMBKIT
Strain Relief Bracket P/N: STD-SRB-KIT
Extended Strain Relief Bracket P/N: EX-SRB-KIT
Micro Compression Fitting P/N: CF-XXS
Two-Piece Cable Clamp for 3.8mm Cable (P/N: ASC-CLAMP)
12AT2 Cable Clamp for 0.4” to 1.0” Diameter Cable P/N: 12AT2
12A3 Cable Clamp for 0.25”-1.50” Diameter Cable P/N: 12A3L-H

12AT2 Cable Clamp for 0.4” to 1.0” Diameter Cable

12A3 Cable Clamp for 0.25”-1.50” Diameter Cable

12AT2 Cable Clamp for 0.4” to 1.0” Diameter Cable

12A3 Cable Clamp for 0.25”-1.50” Diameter Cable

3 Module 1RU LGX Wallmount/Rackmount Bracket P/N: 3XLGXW-RBRACKET-B-OT
2 Module LGX Wallmount Bracket P/N: 2XLGXWMBRACKET-B-OT
6 Module 2RU LGX Wallmount/Rackmount Bracket P/N: 6XLGXW-RBRACKET-B-OT
### Splice Cassette LGX Series

#### Cassettes and Modules

<table>
<thead>
<tr>
<th>Part Number</th>
<th>ASC-LGX-</th>
</tr>
</thead>
</table>

#### Format

| 1 RU | 1RU = 1RU |
| 2RU | 2RU = 2RU |
| CAS | CAS = Cassette |

#### Adapter Plate Type

| 2 | Leave Blank for Panel |
| 06 | 6 Port (SC) |
| 12 | 12 Port (SC/LC) |
| 24 | 24 Port (LC) |

#### Adapter Type

| 3 | Leave Blank for Panel |
| SC | SC |
| LC | LC |
| XC | XC = LC Shuttered |

#### Polish Type

| 3 | Leave Blank for Panel |
| U | U = Singlemode UPC |
| A | A = Singlemode APC |
| M | M = Multimode PC |

#### Pigtail

| 4 | Leave Blank for Panel, Pre-Term, or Plug & Play |
| 9 | 9 = 900 μm |
| R | R = Ribbon |

Note: 28” pigtail length without mesh is standard

#### Pigtail Wiring

| 5 | Leave Blank for Panel, Pre-Term, or Plug & Play |
| H | H = Wired for Horizontal Cassette Orientation |
| V | V = Wired for Vertical Cassette Orientation |

#### Fiber Type

| 6 | Leave Blank for Panel, Pre-Term, or Plug & Play |
| S | S = SM 9/125μm G.652.D |
| B | B = SM 9/125μm Bend Insensitive G.657.A1 |
| L | L = SM 9/125μm Bend Insensitive G.657.A2 |
| 1 | 1 = MM 62.5/125μm OM1 |
| 2 | 2 = MM 50/125μm OM2 |
| 3 | 3 = MM 50/125μm OM3 |
| 4 | 4 = MM 50/125μm OM4 |

#### Pre-Term or Plug & Play

| 7 | Leave Blank for Panel, No Pre-Term, or No Plug & Play |
| 30R | 30R = 3.0mm OFNR Micro Cable |
| 30P | 30P = 3.0mm OFNP Micro Cable |
| 36R | 36R = 3.6mm OFNR Micro Cable |
| 36P | 36P = 3.6mm OFNP Micro Cable |
| 12M | 12M = 12 Fiber MPO Adapter(s) |
| 24M | 24M = 24 Fiber MPO Adapter |

#### Pre-Term Breakout Length

| 9 | Leave Blank for No Pre-Term |
| XXXF | XXXF = XXX Feet |
| XXXM | XXXM = XXX Meters |

#### Pre-Term Connector Type

| 10 | Leave Blank for No Pre-Term |
| SC | SC |
| LC | LC |
| FC | FC |
| ST | ST |
| E2 | E2 = E2000 |
| MP | MP = MPO |
| 00 | 00 = No Connector |

#### Pre-Term Polish Type

| 10 | Leave Blank for No Pre-Term |
| U | U = Singlemode UPC |
| A | A = Singlemode APC* |
| M | M = Multimode PC |
| F | F = Multimode Flat** |
| 0 | 0 = No Connector |

*Select for Singlemode MPOs and Unavailable for ST |
**Select for Multimode MPOs

#### Pre-Term MPO Type

| 11 | Leave Blank for Non-MPO Connector or no Pre-Term |
| Choose 1 option for each feature: |
| 1 = 12 or 2 = 24 Fiber Connector |
| S = Standard or E = Elite Ferrule |
| F = Female or M = Male Guide Pins |

---

**ARIA TECHNOLOGIES, INC.**

Fiber Optic Connectivity™

(925) 447-7500

sales@ariatech.com

www.ariatech.com
Splice Cassette Compact LGX Series
Cassettes and Modules

Compact LGX Series Splice Cassettes support patching and splicing in a small compartmentalized module.

The short depth housing supports enclosures with limited space and can be mounted directly to a wall.

The cassettes feature universal single fusion and mass fusion splice chips.

Removable adapter plate provides easy access connectors for cleaning and improved access to pigtails when splicing.

Toolless and easy to remove clear lid

Support for optional protective patch cord shroud, cable grommets, compression fitting, rear MPO adapters, DIN rail mounting clip, and neodymium mounting magnets.

**Features**
- Wide range of enclosure compatibility
- Removable mounting ears allow for front and rear panel installation
- Holes inside the cassette support wallmounting without interfering with fiber management or requiring additional accessories
- Modular splice chips can be oriented for single fusion or mass fusion splicing

**Overview**
- Slots for zip ties
- Cable entry grommet
- Hybrid single fusion & mass fusion splice chips
- Wall mounting holes
- Cover plate
- Support for MPO adapter
- Removable LGX mounting ears
- DIN rail clip mounting holes
- Fiber management guides
- Removable adapter plate

**Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>1.14” x 5.08” x 6.00” (HxWxD)</td>
</tr>
<tr>
<td>Fiber Capacity</td>
<td>12 SC or 24 LC</td>
</tr>
<tr>
<td>Compatibility</td>
<td>Most ARIA LGX Enclosures</td>
</tr>
<tr>
<td>Material</td>
<td>ABS Plastic</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Black with a Clear Lid</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>0.5</td>
</tr>
</tbody>
</table>

ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity™

(925) 447-7500
sales@ariatech.com
www.ariatech.com
Splice Cassette Compact LGX Series
Cassettes and Modules

SC Configuration Available

Shuttered LC Adapters Available

Visual fault locator (VFL) compatible shuttered LC adapters prevent dust ingress without dust caps and do not contact the ferrule upon connector insertion

Accessories

Patchcord Shroud with Door
P/N: AFP-LGX-SHROUD-WD

DIN Rail Clip and Hardware for Mounting to a DIN Rail (see part number on the next page)

Neodymium Magnets and Hardware For Mounting to a Steel Enclosure (see part number on the next page)

Bare Ribbon Cable Entry Grommet (see part number on the next page)

Buffer Tube or 3mm Subunit Cable Entry Grommet (see part number on the next page)
### Splice Cassette Compact LGX Series

**Cassettes and Modules**

**Part Number**

<table>
<thead>
<tr>
<th>ASC-CLGX-</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mounting</strong></td>
<td>Leave Blank for LGX mounting</td>
<td>WM = Wallmounting Hardware Included</td>
<td>DN = DIN Rail Mounting Clip Included</td>
<td>MG = Neodymium Magnets Included</td>
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<tr>
<td><strong>Adapter Plate Type</strong></td>
<td>06 = 6 Port (SC)</td>
<td>12 = 12 Port (SC/LC)</td>
<td>24 = 24 Port (LC)</td>
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<tr>
<td><strong>Adapter Type</strong></td>
<td>SC = SC</td>
<td>LC = LC</td>
<td>XC = LC Shuttered</td>
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</tr>
<tr>
<td><strong>Polish Type</strong></td>
<td>U = Singlemode UPC</td>
<td>A = Singlemode APC</td>
<td>M = Multimode PC</td>
<td></td>
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</tr>
<tr>
<td><strong>Pigtail</strong></td>
<td>Leave Blank for Pre-Term, or Plug &amp; Play</td>
<td>9 = 900 μm</td>
<td>R = Ribbon</td>
<td></td>
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</tr>
<tr>
<td><strong>Pigtail Wiring</strong></td>
<td>Leave Blank for Pre-Term, or Plug &amp; Play</td>
<td>H = Wired for Horizontal Cassette Orientation</td>
<td>V = Wired for Vertical Cassette Orientation</td>
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<tr>
<td><strong>Fiber Type</strong></td>
<td>Leave Blank for Pre-Term, or Plug &amp; Play</td>
<td>S = SM 9/125μm G.652.D</td>
<td>B = SM 9/125μm Bend Insensitive G.657.A1</td>
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<tr>
<td></td>
<td></td>
<td>L = SM 9/125μm Bend Insensitive G.657.A2</td>
<td>1 = MM 62.5/125μm OM1</td>
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<td></td>
<td></td>
<td>2 = MM 50/125μm OM2</td>
<td>3 = MM 50/125μm OM3</td>
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<td>4 = MM 50/125μm OM4</td>
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<tr>
<td><strong>Pre-Term or Plug &amp; Play</strong></td>
<td>Leave Blank for No Pre-Term, or No Plug &amp; Play</td>
<td>30R = 3mm OFNR Micro Cable</td>
<td>30P = 3mm OFNP Micro Cable</td>
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<tr>
<td></td>
<td></td>
<td>12M = 12 Fiber MPO Adapter(s)</td>
<td>24M = 24 Fiber MPO Adapter</td>
<td></td>
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</tr>
<tr>
<td><strong>Pre-Term Breakout Length</strong></td>
<td>Leave Blank for No Pre-Term</td>
<td>XXXF = XXX Feet</td>
<td>XXXM = XXX Meters</td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Pre-Term Connector Type</strong></td>
<td>Leave Blank for No Pre-Term</td>
<td>SC = SC</td>
<td>LC = LC</td>
<td>FC = FC</td>
<td>ST = ST</td>
<td>E2 = E2000</td>
<td>MP = MPO</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>00 = No Connector</td>
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</tr>
<tr>
<td><strong>Pre-Term Polish Type</strong></td>
<td>Leave Blank for No Pre-Term</td>
<td>U = Singlemode UPC</td>
<td>A = Singlemode APC*</td>
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<td></td>
<td></td>
<td>M = Multimode PC</td>
<td>F = Multimode Flat**</td>
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<td>0 = No Connector</td>
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</tr>
<tr>
<td></td>
<td>*Select for Singlemode MPOs and Unavailable for ST</td>
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<tr>
<td></td>
<td>**Select for Multimode MPOs</td>
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<tr>
<td><strong>Pre-Term MPO Type</strong></td>
<td>Leave Blank for Non-MPO Connector or no Pre-Term</td>
<td>Choose 1 option for each feature:</td>
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<td></td>
<td></td>
<td>1 = 12 or 2 = 24 Fiber Connector</td>
<td>S = Standard or E = Elite Ferrule</td>
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<td></td>
<td></td>
<td>F = Female or M = Male Guide Pins</td>
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</tbody>
</table>

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Note: 28” pigtail length without mesh is standard.
Adapters, Plates, and Pigtails
Adapters, Plates, Pigtails, Attenuators, and Reflectors

ARIA Adapter Plates are available in 6, 8, 12, and 24-port designs equipped with adapters only or with adapters and pigtails.

Our singlemode adapter sleeves are made of ceramic and multimode adapter sleeves are made of phosphor bronze for frequent connector mating and demating endurance.

Adapter plates are available in the LGX, CCH, and SMP type footprints. CCH footprint adapter plates accommodate the CCH, PCH, CCS, WCH, ICH, EDC, and FZB housing families.

The pigtails fanouts are 100% tested for insertion loss, return loss, and endface clarity. They are available in 900 μm in mesh, distribution style (MIC), or ribbon in mesh configurations with singlemode or multimode fiber.

Pigtail Fanout Examples

ARIA Adapter Plates are available in 6, 8, 12, and 24-port designs equipped with adapters only or with adapters and pigtail fanouts.

ARIA Technologies, Inc.  
Fiber Optic Connectivity™
LGX Adapter Plate Examples

6-Fiber SM SC/UPC  6-Fiber SM SC/APC  6-Fiber SC MM OM1/OM2  6-Fiber SC OM3/OM4

8-Fiber SM SC/UPC  8-Fiber SM SC/APC  8-Fiber SC MM OM1/OM2  8-Fiber SC MM OM3/OM4

12-Fiber SM SC/UPC  12-Fiber SM SC/APC  12-Fiber SC MM OM1/OM2  12-Fiber SC MM OM3/OM4

12-Fiber SM LC/UPC  12-Fiber SM LC/APC  12-Fiber LC MM OM1/OM2  12-Fiber LC MM OM3/OM4

24-Fiber SM LC/UPC  24-Fiber SM LC/APC  24-Fiber LC MM OM1/OM2  24-Fiber LC OM3/OM4

6-Fiber ST  6-Fiber FC  8-Fiber ST  8-Fiber FC

12-Fiber ST  12-Fiber FC  6 Port MPO
Adapters, Plates, and Pigtails
Adapters, Plates, Pigtails, Attenuators, and Reflectors

Pigtail Testing Procedure

PASS

All pigtails fanouts pass the rigorous standards of ARIA Technologies, Inc.

Each pigtail connector is polished, cleaned, and tested for insertion loss, return loss, and endface clarity to ensure optimal signal transfer in accordance with Telcordia GR-326 Issue 4 requirements.

Part Number

<table>
<thead>
<tr>
<th>Component</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
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<tbody>
<tr>
<td>AOK = Adapter Plate and</td>
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<tr>
<td>Pigtail Add-On Kit</td>
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<tr>
<td>PT = Pigtail with No</td>
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<td>AP = Adapter Plate</td>
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</tbody>
</table>

| Adapter Plate Format       |    |    |    |    |    |    |    |    |    |
| Leave Blank for No         |    |    |    |    |    |    |    |    |    |
| Adapter Plate              |    |    |    |    |    |    |    |    |    |
| LGX = LGX Type              |    |    |    |    |    |    |    |    |    |
| SMP = PLP/SMP Type          |    |    |    |    |    |    |    |    |    |
| CCH = CCH Type              |    |    |    |    |    |    |    |    |    |

| Adapter Plate Type or      |    |    |    |    |    |    |    |    |    |
| Number of Connectors       |    |    |    |    |    |    |    |    |    |
| 06 = 6 Port (SC/FC/ST/MPO) |    |    |    |    |    |    |    |    |    |
| 08 = 8 Port (SC/FC/ST/MPO) |    |    |    |    |    |    |    |    |    |
| 12 = 12 Port (SC/LC/FC/ST) |    |    |    |    |    |    |    |    |    |
| 24 = 24 Port (LC)*         |    |    |    |    |    |    |    |    |    |

Note: 8 port CCH type adapter plates are not available. 12 Port PLP/SMP type adapter plates are not available with FC or ST adapters.

*Not available as a pigtail only

| Adapter or Connector Type  |    |    |    |    |    |    |    |    |    |
| SC = SC                    |    |    |    |    |    |    |    |    |    |
| LC = LC                    |    |    |    |    |    |    |    |    |    |
| FC = FC                    |    |    |    |    |    |    |    |    |    |
| ST = ST                    |    |    |    |    |    |    |    |    |    |
| MP = MPO                   |    |    |    |    |    |    |    |    |    |

| Polish Type                |    |    |    |    |    |    |    |    |    |
| U = Singlemode UPC         |    |    |    |    |    |    |    |    |    |
| A = Singlemode APC*        |    |    |    |    |    |    |    |    |    |
| M = Multimode PC           |    |    |    |    |    |    |    |    |    |

*Unavailable for ST

| Fiber Type                 |    |    |    |    |    |    |    |    |    |
| S = SM 9/125μm G.652.D     |    |    |    |    |    |    |    |    |    |
| B = SM 9/125μm Bend        |    |    |    |    |    |    |    |    |    |
| Insensitive G.657.A1       |    |    |    |    |    |    |    |    |    |
| 1 = MM 62.5/125μm OM1      |    |    |    |    |    |    |    |    |    |
| 2 = MM 50/125μm OM2        |    |    |    |    |    |    |    |    |    |
| 3 = MM 50/125μm OM3        |    |    |    |    |    |    |    |    |    |
| 4 = MM 50/125μm OM4        |    |    |    |    |    |    |    |    |    |

| Plate Color                |    |    |    |    |    |    |    |    |    |
| Leave Blank for            |    |    |    |    |    |    |    |    |    |
| No Adapter Plate           |    |    |    |    |    |    |    |    |    |
| B = Black                  |    |    |    |    |    |    |    |    |    |
| W = White                  |    |    |    |    |    |    |    |    |    |

| Pigtail                    |    |    |    |    |    |    |    |    |    |
| Leave Blank for No         |    |    |    |    |    |    |    |    |    |
| Pigtail                    |    |    |    |    |    |    |    |    |    |
| M = 900 μm in Mesh          |    |    |    |    |    |    |    |    |    |
| D = Distribution Style (MIC)|    |    |    |    |    |    |    |    |    |
| R = Ribbon in Mesh          |    |    |    |    |    |    |    |    |    |
| B = Bare Ribbon             |    |    |    |    |    |    |    |    |    |

Note: 18” Breakout Standard

| Pigtail Length             |    |    |    |    |    |    |    |    |    |
| Leave Blank for No         |    |    |    |    |    |    |    |    |    |
| Pigtail Length             |    |    |    |    |    |    |    |    |    |
| 3M = 3 Meters (Standard)   |    |    |    |    |    |    |    |    |    |
| XM = X Meters              |    |    |    |    |    |    |    |    |    |

| Pigtail Wiring             |    |    |    |    |    |    |    |    |    |
| Leave Blank for Pigtail    |    |    |    |    |    |    |    |    |    |
| Only or Adapter Plate Only |    |    |    |    |    |    |    |    |    |
| H = Wired for Horizontal   |    |    |    |    |    |    |    |    |    |
| Plate Orientation          |    |    |    |    |    |    |    |    |    |
| V = Wired for Vertical     |    |    |    |    |    |    |    |    |    |
| Plate Orientation          |    |    |    |    |    |    |    |    |    |
Between Series Adapters
Adapters, Plates, Pigtails, Attenuators, and Reflectors

ARIA Between Series Adapters are used to quickly change a UPC connector into an APC connector or an LC connector into an SC connector.

These adapters enable the use of current patchcord stock where a transition to another polish type or connector type is needed to complete the circuit.

Adapter or 6” long 2/3mm singlemode bend insensitive G.657.A1 cable types available.

Easy to install on any patchcord or pigtail
Short size ensures proper cable bend radius in patch panels

Specifications

<table>
<thead>
<tr>
<th>Insertion Loss</th>
<th>≤0.2dB</th>
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<tbody>
<tr>
<td>Return Loss UPC</td>
<td>≥45dB</td>
</tr>
<tr>
<td>Return Loss APC</td>
<td>≥60dB</td>
</tr>
<tr>
<td>Ferrule/Sleeve Material</td>
<td>Ceramic</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-20 to 75°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40 to 85°C</td>
</tr>
</tbody>
</table>

Part Number

BSA- - - -

1 Female Connector Type
SCU = SC/UPC
SCA = SC/APC
LCU = LC/UPC
LCA = LC/APC

2 Male Connector Type
SCU = SC/UPC
SCA = SC/APC
LCU = LC/UPC
LCA = LC/APC

3 Style
A = Adapter
C = Cable
Attenuators
Adapters, Plates, Pigtails, Attenuators, and Reflectors

Attenuators are typically build out style male to female adapters that reduce the power level of optical signals by a fixed amount.

The closer receiving equipment is to the source of a transmit signal within the network, the “hotter” the signal will be.

Attenuators reduce the power level of a transmit signal to a safe level for use with receiving equipment.

They are also used for the testing of linearity and dynamic range in photosensors.

Small attenuation variation ensures accurate output.

**Features**
- Precise attenuation values
- Environmentally stable and reliable
- Telcordia GR-910-CORE compliant
- Excellent return loss
- Bidirectional
- No air gap

**Applications**
- Telecommunications
- CATV
- Passive Optical Networks (PONs)
- Fiber to the Home
- Local Area Network
- Network Testing
- Long Haul Networks

**Specifications**

<table>
<thead>
<tr>
<th>Attenuation Range</th>
<th>1-30 dB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attenuation Variance</td>
<td>&gt;10%</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40 to 75 °C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-50 to 85 °C</td>
</tr>
<tr>
<td>Return Loss UPC</td>
<td>&gt;55dB</td>
</tr>
<tr>
<td>Return Loss APC</td>
<td>&gt;65dB</td>
</tr>
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</table>

**In-Line Variable Attenuators Available**

**In-Line Fixed Attenuators Available**

**Part Number**

ATN- - -

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>Polish Type</th>
<th>dB Value</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC = SC</td>
<td>U = UPC</td>
<td>XX = XX dB</td>
<td>Leave blank for build out style fixed attenuator</td>
</tr>
<tr>
<td>LC = LC</td>
<td>A = APC</td>
<td>VA = Variable</td>
<td></td>
</tr>
<tr>
<td>FC = FC</td>
<td></td>
<td></td>
<td>XXF = XX Feet</td>
</tr>
<tr>
<td>ST = ST</td>
<td></td>
<td></td>
<td>XXM = XX Meters</td>
</tr>
</tbody>
</table>

*Unavailable for ST
*Unavailable for ST

ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity®

(925) 447-7500
sales@ariatech.com
www.ariatech.com
FBG Reflectors
Adapters, Plates, Pigtails, Attenuators, and Reflectors

Fiber Bragg Grating (FBG) Reflectors are installed at an ONU to reflect 1625-1650nm signals from an OTDR for line testing purposes from the OLT, while the working bands of the PON are transmitted normally.

When the reflected signal has low loss, the circuit is functioning properly, when the loss is significant, the circuit has an issue, and when no signal is returned, the optical circuit is broken.

They are available with SC or LC connector types in a female to male adapter configuration, a 1 meter pigtail configuration, or a 0.5 meter fiber only configuration. The reflect band is monodirectional.

The adapter configuration works similar to an attenuator and can be added to any existing connector.

The pigtail configuration has the FBG inside the ferrule and can be made into an assembly or spliced.

### Features
- Compliant with Telcordia GR-326-CORE, GR-1221-CORE, and RoHS
- High stability and reliability
- Low insertion loss

### Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Adapter</th>
<th>Pigtail or Fiber Only</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pass Band Wavelength Range (nm)</td>
<td>1260-1360 &amp; 1460-1581</td>
<td>1260-1600</td>
</tr>
<tr>
<td>Reflect Band Wavelength Range (nm)</td>
<td>1610-1660</td>
<td>1625-1650</td>
</tr>
<tr>
<td>Pass Band IL (dB)</td>
<td>≤1.2</td>
<td>≤1.4 (1260-1360nm), ≤1.4 (1460-1580nm), ≤2.0 (1580-1600nm), &gt;21 (1620-1630nm)</td>
</tr>
<tr>
<td>Reflect Band IL (dB)</td>
<td>≥17</td>
<td>≥21 (1620-1630nm)</td>
</tr>
<tr>
<td>Pass Band RL (dB)</td>
<td>≥18 (1260-1360nm), ≥17 (1460-1581nm)</td>
<td>&gt;35 (1260-1360nm), &gt;35 (1460-1580nm), &gt;25 (1580-1600nm)</td>
</tr>
<tr>
<td>Reflect Band RL (dB)</td>
<td>≤1.0</td>
<td>≤0.4</td>
</tr>
<tr>
<td>PDL (dB)</td>
<td>≤0.3</td>
<td>≤0.4</td>
</tr>
<tr>
<td>TDL (dB)</td>
<td>≤0.5</td>
<td>≤0.5</td>
</tr>
<tr>
<td>Ripple (dB)</td>
<td>≤0.5</td>
<td>≤0.6</td>
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<tr>
<td>Optical Power Handling (dBm)</td>
<td>≤27</td>
<td>≤27</td>
</tr>
<tr>
<td>Fiber Type</td>
<td>Singlemode G.657.A1</td>
<td></td>
</tr>
<tr>
<td>Working / Storage Temperature (°C)</td>
<td>-25~+75 / -40~+85</td>
<td>-20~+70 / -40~+85</td>
</tr>
</tbody>
</table>

### Part Number

FBG-

1. FBG Type
   - AD = Adapter
   - PT = Pigtail
   - FB = Fiber Only

2. Connector Type
   - Leave Blank for Fiber Only
   - SC = SC
   - LC = LC

2. Polish Type
   - Leave Blank for Fiber Only
   - U = UPC
   - A = APC

(925) 447-7500
sales@ariatech.com
www.ariatech.com
Splice Trays
Accessing, Cleaning, Splicing, and Testing Equipment

12 Fiber Single Fiber Fusion Splice Tray (4”x6”)
P/N: 4612CWMP

12 Fiber Single Fiber Fusion Splice Tray (3”x5”)
P/N: 3512CWMPST

24 Fiber Single Fiber Fusion Splice Tray (4”x7”)
P/N: 4724CWMPST

6 Position Ribbon Fiber Mass Fusion Splice Tray (4”x7”)
P/N: 4772CWMPST

24 Fiber Single Fiber Fusion Splice Tray (4”x8”)
P/N: 4824CWMP

6 Position Ribbon Fiber Mass Fusion Splice Tray (4”x8”)
P/N: 4872RCWM

ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity™

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www.ariatech.com
Splice Trays
Accessing, Cleaning, Splicing, and Testing Equipment

48 Fiber Single Fiber Fusion Splice Tray
P/N: AT1B-F/F

18 Position Ribbon Fiber Mass Fusion Splice Tray
P/N: AT1B-MF/MF

24 Fiber Single Fiber Fusion or 4 Position Ribbon Fiber Mass Fusion Splice Tray (4"x7") (P/N: 4x7-ST-ACCG)

8 Position Ribbon Fiber Mass Fusion Splice Tray (4"x7")
P/N: 4x7-ST-ACCG-MF

24 Fiber Single Fiber Fusion or 4 Position Ribbon Fiber Mass Fusion Splice Tray (4"x9") (P/N: 4812C4RMTB)

48 Fiber Single Fiber Fusion or 8 Position Ribbon Fiber Mass Fusion Splice Tray (5"x12") (P/N: 5712CWMP48ST-BC)

24 Fiber Single Fiber Fusion or 20 Position Ribbon Fiber Mass Fusion Splice Tray (5"x12") (P/N: 5712CWMP48ST)

48 Fiber Single Fiber Fusion Splice Tray (5"x12")
P/N: 5712CWMP48STX

ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity

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www.ariatech.com
ARIA Splice Protection Sleeves provide mechanical and environmental protection for fusion splices of fiber.

ARIA Splice Sleeves are compatible with most of the industry standard fiber management systems and organizers.

ARIA Splice Sleeves are available for single fusion splicing of single fibers and mass fusion splicing of multiple fibers.

Mass fusion splice sleeves protect ribbons with two to twelve fibers.

Features
• Protect single or mass fusion splices
• Fits into most splice holders
• Quick shrink-down time
• Low temperature hot-melt adhesive encapsulates the splice
• Ceramic rod ensures proper alignment and rigidity

Part Number

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>40mm single fusion splice sleeve</td>
<td>AT-3A-X40</td>
</tr>
<tr>
<td>60mm single fusion splice sleeve</td>
<td>AT-3A-X60</td>
</tr>
<tr>
<td>45mm ribbon mass fusion splice sleeve</td>
<td>AT-SPLSV-RIB-45MM</td>
</tr>
</tbody>
</table>
Launch Boxes
Accessing, Cleaning, Splicing, and Testing Equipment

Launch boxes aid in the testing of fiber optic cable when using an Optical Time Domain Reflectometer (OTDR).

Launch boxes are used with OTDRs to help minimize the effects of the OTDR’s launch pulse on measurement uncertainty.

They are used for Installation/Testing, Training, and Calibration.

They can also be called a Pulse Suppressor or Delay Line.

All ARIA Launch Boxes are terminated with low loss connectors for exceptional accuracy and performance.

Launch boxes are available with up to 2 km of fiber and different connector configurations.

Features
• The lockable compound latch provides a positive seal and easy opening capability
• Nonmetal constructed lightweight case will not dent, corrode, or conduct electricity
• Water and dust proofing allows the unit to be taken into almost any environment
• Auto purge valve allows for changes in altitude and temperature

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (HxWxD&quot;)</td>
<td>9.4 x 5.6 x 2.6</td>
</tr>
<tr>
<td>Capacity (km)</td>
<td>1.0</td>
</tr>
<tr>
<td>Material</td>
<td>SR Polypropylene</td>
</tr>
<tr>
<td>Color</td>
<td>Yellow/Black</td>
</tr>
<tr>
<td>Weight (Empty) (lb)</td>
<td>1.7</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40° to +55 °C</td>
</tr>
<tr>
<td>Typical Loss for 1km (dB)</td>
<td>&lt; 1 @ 1310nm</td>
</tr>
<tr>
<td>Fiber Type</td>
<td>Singlemode Corning</td>
</tr>
<tr>
<td></td>
<td>9/125 - SMF-28e+</td>
</tr>
</tbody>
</table>

Part Number

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LB-1-2-3</td>
<td>Length</td>
</tr>
<tr>
<td></td>
<td>150M = 150M</td>
</tr>
<tr>
<td></td>
<td>500M = 500M</td>
</tr>
<tr>
<td></td>
<td>1KM = 1KM</td>
</tr>
<tr>
<td></td>
<td>2KM = 2KM</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Length</th>
<th>Input Connector Type</th>
<th>Output Connector Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>150M = 150M</td>
<td>SC = SC</td>
<td>SC = SC</td>
</tr>
<tr>
<td>500M = 500M</td>
<td>LC = LC</td>
<td>LC = LC</td>
</tr>
<tr>
<td>1KM = 1KM</td>
<td>FC = FC</td>
<td>FC = FC</td>
</tr>
<tr>
<td>2KM = 2KM</td>
<td>ST = ST</td>
<td>ST = ST</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Length</th>
<th>Input Polish Type</th>
<th>Output Polish Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>150M = 150M</td>
<td>U = UPC</td>
<td>U = UPC</td>
</tr>
<tr>
<td>500M = 500M</td>
<td>A = APC</td>
<td>A = APC</td>
</tr>
<tr>
<td>1KM = 1KM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2KM = 2KM</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Unavailable for ST
ARIA Fiber Test Boxes (Network Simulators) allow for the simulation of optical networks and can be configured with different chassis sizes, fiber types, fiber lengths, and connector types.

These systems allow the user to measure true loss through fiber, connectors, and splices. They also allow the user to measure signal delay which is not possible with attenuators. By connecting different reel lengths with patch cords or splices, the user can create many different channel lengths to test their network products.

Available in 1RU or 3RU formats depending on desired capacity. Each reel inside the chassis supports multiple fibers that connect to a replaceable jumper. This jumper is mated to the ports on the front of the panel.

Multiple 3RU chassis can be attached together at the factory for increased capacity.

### Specifications

<table>
<thead>
<tr>
<th>1RU</th>
<th>3RU</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rack Units</strong></td>
<td>1</td>
</tr>
<tr>
<td><strong>Dimensions (Inches)</strong></td>
<td>1.75 x 17.0 x 19.0 (HxWxD)</td>
</tr>
<tr>
<td><strong>Fiber Capacity</strong></td>
<td>20km</td>
</tr>
<tr>
<td><strong>Large Reel Capacity</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Small Reel Capacity</strong></td>
<td>(4) 2.9km Single Fiber Reels or</td>
</tr>
<tr>
<td></td>
<td>(4) 180m Ribbon Fiber Reels</td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
<td>19” or 23” Frames</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>1.5mm Thick Aluminum</td>
</tr>
<tr>
<td><strong>Material Finish</strong></td>
<td>Black Powder Coat</td>
</tr>
<tr>
<td><strong>Weight (Empty) (lbs)</strong></td>
<td>4.0</td>
</tr>
<tr>
<td><strong>Rack Units</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Dimensions (Inches)</strong></td>
<td>5.25 x 17.0 x 16.0 (HxWxD)</td>
</tr>
<tr>
<td><strong>Fiber Capacity</strong></td>
<td>50km</td>
</tr>
<tr>
<td><strong>Large Reel Capacity</strong></td>
<td>(2) 25km Single Fiber Reels or</td>
</tr>
<tr>
<td></td>
<td>(2) 2.2km Ribbon Reels</td>
</tr>
<tr>
<td><strong>Small Reel Capacity</strong></td>
<td>(8) 2.9km Single Fiber Reels or</td>
</tr>
<tr>
<td></td>
<td>(8) 180m Ribbon Fiber Reels</td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
<td>19” or 23” Frames</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>2.0mm Thick Aluminum</td>
</tr>
<tr>
<td><strong>Material Finish</strong></td>
<td>Black Powder Coat</td>
</tr>
<tr>
<td><strong>Weight (Empty) (lbs)</strong></td>
<td>6.5</td>
</tr>
</tbody>
</table>
Fiber Test Boxes (Network Simulators)
Accessing, Cleaning, Splicing, and Testing Equipment

Connector Saver Jumper Feature
All ARIA network simulation systems come standard with the connector saver jumper feature.

This feature allows the wear and tear of multiple connector matings to occur on a jumper and not on the connectorized end of each length of fiber for testing.

If a connector endface is damaged, simply replace the damaged jumper. The test system can continue operating without retermination.

Modular 3RU Design

Part Number

FTB- - - - - - -

1 Chassis
1RU = 1RU
3RU = 3RU

2 Fiber Quantity
X = Quantity of Fibers

3 Fiber Type
B = SM 9/125μm Bend Insensitive G.657.A1
1 = MM 62.5/125μm OM1
2 = MM 50/125μm OM2
3 = MM 50/125μm OM3
4 = MM 50/125μm OM4
5 = MM 50/125μm OM5

4 Connector Type
SC = SC
LC = LC
MP = MPO*

*12F Connector and Ribbon Fiber Only

5 MPO Type
Leave Blank for Non-MPO Connector
Choose 1 Option for Each Feature:
S = Standard or E = Elite Ferrule
F = Female or M = Male Guide Pins
A = A, B = B, or C = C Wiring Method

6 Length
XFT = X Feet
XM = X Meters
XKM = X Kilometers

7 Additional Fibers
If additional fibers are needed, use the previous options to configure them here

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www.ariatech.com
Dust and contaminant free connectors and adapters are critical to error free operation.

Due to the sensitivity of fiber optic systems, contamination can occur at many stages of its transportation and implementation.

Proper inspection, cleaning, and installation of fiber optic connectors and adapters is of paramount importance to installing and maintaining an operational fiber optic network.

Particles of dust, oil from skin, and other contaminants trapped in the connection between two pieces of fiber can cause attenuation due to back reflections, air gaps, and misalignment. It can also damage the glass surface of the connector.

Network Issue Survey

In a study conducted by NTT-Advanced Technology, 80% of network owners (blue) and 98% of installers (gray) reported that issues with connector cleanliness and contamination were the greatest cause of network failure.
**Connector Cleaning Products**

**Accessing, Cleaning, Splicing, and Testing Equipment**

**Cassette Cleaners**

Cassette cleaners provide a large section of cleaning material for ferrule endfaces to be wiped clean on.

They clean unmated cable connectors.

All single fiber and female MPO connectors are supported by the ARIA Clebox and male MPO connectors are supported by the Cletop.

Performs over 500 cleanings and doesn't require solvent.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT-CBX</td>
<td>ARIA Clebox Cassette Cleaner for all Single Fiber and Female MPO Connectors</td>
</tr>
<tr>
<td>AT-CBX-RL</td>
<td>Replacement Reel for ARIA Clebox</td>
</tr>
<tr>
<td>14100201</td>
<td>Cletop Cassette Cleaner for Male MPO Connectors</td>
</tr>
<tr>
<td>CL-MPOM-RL</td>
<td>Replacement Reel for Cletop Cassette Cleaner</td>
</tr>
</tbody>
</table>

**Stick Cleaners**

Stick Cleaners are used to clean bulkhead sleeves and connector ferrules when standard cleaners don't work.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLST12</td>
<td>1.25mm Stick Cleaner (200 pieces)</td>
</tr>
<tr>
<td>CLST25</td>
<td>2.50mm Stick Cleaner (200 pieces)</td>
</tr>
</tbody>
</table>

**Click Cleaners**

Click type cleaners work by inserting the tip onto a ferrule and pushing until and audible click is heard.

They clean unmated cable assemblies and connectors loaded in a bulkhead adapter.

Different models are available with support for 2.5mm, 1.25mm, MPO, ODLC, and ODMC connectors.

Performs over 500 cleanings and doesn't require solvent.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9392</td>
<td>Click Cleaner for 2.50mm Connectors (SC, ST, FC, and E2000)</td>
</tr>
<tr>
<td>9393</td>
<td>Click Cleaner for 1.25mm Connectors (LC and MU)</td>
</tr>
<tr>
<td>7104</td>
<td>Click Cleaner for MPO/MTP® Connectors (Male or Female)</td>
</tr>
<tr>
<td>12910</td>
<td>Click Cleaner for ODLC Connectors</td>
</tr>
<tr>
<td>IBC-ODMC-P</td>
<td>Click Cleaner for ODMC Plug Connectors</td>
</tr>
<tr>
<td>IBC-ODMC-S</td>
<td>Click Cleaner for ODMC Socket Connectors</td>
</tr>
</tbody>
</table>
The Connector Grabber allows for the insertion or removal of a fiber optic connector in tight spaces when hand access is not possible.

Fiber optic system installations often have densely packed patch panels.

Although they are space efficient, these patch panel arrays often make simple insertion and extraction of individual connectors difficult, if not nearly impossible.

When small form-factor connectors like LCs are involved, these difficulties are exacerbated.

It has been designed to work with virtually all rectangular or square cross-section connectors, providing a positive grip on a connector without crimping adjacent fibers.

### Removing an LC Connector

![Removing an LC Connector](image)

### Specifications

<table>
<thead>
<tr>
<th><strong>Compatible Connectors</strong></th>
<th>LC, MU, SC, E-2000, MT-RJ, and most other rectangular or square cross-section fiber optic connectors</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Material</strong></td>
<td>Nylon material offers excellent strength, stiffness, high temperature performance, and dimensional stability. Stainless steel return spring, nut, and bolt.</td>
</tr>
<tr>
<td><strong>Durability</strong></td>
<td>Tested to 1000 insertions/extractions without degradation of performance</td>
</tr>
<tr>
<td><strong>Unique Features</strong></td>
<td>Ergonomic handles and non-crimp jaws provide a positive grip on the connector and release tab while not crimping the fiber optic cables or connector boots in densely packed spaces</td>
</tr>
<tr>
<td><strong>Part Number</strong></td>
<td>CS-CGT</td>
</tr>
</tbody>
</table>

### Removing an SC Connector

![Removing an SC Connector](image)

### Removing an MPO Connector

![Removing an MPO Connector](image)
Zero RU Cable Management Tray
Cable Management, Cable Securement, and Racks

The ARIA Zero RU Cable Management Tray provides protection and organized management for cabling on flushmount 1RU Panels.

This product enhances existing flushmount 1RU panels and does not require the panel to be unmounted.

The door and receiving magnetic hardware are easily removed for different installation requirements.

A magnetic ID chart holder provides port identification.

**Removable Door with ID Chart Pouch**

**Specifications**

<table>
<thead>
<tr>
<th>Rack Units</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (Inches)</td>
<td>1.75 x 17 x 4.5 (HxWxD)</td>
</tr>
<tr>
<td>Mounting</td>
<td>19&quot; Frames</td>
</tr>
<tr>
<td>Material</td>
<td>1.5mm Thick Steel</td>
</tr>
<tr>
<td>Material Finish</td>
<td>Black Powder Coat</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>1.5</td>
</tr>
<tr>
<td>Part Number</td>
<td>ZRU-CMT</td>
</tr>
</tbody>
</table>

**Features**

- Provides an additional jumper management surface to equipment with no built-in forward management
- Does not protrude into rack space above or below the 1RU space in which it is mounted
- Mounts to the front of any flush-mount equipment without the need to remove rack screws
- Removable, magnetic-latching door helps retain jumpers and features an ID chart holder
- Cutouts for velcro or zip-ties allow easy grouping and management of cabling

**Dimensions**

**Installation**
Cable Slack Management Trays
Cable Management, Cable Securement, and Racks

Cable Slack Management Trays are 1RU rackmount panels designed for managing and routing cable slack.

A sliding tray model and fixed tray models are available.

The sliding tray model features a sliding tray, sliding cable entrance radius guides, a removable door, and a larger footprint for increased slack storage capacity.

The fixed tray model features multiple mounting depths and can be used in a zero RU configuration.

Numerous radius guides provide proper cable bend radius and organized cable management.

### Sliding Tray Model

![Sliding Tray Model Image]

### Fixed Tray Model

![Fixed Tray Model Image]

### Specifications

<table>
<thead>
<tr>
<th>Sliding Tray Model Specifications</th>
<th>Fixed Tray Model Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rack Units</strong></td>
<td>1</td>
</tr>
<tr>
<td><strong>Dimensions (Inches)</strong></td>
<td>1.75 x 17.0 x 11.0 (HxWxD)</td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
<td>19” or 23” Frames</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>1.5mm Thick Aluminum &amp; Steel</td>
</tr>
<tr>
<td><strong>Material Finish</strong></td>
<td>Dark Gray Powder Coat</td>
</tr>
<tr>
<td><strong>Weight (Empty) (lbs)</strong></td>
<td>5.0</td>
</tr>
<tr>
<td><strong>Capacity:</strong></td>
<td>Ø 3.0 mm: 50 m 20x 2.5m cables</td>
</tr>
<tr>
<td></td>
<td>Ø 2.0 mm: 75 m 30x 2.5m cables</td>
</tr>
<tr>
<td></td>
<td>Ø 1.6 mm: 90 m 36x 2.5m cables</td>
</tr>
<tr>
<td><strong>Part Number</strong></td>
<td>CSMT-SLIDING</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>1.5mm Thick Aluminum</td>
</tr>
<tr>
<td><strong>Material Finish</strong></td>
<td>Dark Gray Powder Coat</td>
</tr>
<tr>
<td><strong>Weight (Empty) (lbs)</strong></td>
<td>2.0</td>
</tr>
<tr>
<td><strong>Part Number for 19” Rack Model</strong></td>
<td>CSMT-FIXED-19IN</td>
</tr>
<tr>
<td><strong>Part Number for 23” Rack Model</strong></td>
<td>CSMT-FIXED-23IN</td>
</tr>
</tbody>
</table>
Cable Slack Management Tray
Cable Management, Cable Securement, and Racks

Sliding Tray Model Features
- 19" or 23" compatible EZ-mount rackmount brackets
- Multiple pathways to support different slack requirements
- Removable retention straps hold cable within the management tray
- EZ-mount rackmount brackets provide 2 mounting positions with 2 different orientations each
- Radius guides support proper bend radius
- Cable entrance radius guide slides out partially with the tray to enhance access but prevents the need for unnecessary slack
- Removable front door
- Removable radius guides support coiling of cable slack
- Removable edge radius guides prevent cable kinking and provide the proper bend radius
- Removable snap-in radius guides manage cable (2 included)

Fixed Tray Model Features
- Removable retention straps hold cable within the management tray
- EZ-mount rackmount brackets provide 2 mounting positions with 2 different orientations each
- Cable management tray has 2 mounting positions
- Removable radius guides support coiling of cable slack
- Removable edge radius guides prevent cable kinking and provide the proper bend radius
- Cable entrance radius guide slides out partially with the tray to enhance access but prevents the need for unnecessary slack

Fixed Tray Model Mounting Configurations
- 4" Behind the Rack
- Flush with the Rack
- 5" In Front of the Rack
- 8" In Front of the Rack

Accessories
- Snap-In Radius Guide for Fixed Tray Model
  P/N: Snap-In-Radius-Guide
Cable Clamps
Cable Management, Cable Securement, and Racks

Cable Clamps secure cables to prevent movement and provide proper bend radius.

They can be directly attached to AGX, OSEC, and 2RU ARM panels or attached to ARIA strain relief brackets.

12AT2 cable clamps are used to secure dielectric sheath cables with an outside diameter of 0.4" to 1.0" (1.02 cm to 2.54 cm).

12A3 cable clamps are used to secure and ground both metallic and dielectric sheath cable types with an outside diameter of 0.25" to 1.50" (0.635 cm to 3.81 cm).

Grounding and bonding kits can be added to 12AT2 cable clamps for grounding support of metallic sheath cables.

12AT2 Cable Clamp and Accessories

12AT2 Cable Clamp Attached to an SRE-W Bracket
P/N: 12AT2-SRE-W

12AT2 Cable Clamp for attachment to an SRB
P/N: 12AT2

Wallmount Grounding and Bonding Kit
P/N: GB-KIT

Rackmount Grounding Kit
P/N: RM-GROUND-KIT

12A3 Cable Clamp

Assembled 12A3 Cable Clamp

12A3 Cable Clamp for 0.25"-1.50" Diameter Cable
P/N: 12A3L-H
Lightpaths Raceway
Cable Management, Cable Securement, and Racks

Lightpaths™ Raceway Fiber Protection System is the ideal system for routing and protecting cables routed through exchanges, central offices, CATV headends, data centers, collocation sights, hubs, shelters, nodes, and customer premises.

Lightpaths™ maintains a 2” bend radius throughout the system.

Lightpaths™ is the only Halogen-free system on the market, and the only system that exceeds Telcordia GR-63 NEBS requirements as tested by an independent third party test lab.

Mounting Hardware
The parts connecting the Lightpaths™ system do not require mounting hardware. No other system on the market can make this claim. Parts are assembled in seconds with the new patented slide-on-joiner. Vertical drops can be added in less than 5 minutes by snapping them in place with no mounting hardware required. Drops exit the side of the raceway in order to not interfere with overhead ladder racking. Lightpaths™ is available in all popular sizes to accommodate virtually any application.

Available Services
Mounting kits are available to affix the ducting to the ladder racking, threaded rod, cabinets, racks, and wall. Technical application assistance and field support is provided to end-users, installers, and contractors. Installation services and engineering services are also available.

Typical Installations
Colocation Sites or Central Offices  CATV Headends or Data Centers  Customer Premises, Hubs, or Shelters  Fiber Frame Management

Standards
• ISO 9001 Certified Quality Management System by NCS International
• Fire retardant plastic, Halogen Free, UL94-VO rated
• UL2024A standard
• EEU - ROHS requirements
Cable Identification Sleeves
Cable Management, Cable Securement, and Racks

ARIA Cable Identification Sleeves are plastic sleeves that can be wrapped around simplex or duplex cables and labeled to provide the location of the telecommunication space that is associated with that cable.

It is recommended to install them on a straight section of the cable at least two inches from the fiber boot.

They can be labeled in the following FS-AN format:
F = A number identifying the floor of the building
S = A letter identifying the building area
A = 1 or 2 characters identifying a single patch panel
N = 2-4 characters identifying the port on the patch panel

Features
• Quickly provide a larger no mess labeling surface on small fiber cables allowing legends to be clearly seen
• Sleeves fit securely and stay in place even when used with vertical cabling
• Sleeves are made of a flexible flame retardant PVC material with a wide temperature rating (-11° to 167° F)
• Available in yellow, aqua, orange, and white colors with 1” or 2” long labeling surfaces
• Compatible with simplex and duplex cables with diameters of 2mm or 3mm
• Follows the TIA/EIA-606-A standards for horizontal link identifier requirements

How to Apply the Sleeve and Label
Wrap the sleeve around the fiber optic cable
Wrap a vinyl label around the sleeve

Color and Cable Type Options

Part Number

CIS-  1  2  3  4

1 Color
Y = Yellow
O = Orange
W = White
A = Aqua

2 Cable Diameter
2MM = 2mm
3MM = 3mm

3 Cable Type
SX = Simplex
DX = Duplex

4 Length
1IN = 1 Inch
2IN = 2 Inch
The MDM-12X Microduct Manifold Fitting provides a secure, weather-resistant termination point for up to 12 microducts, allowing fibers to easily be fed into an enclosure without exposing them to the elements.

The MDM-12X supports either 10mm OD or 8.5mm OD microduct, and can be used with almost any enclosure that has a 1.5” knockout or cable entry opening.

The microduct is locked in place and can be removed from the manifold by simply pressing on the colored outer ring of a coupler and pulling the microduct out.

Features
- Attaches to any 1.5” hole with termination points for up to twelve 10mm OD or 8.5mm OD microducts
- Adapter kit for use with 2.0” holes is available
- Lightweight (0.5lb), compact (5.0” tall x 3.6” diameter) durable (black nylon 6-6 material) design
- Gasketed, weather-resistant construction protects fibers from ingress of water, dust, and debris
- Rubber plugs seal unused microduct couplers if fewer than 12 terminations are needed
- Fitting installation and connection of microducts requires no tools or additional materials

Connect up to 12 Microducts

Install the manifold in a 1.5” hole in a wallmount enclosure
Remove a rubber plug from a coupler in the manifold
Insert the microduct into the coupler

Supported Wallmount Enclosures
- AWM 4 and AWM 18
- Tri-Panel Series
- NEMA 4 Rated AWM Series
- Large FDM
- SPLWM 2 and SPLWM 3
- ODE
- OSEC Series
- Hyperscale Splice 7K

Part Number

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDM-12X-8.5</td>
<td>Microduct Manifold Pre-Configured for 8.5mm OD Microduct</td>
</tr>
<tr>
<td>MDM-12X-10</td>
<td>Microduct Manifold Pre-Configured for 10.0mm OD Microduct</td>
</tr>
<tr>
<td>MDM-12X-2IN-KIT</td>
<td>Adapter Kit for Using the Microduct Manifold in a 2.0” Hole</td>
</tr>
</tbody>
</table>

ARIATECHNOLOGIES, INC.
Fiber Optic Connectivity®

(925) 447-7500
sales@ariatech.com
www.ariatech.com
ARIA Wallmount Racks provide a quick and easy way to wallmount panels designed for 19" rack applications.

Simply attach the rack to a secure mounting surface with the included fasteners and it’s ready to mount panels.

The 3RU & 6RU feature a compact, open, one piece design with rounded corners that prevent damage to personnel and equipment. It requires no assembly.

The 11RU features a multi-piece design with press-fit nuts that make it easy to assemble and facilitates efficient storage, transportation and deployment.

### 3RU Wallmount Rack

**Specifications**

<table>
<thead>
<tr>
<th>Material</th>
<th>3.6mm Thick Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material Finish</td>
<td>Black Powder Coat</td>
</tr>
<tr>
<td>Dimensions (Inches)</td>
<td>21.75 x 2.0 x 6.5 (HxWxD)</td>
</tr>
<tr>
<td>Panel Capacity</td>
<td>3RU</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>2.5</td>
</tr>
<tr>
<td>Weight Limit (lbs)</td>
<td>100</td>
</tr>
<tr>
<td>Part Number</td>
<td>3RU-WM-RACK</td>
</tr>
</tbody>
</table>

### 4RU Wallmount Rack

**Specifications**

<table>
<thead>
<tr>
<th>Material</th>
<th>3.0mm Thick Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material Finish</td>
<td>Black Powder Coat</td>
</tr>
<tr>
<td>Dimensions (Inches)</td>
<td>20.0 x 8.1 x 9.0 (HxWxD)</td>
</tr>
<tr>
<td>Panel Capacity</td>
<td>4RU</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>2.0</td>
</tr>
<tr>
<td>Weight Limit (lbs)</td>
<td>100</td>
</tr>
<tr>
<td>Part Number</td>
<td>4RU-WM-RACK</td>
</tr>
</tbody>
</table>
Wallmount Racks
Cable Management, Cable Securement, and Racks

6RU Wallmount Rack

Specifications

<table>
<thead>
<tr>
<th>Material</th>
<th>3.6mm Thick Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material Finish</td>
<td>Black Powder Coat</td>
</tr>
<tr>
<td>Dimensions (Inches)</td>
<td>21.8 x 2.5 x 12.0 (HxWxD)</td>
</tr>
<tr>
<td>Panel Capacity</td>
<td>6RU</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>5.0</td>
</tr>
<tr>
<td>Weight Limit (lbs)</td>
<td>150</td>
</tr>
<tr>
<td>Part Number</td>
<td>6RU-WM-RACK</td>
</tr>
</tbody>
</table>

11RU Wallmount Rack

Regular Model Specifications

<table>
<thead>
<tr>
<th>Material</th>
<th>2.0mm Thick Steel and 3.0mm Thick Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material Finish</td>
<td>Black Powder Coat</td>
</tr>
<tr>
<td>Dimensions (Inches)</td>
<td>23 x 20.5 x 12.8 (HxWxD)</td>
</tr>
<tr>
<td>Panel Capacity</td>
<td>11RU</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>11.0</td>
</tr>
<tr>
<td>Weight Limit (lbs)</td>
<td>200</td>
</tr>
<tr>
<td>Part Number</td>
<td>11RU-WM-RACK</td>
</tr>
</tbody>
</table>

19" Deep Model Specifications

<table>
<thead>
<tr>
<th>Material</th>
<th>2.0mm Thick Steel and 3.0mm Thick Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material Finish</td>
<td>Black Powder Coat</td>
</tr>
<tr>
<td>Dimensions (Inches)</td>
<td>23 x 20.5 x 19.0 (HxWxD)</td>
</tr>
<tr>
<td>Panel Capacity</td>
<td>11RU</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>11.0</td>
</tr>
<tr>
<td>Weight Limit (lbs)</td>
<td>200</td>
</tr>
<tr>
<td>Part Number</td>
<td>11RU-DEEP-WM-RACK</td>
</tr>
</tbody>
</table>
IDF Wallmount Rack provides a lockable cabinet with a 6RU rack and an exposed 4RU rack for use in an intermediate distribution frame (IDF) closet at a customer premise or central office.

The rack can be oriented so that the lockable cabinet is on the bottom or top and a Wallmount DPP can be attached to the left, right, top, or bottom side.

The rack can come pre-assembled with patch panels installed in both the lockable cabinet and exposed area with cabling on the back side connecting them.

**Specifications**

<table>
<thead>
<tr>
<th>Material</th>
<th>1.5-3.0mm Thick Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material Finish</td>
<td>Black Powder Coat</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>21.3&quot; x 20.8&quot; x 18.4&quot;</td>
</tr>
<tr>
<td>Exposed Rack Capacity</td>
<td>4RU</td>
</tr>
<tr>
<td>Locking Cabinet Capacity</td>
<td>6RU</td>
</tr>
<tr>
<td>Weight (Empty) (lbs)</td>
<td>15.0</td>
</tr>
<tr>
<td>Weight Limit (lbs)</td>
<td>200</td>
</tr>
</tbody>
</table>

**Part Number**

IDFWMR-4E-6C- - -

1. Exposed Patch Panel
   - Leave Blank for No Panels
   - Choose 1 Option for Each Feature:
     - X1RU24E = X 1RU 24-Port Patch Panel(s)
     - X1RU48E = X 1RU 48-Port Patch Panel(s)
     - X2RU48E = X 2RU 48-Port Patch Panel(s)
     - XBE = X Blank 1RU Panel(s)

2. Cabinet Patch Panel
   - Leave Blank for No Panels
   - Choose 1 Option for Each Feature:
     - X1RU24C = X 1RU 24-Port Patch Panel(s)
     - X1RU48E = X 1RU 48-Port Patch Panel(s)
     - X2RU48C = X 2RU 48-Port Patch Panel(s)
     - XBC = X Blank 1RU Panel(s)

3. Cabling Between Patch Panels
   - Leave Blank for No Cabling
   - C5E = Cat 5E
   - C6 = Cat 6
   - C6A = Cat 6A
Ethernet Patch Cables
Copper Products

Ethernet patch cables provide high speed network connectivity with Cat5e, Cat6, or Cat6A specifications.

They feature various boot options to protect the clip during usage and stranded wire for repeated flexing and movement without micro-cracking of the copper.

These cables use a short body plug design that minimizes de-twisting of the pairs during the manufacturing process, assuring high performance.

Various color and length options are available.

A slim jacket is available for Cat6 and Cat6A cables providing a more flexible and compact cable jacket.

Features
• Various boot options available
• Injection molded boots comply with critical bend radius requirements and seal the plug/cable interface
• “Flush” mold design allows booted patch cables to be installed side by side in high-density patch fields
• 50u short body plugs have minimal “de-twisting” of the cable pairs during manufacturing
• 28 AWG regular jacketed and 24AWG slim jacketed cables are available
• Compliant with EIA/TIA specifications
• Available with gray, blue, white, red, black, green, yellow, purple, or orange colored jackets

Maximum Speed

<table>
<thead>
<tr>
<th></th>
<th>Cat5e</th>
<th>Cat6</th>
<th>Cat6A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed</td>
<td>1,000 Mbps at 100m</td>
<td>1,000 Mbps at 100m or 10,000 Mbps at 55m</td>
<td>10,000 Mbps at 100m</td>
</tr>
</tbody>
</table>

Boot Options

No Boot
Flush Boot
Finger Boot
## Ethernet Patch Cables

**Copper Products**

<table>
<thead>
<tr>
<th>Color Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue</td>
</tr>
</tbody>
</table>

### Slim Jacket Available

![Standard patch cable](24AWG (approx. 0.24in))

![Slim Jacket patch cable](28AWG (approx. 0.15in))

### Part Number

**CAT-**

<table>
<thead>
<tr>
<th>Category</th>
<th>Boot Type</th>
<th>Jacket Color</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

- **Category**
  - 5E = Cat5E
  - 6 = Cat6
  - 6A = Cat6A

- **Boot Type**
  - FL = Flush Boot
  - FG = Finger Boot*
  - NB = No Boot**

- **Jacket Color**
  - BU = Blue
  - OR = Orange
  - GN = Green
  - BR = Brown
  - GR = Gray
  - WT = White
  - RD = Red
  - BK = Black
  - YL = Yellow
  - PR = Purple*
  - PK = Pink**

- **Length**
  - 0.5 = 6 Inch*
  - 1 = 1 Foot
  - 2 = 2 Feet
  - 3 = 3 Feet
  - 4 = 4 Feet
  - 5 = 5 Feet
  - 6 = 6 Feet
  - 7 = 7 Feet
  - 10 = 10 Feet
  - 14 = 14 Feet
  - 15 = 15 Feet
  - 20 = Feet
  - 25 = Feet**
  - 50 = Feet**
  - 75 = Feet**
  - 100 = 100 Feet**

*Not available for Cat6A

**Regular Jacket**

**Not available for Cat6A or Slim Jacket**

*Slime Jacket Only

**Regular Jacket Only
EZ Feed RJ45 Products
Copper Products

EZ Feed RJ45 Products are a system of components that make it extremely easy for a user to quickly terminate category ethernet patch cables with low loss.

No stripping of the conductor wire jackets is necessary and the connector is made of clear plastic which greatly reduces the time and skill required for termination.

To terminate a cable using these products: insert a boot over the cable, strip the jacket and remove any extra internal materials, untwist the wires and feed them in the proper orientation through the connector, insert the connector into the tool, crimp, and attach the boot.

**Connector**
EZ Feed RJ45 Modular Plugs are the must have quality connector for all datacom and telecom installers.

Saves time and money with it’s easy to use feed through design.

**Crimp Tool**
This crimp tool crimps and cuts extended wire in EZ Feed RJ45 connectors in a single cycle.

The ratcheted straight action crimping motion ensures a uniform crimp.

**RJ45 Slip on Boot**
This oversized slip on boot provides strain relief and protect against dust and snags for RJ45 plugs.

It fits stranded or solid CAT 5, CAT 5E, CAT 6, and CAT 6A cables with a maximum diameter of 6.8 mm.

**Features**
- For round solid or stranded cable
- Compatible w/ 23-26 AWG Cable OD under 6.5mm
- 3 Prong gold plated conductors
- Strain relief bar secures connector around cable

**RJ45 Slip on Boot Color Options**
- Blue
- Black
- White
- Gray
- Green
- Red
- Yellow

**Features**
- Oversized Snagless Boot for CAT 5, CAT 5E, CAT 6, or CAT 6A Cable
- Provides Strain Relief for Cable
- For use with Solid or Stranded Round Cable
- Wire Insert Diameter 6.8mm (0.27”)
EZ Feed RJ45 Products
Copper Products

Cat Cable
Cat cable is available in Cat 5E, Cat 6, or Cat 6A and functions as a high performance data communications cable.

It is available in different colors, jacket types, conductor styles, and shielding configurations.

Features
- Easily Identified Color Striped Pairs
- Excellent Attenuation And Crosstalk Characteristics
- UL Listed
- RoHS Compliant
- Sequential Length Markings On Jacket
- Meets and/or exceeds TIA 568 C.2 standards

Color Options
- Blue
- Black
- White
- Gray
- Green
- Red
- Yellow

Part Number

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Product</td>
<td>Category</td>
<td>Cable Option</td>
<td>Color</td>
</tr>
<tr>
<td></td>
<td>CO = Connector*</td>
<td>Leave Blank for Boot or Crimp Tool</td>
<td>Leave Blank for Connector, Boot, or Crimp Tool</td>
<td>Leave Blank for Connector or Crimp Tool</td>
</tr>
<tr>
<td></td>
<td>SC = Shielded Connector*</td>
<td>5E = Cat5E</td>
<td>Choose 1 option for each feature: T = Stranded or O = Solid Conductors</td>
<td>BU = Blue</td>
</tr>
<tr>
<td></td>
<td>BO = Boot*</td>
<td>06 = Cat6</td>
<td>I = Indoor, X = I/O, or O = Outdoor Cable</td>
<td>BK = Black</td>
</tr>
<tr>
<td></td>
<td>CA = Cable**</td>
<td>6A = Cat6A</td>
<td>R = Riser, P = Plenum, or U = Unrated Jacket</td>
<td>WT = White</td>
</tr>
<tr>
<td></td>
<td>CR = Crimp Tool</td>
<td></td>
<td>N = No, Y = Yes, D = Dual, or B = Braided Shield</td>
<td>GY = Gray</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>GN = Green</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>RD = Red</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>YL = Yellow</td>
</tr>
</tbody>
</table>

*Sold in quantities of 25, 50, or 100
**Sold in lengths of 250, 500, or 1,000 feet
ARIA Keystone Jack Adapter Plates are designed to fit in standard LGX type enclosures and accommodate up to six snap-in keystone jacks for fast and easy installation.

Choose from a variety of our keystone jacks to create the perfect solution for a home or office network.

**Supported Keystone Jacks**

<table>
<thead>
<tr>
<th>Type</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT 5E Keystone Jack</td>
<td>CAT5-KJ</td>
<td>P/N: CAT5-KJ</td>
</tr>
<tr>
<td>CAT 6 Keystone Jack</td>
<td>CAT6-KJ</td>
<td>P/N: CAT6-KJ</td>
</tr>
<tr>
<td>Singlemode LC Duplex</td>
<td>LCDX-KJ</td>
<td>P/N: LCDX-KJ</td>
</tr>
<tr>
<td>Fiber Keystone Jack</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Singlemode SC Simplex</td>
<td>SCSX-KJ</td>
<td>P/N: SCSX-KJ</td>
</tr>
<tr>
<td>Fiber Keystone Jack</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAT 5E Keystone Jack</td>
<td>CAT5-FC-KJ</td>
<td>Feedthrough Coupler (P/N: CAT5-FC-KJ)</td>
</tr>
<tr>
<td>CAT 6 Keystone Jack</td>
<td>CAT6-FC-KJ</td>
<td>Feedthrough Coupler (P/N: CAT6-FC-KJ)</td>
</tr>
<tr>
<td>CAT 6 Keystone Jack</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Part Number**

```
LGXKJ- 1 2 3
```

1. **Number of Jacks**
   - 1 = 1 Keystone Jack
   - 2 = 2 Keystone Jacks
   - 3 = 3 Keystone Jacks
   - 4 = 4 Keystone Jacks
   - 5 = 5 Keystone Jacks
   - 6 = 6 Keystone Jacks

2. **Keystone Jack Type**
   - CAT5 = CAT5E Keystone Jack
   - CAT6 = CAT6 Keystone Jack
   - LCDX = Singlemode LC Duplex Fiber Keystone Jack
   - SCSX = Singlemode SC Simplex Fiber Keystone Jack

3. **CAT 6 Keystone Jack Color**
   - AL = Almond
   - BK = Black
   - BL = Blue
   - GR = Green
   - IV = Ivory
   - OR = Orange
   - WH = White
   - YL = Yellow
   - GY = Gray
   - RD = Red
Keystone Jack Patch Panels organize ethernet or fiber keystone jack connections and mount in a 19" telecom rack.

Connections can be labeled for easy identification.

An additional support bar is provided in the rear for cable organization.

Panels can be provided empty or loaded with keystone jacks.

**Features**
- Panels support keystone jacks and accommodate a variety of wiring configurations
- Pre-numbered ports and blank labeling area provide clear port identification
- 24 port in 1RU & 48 port in 2RU
- Unshielded version supports ICON facility
- Support bar organizes cable and helps maintain an optimal bend radius

**Applications**
- Telecommunications Closets
- Data Centers
- Customer Premise
- Local Area Networks
- Wide Area Networks
- Central Offices
- Cabinets

**Supported Keystone Jacks**

- **CAT 5E Keystone Jack**
  - P/N: CAT5-KJ

- **CAT 6 Keystone Jack**
  - P/N: CAT6-KJ

- **Singlemode LC Duplex Fiber Keystone Jack**
  - P/N: LCDX-KJ

- **Singlemode SC Simplex Fiber Keystone Jack**
  - P/N: SCSX-KJ

- **CAT 5E Keystone Jack Feedthrough Coupler**
  - P/N: CAT5-FC-KJ

- **CAT 6 Keystone Jack Feedthrough Coupler**
  - P/N: CAT6-FC-KJ

**Part Number**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATMPPA24</td>
<td>1RU 24 Port Capacity</td>
</tr>
<tr>
<td>ATMPPA48</td>
<td>2RU 48 Port Capacity</td>
</tr>
</tbody>
</table>

**Supported Keystone Jacks**

|----------------------|---------------------|------------------------------------------|------------------------------------------|----------------------------------------|----------------------------------------|
ARIA Media Converters connect copper and fiber optic networks together with reliable and stable performance.

Media Converters are commonly used when the distance limit for copper cable (100m) is exceeded and fiber optic cable is needed because it is capable of transmission over longer distances.

This media converter supports gigabit speeds.

They come equipped with a dual fiber SC, FC, or LC adapter and an RJ45 port.

**Features**

- Interconverts electrical signals of 10Base-T/100Base-TX/1000Base-T twisted pairs with optical signals of 1000Base-SX/LX
- Auto-sensing of full-duplex and half-duplex communications systems
- External power supply included
- Auto-sensing of MDI/MDI-X is supported and facilitates system commissioning and installation
- Supports interconversion between 10/100/1000Base-T and 1000Base-SX/LX
- Supporting the transmission of extra-long VLAN packets.
- Store-and-Forward mechanism
- Supports Quality of Service (QoS) technology and ensures the transmission of VoIP packets

**Example Usage**
Media Converters
Copper Products

Surface Mounting Brackets Available
DIN Rail Mounting Brackets Available

Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Access mode</strong></td>
<td>10/100/1000Mbps Gigabit Ethernet</td>
</tr>
<tr>
<td><strong>Standard</strong></td>
<td>IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX Fast Ethernet,</td>
</tr>
<tr>
<td></td>
<td>IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-SX/LX Gigabit Ethernet</td>
</tr>
<tr>
<td><strong>Wavelength</strong></td>
<td>Singlemode: 1310nm/1490nm/1550nm or Multimode: 850nm</td>
</tr>
<tr>
<td><strong>Transmission distance</strong></td>
<td>Singlemode 9/125μm: 20km, 40km, 60km, 80km, or 100km</td>
</tr>
<tr>
<td></td>
<td>Multimode 62.5/125μm: 220 m; 50/125μm: 550 m; Category-5 twisted pairs: 100m</td>
</tr>
<tr>
<td><strong>Port</strong></td>
<td>One RJ45 port: Connecting STP/UTP category-5 twisted pairs, EIA568A/B</td>
</tr>
<tr>
<td></td>
<td>One optical port: Dual-fiber: SC, FC, or LC</td>
</tr>
<tr>
<td><strong>BER</strong></td>
<td>&lt;10^-9</td>
</tr>
<tr>
<td><strong>MTBF</strong></td>
<td>100,000 hours</td>
</tr>
<tr>
<td><strong>LED indicator</strong></td>
<td>POWER (power supply), FX LINK (optical link action),</td>
</tr>
<tr>
<td></td>
<td>TP LINK1000 (TP cable rate1000M), TP LINK100 (TP cable rate 100M)</td>
</tr>
<tr>
<td></td>
<td>TP ACT (TP cable packet forwarding action), FDX (TP full duplex operation)</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>AC90~264V input, 5V2A output</td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>5W</td>
</tr>
<tr>
<td><strong>Operating Temperature (°C)</strong></td>
<td>-10~+55</td>
</tr>
<tr>
<td><strong>Operating Humidity</strong></td>
<td>5%~90%</td>
</tr>
<tr>
<td><strong>Dimensions (mm)</strong></td>
<td>26 x 71 x 94 (HxWxD)</td>
</tr>
</tbody>
</table>

Part Number

MC-3011-  -  -  -

1 Fiber Type
SM = Singlemode
MM = Multimode

2 Connector Type
SC = SC
FC = FC
LC = LC

3 Transmission Distance
Leave blank for multimode
20 = 20km
40 = 40km
60 = 60km
80 = 80km
100 = 100km

4 Mounting Brackets
Leave blank for no mounting brackets
BKT = Surface Mounting Brackets Included
DIN = DIN Rail Mounting Brackets Included

ARIA TECHNOLOGIES, INC.
Fiber Optic Connectivity ™

(925) 447-7500
sales@ariatech.com
www.ariatech.com
MPO Polarity Management

Resources

There are many different wiring methods for MPO to MPO based fiber optic cable assemblies and it is important to design the assembly with the correct method in order to maintain polarity within the system.

The following examples show the MPO pinouts looking at the connector endface for each of the wiring methods.

12-Fiber MPO Wiring Methods

Method A: Same Pinout on Each End
Method B: Position 1 Switches Places with 12 and 2 with 11 Etc.
Method C: Pairs Switch Places

24-Fiber MPO Wiring Methods

Option 1: Same Pinout on Each End
Option 2: Top and Bottom Switch Places

A-to-B Duplex Patch Cable Polarity
A-to-A Duplex Patch Cable Polarity

The most common duplex patch cable polarity type is A-to-B. MTP® and duplex patch cable polarity must be correctly utilized in order to achieve proper signal transmission in an optical network utilizing MTP® connectors.
Method A

Method A uses a single module type wired in a “straight-through” configuration and two different patch cords in an optical circuit.

One patch cord is straight wired and the other has a pair-wise flip.

All components in the channel are mated key-up to key-down.

No guidance is included in the standard to differentiate where the patch cord with pair-wise flips should be used and how it should be made so that it is easily recognizable from the regular duplex patch cord “straight-wired.”

Because polarity is addressed in the patch cords, the end-user is ultimately responsible for managing it.

Method A Trunk Cable (Straight Cable)

Method A System

Note: This method requires A-to-A type patch cables on one end of the system.
MPO Polarity Management

Method B

Method B uses a single module type wired in a straight-through configuration and standard patch cords on both ends. The differences are that all components in the system are mated key-up to key-up.

When the link is configured in this fashion, physical position #1 goes to physical position #12 on the other end. A module on one end is inverted so logically (label-wise) position #1 goes to position #1.

This method requires advanced planning for module locations in order to identify the module types and location of the inverted module in the optical link.

Using an MTP® Connector key-up to key-up configuration does not easily accommodate angled polished (APC) single-mode connectors.

Method B Trunk Cable (Crossover Cable)

Method B System

Note: This method requires one of the cassette pairs to have reversed polarity and is not available for singlemode networks.
**Method C**

Method C uses a pair-wise fiber flip in the trunk cable to correct for polarity.

This enables the use of the same module type on both ends of the channel and standard patch cords.

Because polarity is managed in the trunk, extending the links requires planning of the number of trunks in order to maintain polarity.

The TIA standard does not include text regarding the ability to migrate to parallel optics for Method C, but parallel optic capability can easily be achieved with a special patch cord to reverse the pair-wise fiber flips in the trunk.

**Method C Trunk Cable (Pairwise Flip Cable)**

**Method C System**

Note: This method is only available when using a micro distribution trunk cable.
The National Electrical Manufacturers Association (NEMA) has defined standards for various grades of enclosures that are rated to provide protection from environmental conditions.

A NEMA rated enclosure provides protection against environmental hazards such as water, dust, oil or coolant or atmospheres containing corrosive agents.

Similar to NEMA ratings, the IP Code, International Protection Marking, International Electrotechnical Commission (IEC) standard 60529, sometimes interpreted as Ingress Protection Marking, classifies and rates the degree of protection an enclosure provides against intrusion (body parts such as hands and fingers), dust, accidental contact, and water.

<table>
<thead>
<tr>
<th>NEMA Rating</th>
<th>IP Equivalent</th>
<th>NEMA Definition</th>
<th>IP First Digit (Solid Particle Protection)</th>
<th>IP Second Digit (Liquid Ingress Protection)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>IP10</td>
<td>Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment and to provide a degree of protection against falling dirt.</td>
<td>1 = Protected against solid foreign objects of 50mm in diameter and greater</td>
<td>0 = Not Protected</td>
</tr>
<tr>
<td>2</td>
<td>IP11</td>
<td>Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment, to provide a degree of protection against falling dirt, and to provide a degree of protection against dripping and light splashing of liquids.</td>
<td>1 = Protected against solid foreign objects of 50mm in diameter and greater</td>
<td>1 = Protected against vertically falling water drops</td>
</tr>
<tr>
<td>3</td>
<td>IP54</td>
<td>Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, and windblown dust; and that will undamaged by external formation of ice.</td>
<td>5 = Protected against dust - Limited to ingress (no harmful deposit)</td>
<td>4 = Protected against water sprayed from all directions - Limited to ingress permitted.</td>
</tr>
<tr>
<td>3R</td>
<td>IP14</td>
<td>Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, and snow; and that will be undamaged by external formation of ice.</td>
<td>1 = Protected against vertically falling water drops</td>
<td>4 = Protected against water sprayed from all directions - Limited to ingress permitted.</td>
</tr>
<tr>
<td>3S</td>
<td>IP54</td>
<td>Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, and windblown dust; and in which the external mechanism(s) remain operable when ice laden.</td>
<td>5 = Protected against dust - Limited to ingress (no harmful deposit)</td>
<td>4 = Protected against water sprayed from all directions - Limited to ingress permitted.</td>
</tr>
</tbody>
</table>
## NEMA and IP Ratings

<table>
<thead>
<tr>
<th>NEMA Rating</th>
<th>IP Equivalent</th>
<th>NEMA Definition</th>
<th>IP First Digit (Solid Particle Protection)</th>
<th>IP Second Digit (Liquid Ingress Protection)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>IP66</td>
<td>Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, and hose-directed water; and that will be undamaged by the external formation of ice.</td>
<td>6 = Totally protected against dust</td>
<td>6 = Protected against strong jets of water from all directions - Limited to ingress permitted.</td>
</tr>
<tr>
<td>4X</td>
<td>IP66</td>
<td>Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, hose-directed water, and corrosion; and that will be undamaged by the external formation of ice.</td>
<td>6 = Totally protected against dust</td>
<td>6 = Protected against strong jets of water from all directions - Limited to ingress permitted.</td>
</tr>
<tr>
<td>5</td>
<td>IP52</td>
<td>Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against settling airborne dust, lint, and fibers; and to provide a degree of protection against dripping and light splashing of liquids.</td>
<td>5 = Protected against dust - Limited to ingress (no harmful deposit)</td>
<td>2 = Protected against direct sprays of water up to 15° from the vertical.</td>
</tr>
<tr>
<td>6</td>
<td>IP67</td>
<td>Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against hose-directed water and the entry of water during occasional temporary submersion at a limited depth; and that will be undamaged by the external formation of ice.</td>
<td>6 = Totally protected against dust</td>
<td>7 = Protected against the effects of temporary immersion between 15cm and 1m. Duration of test 30 minutes.</td>
</tr>
<tr>
<td>6P</td>
<td>IP68</td>
<td>Enclosures constructed for either indoor or outdoor use to provide a degree of protection to the personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against hose-directed water and the entry of water during prolonged submersion at a limited depth; and that will be undamaged by the external formation of ice.</td>
<td>6 = Totally protected against dust</td>
<td>8 = Protected against the effects of continuous immersion between 1m and 1.5m. Duration of test 30 minutes.</td>
</tr>
<tr>
<td>12 &amp; 12K</td>
<td>IP52</td>
<td>Enclosures constructed (without knockouts) for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against circulating dust, lint, and fibers; and against dripping and light splashing of liquids.</td>
<td>5 = Protected against dust - Limited to ingress (no harmful deposit)</td>
<td>2 = Protected against direct sprays of water up to 15° from the vertical.</td>
</tr>
<tr>
<td>13</td>
<td>IP54</td>
<td>Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against circulating dust, lint, and fibers; and against the spraying, splashing, and seepage of water, oil, and noncorrosive coolants.</td>
<td>5 = Protected against dust - Limited to ingress (no harmful deposit)</td>
<td>4 = Protected against water sprayed from all directions - Limited to ingress permitted.</td>
</tr>
</tbody>
</table>
Riser or Plenum Rated

Indoor tight buffered cables assure reliable broadband performance, meet flame retardant safety codes, and support easy field termination.

This cable family packages 900μm tight buffered fibers into a single flame retardant cable. This cable design is available in both riser rated and plenum rated versions for deployment in any indoor application.

The tight buffered distribution cable supports standard installation practices and may be easily terminated using established field connectorization methods.

Features

- 900μm tight buffered fibers are designed to support rapid field termination
- Industry standard color coding provides quick, error-free fiber identification
- Single-Unit designs provide space savings and cost advantages
- Subunit construction improves organization and termination practices
- Available with bend-insensitive singlemode and multimode optical fibers
- Flexible, flame-retardant, and color coded outer jacket
- Supports all high performance networks including OM4/10 Gigabit Ethernet systems

Fiber Information

<table>
<thead>
<tr>
<th>Fiber Type</th>
<th>Wavelength (nm)</th>
<th>Attenuation (dB/km)</th>
<th>Bandwidth (MHz km)</th>
<th>1 GbE Distance (meters)</th>
<th>10 GbE Distance (meters)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Singlemode</td>
<td>1310 / 1383 / 1550</td>
<td>0.7/0.7/0.7</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Singlemode Bend Insensitive</td>
<td>1310 / 1383 / 1550</td>
<td>0.7/0.7/0.7</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Multimode (62.5μm)</td>
<td>850/1300</td>
<td>3.5/1.0</td>
<td>200/500</td>
<td>300/550</td>
<td>33</td>
</tr>
<tr>
<td>Multimode (50μm)</td>
<td>850/1300</td>
<td>3.5/1.5</td>
<td>500/500</td>
<td>550/550</td>
<td>82</td>
</tr>
<tr>
<td>Multimode OM3 (50μm)</td>
<td>850/1300</td>
<td>3.5/1.5</td>
<td>1500/500</td>
<td>1000/550</td>
<td>300</td>
</tr>
<tr>
<td>Multimode OM4 (50μm)</td>
<td>850/1300</td>
<td>3.5/1.5</td>
<td>3500/500</td>
<td>1100/550</td>
<td>550</td>
</tr>
</tbody>
</table>
### Riser Specifications

<table>
<thead>
<tr>
<th>Fiber Count</th>
<th>Diameter (mm)</th>
<th>Cable Weight (kg/km)</th>
<th>Bend Radius Load (cm)</th>
<th>Bend Radius No Load (cm)</th>
<th>Maximum Installation Load (newtons)</th>
<th>Maximum Operation Load (newtons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.19 (4.8)</td>
<td>15 (22)</td>
<td>3.8 (9.7)</td>
<td>1.9 (4.9)</td>
<td>148 (660)</td>
<td>44.4 (198)</td>
</tr>
<tr>
<td>4</td>
<td>0.22 (5.6)</td>
<td>19 (28)</td>
<td>4.4 (11.2)</td>
<td>2.2 (5.6)</td>
<td>148 (660)</td>
<td>44.4 (198)</td>
</tr>
<tr>
<td>6</td>
<td>0.24 (6.0)</td>
<td>21 (31)</td>
<td>4.8 (12.2)</td>
<td>2.4 (6.1)</td>
<td>148 (660)</td>
<td>44.4 (198)</td>
</tr>
<tr>
<td>8</td>
<td>0.25 (6.2)</td>
<td>23 (34)</td>
<td>5.0 (12.7)</td>
<td>2.5 (6.4)</td>
<td>148 (660)</td>
<td>44.4 (198)</td>
</tr>
<tr>
<td>12</td>
<td>0.28 (7.0)</td>
<td>30 (45)</td>
<td>5.6 (14.3)</td>
<td>2.8 (7.2)</td>
<td>148 (660)</td>
<td>44.4 (198)</td>
</tr>
<tr>
<td>18</td>
<td>0.28 (7.0)</td>
<td>35 (51)</td>
<td>5.5 (14.0)</td>
<td>2.8 (7.0)</td>
<td>296 (1320)</td>
<td>88.8 (396)</td>
</tr>
<tr>
<td>24</td>
<td>0.32 (8.1)</td>
<td>43 (64)</td>
<td>6.4 (16.3)</td>
<td>3.2 (8.2)</td>
<td>296 (1320)</td>
<td>88.8 (396)</td>
</tr>
</tbody>
</table>

### Plenum Specifications

<table>
<thead>
<tr>
<th>Fiber Count</th>
<th>Diameter (mm)</th>
<th>Cable Weight (kg/km)</th>
<th>Bend Radius Load (cm)</th>
<th>Bend Radius No Load (cm)</th>
<th>Maximum Installation Load (newtons)</th>
<th>Maximum Operation Load (newtons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16 (4.2)</td>
<td>9 (13)</td>
<td>3.2 (8.2)</td>
<td>1.6 (4.1)</td>
<td>98.9 (440)</td>
<td>29.6 (132)</td>
</tr>
<tr>
<td>4</td>
<td>0.17 (4.3)</td>
<td>14 (21)</td>
<td>3.4 (8.7)</td>
<td>1.7 (4.4)</td>
<td>98.9 (440)</td>
<td>29.6 (132)</td>
</tr>
<tr>
<td>6</td>
<td>0.18 (4.7)</td>
<td>15 (22)</td>
<td>3.6 (9.2)</td>
<td>1.8 (4.6)</td>
<td>98.9 (440)</td>
<td>29.6 (132)</td>
</tr>
<tr>
<td>8</td>
<td>0.20 (5.0)</td>
<td>18 (27)</td>
<td>4.0 (10.2)</td>
<td>2.0 (5.1)</td>
<td>98.9 (440)</td>
<td>29.6 (132)</td>
</tr>
<tr>
<td>12</td>
<td>0.23 (5.8)</td>
<td>22 (33)</td>
<td>4.6 (11.7)</td>
<td>2.3 (5.9)</td>
<td>98.9 (440)</td>
<td>29.6 (132)</td>
</tr>
<tr>
<td>18</td>
<td>0.26 (6.5)</td>
<td>32 (48)</td>
<td>5.1 (13.0)</td>
<td>2.6 (6.5)</td>
<td>148 (660)</td>
<td>44.4 (198)</td>
</tr>
<tr>
<td>24</td>
<td>0.30 (7.6)</td>
<td>42 (62)</td>
<td>6.0 (15.3)</td>
<td>3.0 (7.7)</td>
<td>148 (660)</td>
<td>44.4 (198)</td>
</tr>
</tbody>
</table>

### Specifications

**Applications:** Versatile Indoor Flame-Rated Cable provides unsurpassed performance for intrabuilding applications that require crossing floors in multi-level buildings or placement in air handling spaces.

**Constructions:** Single-Unit (≤ 24f); Subunits (≥ 18f); Interlock Armor optional

**Flame Ratings:** Riser (OFNR / OFCR / FT4); Plenum (OFNP / OFCP / FT6)

**Standards:** ANSI/ICEA S-83-596, UL-1666, NFPA 262, CSA 22.2 No 230, Telcordia GR-409, RoHS Compliant

**Temperatures:**
- Shipping and Storage - Riser/Plenum: -40 °F to +176 °F (-40 °C to +80 °C)
- Installation - Riser: +14 °F to +140 °F (-10 °C to +60 °C), Plenum: +32 °F to +140 °F (0 °C to +60 °C)
- Operation - Riser: -4 °F to +176 °F (-20 °C to +80 °C), Plenum: +32 °F to +176 °F (0 °C to +80 °C)
Interlocking Armor Plenum Rated

Overview
With a rugged, armored design delivering up to 10 to 13 times the crush resistance of standard fiber optic cable, interlocking armor fiber cables are ideal for campus & building backbones, data centers and industrial applications.

Interlocking Armor Plenum fiber cables are not governed by fill ratios because they are UL listed as cable assemblies, allowing a higher concentration of cables in an area compared to conduit. Because the cable is extremely durable and has an indoor rating, Interlocking Armor Plenum is an excellent choice for campus environments.

Interlocking Armor Plenum fiber cables also provide outstanding flexibility for modifications, alterations and changes, (MACs) as well as relocations, pathway changes or design modifications after the cable has been pulled, something conduit cannot easily accommodate.

Protecting optical fiber cables with interlocking armor provides improved network reliability, flexibility and security. It is a user-friendly, cost and space effective alternative to conduit or plenum innerduct. By installing Interlocking Armor Plenum fiber cables instead of plenum innerduct or conduit, savings can run from 25-50% in materials, and reduce costly installation time and labor costs by as much as 60%. This is a significant advantage over traditional installation methods.

Interlocking armor delivers superior crush and rodent resistance as well as security and is available in fiber counts of 6-24.

Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Step index singlemode or graded index multimode optical fiber with protective UV cured acrylate coating</td>
</tr>
<tr>
<td>Coating Diameter</td>
<td>245 ± 10 μm</td>
</tr>
<tr>
<td>Buffer Jacket</td>
<td>PVC - 900 ± 50 μm (0.0354 in) Outer Diameter (OD)</td>
</tr>
<tr>
<td>Configuration</td>
<td>12-24 tight buffer fibers are in a matrix of aramid strength members enclosed under an inner jacket. Armor and a second jacket is applied</td>
</tr>
<tr>
<td>Armor</td>
<td>Aluminum Interlock</td>
</tr>
<tr>
<td>Jacket Material, Inner &amp; Outer</td>
<td>Plenum Grade Thermoplastic</td>
</tr>
<tr>
<td>Jacket Color</td>
<td>Orange for Multimode, Aqua for OM3, or Yellow for Singlemode</td>
</tr>
<tr>
<td>Cable Weight</td>
<td>129 kg/km (87 lb/1000 ft) (12 Fiber)</td>
</tr>
<tr>
<td>Cable Outer Diameter</td>
<td>13.3-15.3 mm (0.523-0.602 in) (12-24 Fiber)</td>
</tr>
</tbody>
</table>
Interlocking Armor Plenum Rated

<table>
<thead>
<tr>
<th>Description</th>
<th>Singlemode</th>
<th>Multimode 62.5 µm</th>
<th>Multimode 50 µm</th>
<th>Multimode OM3 50 µm</th>
<th>Multimode OM4 50 µm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cladding Diameter</td>
<td>125.0 ± 1.0 µm</td>
<td>125.0 ± 2.0 µm</td>
<td>125.0 ± 1.0 µm</td>
<td>125.0 ± 1.0 µm</td>
<td>125.0 ± 1.0 µm</td>
</tr>
<tr>
<td>Numerical Aperture</td>
<td>0.12</td>
<td>0.275 ± 0.015</td>
<td>0.200 ± 0.015</td>
<td>0.200 ± 0.015</td>
<td>0.200 ± 0.015</td>
</tr>
<tr>
<td>Maximum Attenuation @ 850/1300 nm (dB/km)</td>
<td>N/A</td>
<td>3.5/1.0</td>
<td>3.5/1.5</td>
<td>3.0/1.0</td>
<td>3.0/1.0</td>
</tr>
<tr>
<td>Minimum Bandwidth @ 850/1300 nm (MHz•km)</td>
<td>N/A</td>
<td>200/500</td>
<td>500/500</td>
<td>2000/500</td>
<td>4700/500</td>
</tr>
<tr>
<td>100 Mb Transmission distance @ 850/1300 nm (m)</td>
<td>&gt; 5000 @ 1310 nm</td>
<td>300/2000</td>
<td>300/2000</td>
<td>300/2000</td>
<td>300/2000</td>
</tr>
<tr>
<td>1 GbE Transmission distance @ 850/1300 nm (m)</td>
<td>&gt; 5000 @ 1310 nm</td>
<td>300/600</td>
<td>550/550</td>
<td>1000/600</td>
<td>1040/600</td>
</tr>
<tr>
<td>10 GbE Transmission distance @ 850/1300 nm (m)</td>
<td>&gt; 10,000 @ 1310 nm</td>
<td>36/300</td>
<td>N/A</td>
<td>300/300</td>
<td>550/300</td>
</tr>
<tr>
<td>40/100 GbE Transmission distance @ 850 nm (m)</td>
<td>10k/40k @ 1310 nm</td>
<td>N/A</td>
<td>N/A</td>
<td>100</td>
<td>150</td>
</tr>
</tbody>
</table>

Ratings

**Flame Listing:** Engineering Testing Laboratories (ETL) or Underwriters Laboratories (UL) Type OFNP (Nonconductive Optical Fiber Plenum Cable) and c(ETL or UL) OFN-FT6 75C

**Operating Temperature:** -20°C to +75°C

**Storage Temperature:** -40°C to +85°C

**Maximum Loading:** Installation - 1335 N (300 lb) & Long Term - 400 N (90 lb)

**Minimum Bend Radius:** Installation 19.9 cm (7.8 in) & Long Term 13.3 cm (5.2 in)

**Compression (crush) Strength:** 440 N/cm per TIA/EIA FOTP-41.

**Impact:** 2 impacts at 5.88 N-m per TIA/EIA FOTP-25.

**Cable Flex:** 25 cycles per TIA/EIA FOTP-104.

**Proof Test:** 0.7 GPa (100 kpsi) per TIA/EIA FOTP-31

**Applications**

- IEEE 802.3ae 10GBASE-X (10 Gb/s)
- IEEE 802.3 1000BASE-SX/LX (1 Gb/s)
- Fiber Channel FC-PH (1.062 Gb/s)
- IEEE 802.3 10BASE-F (10 Mb/s)
- IEEE 802.3 FOIRL (10 Mb/s)
- FDDI (100 Mb/s)
- ATM (155 Mb/s, 622 Mb/s, 1.2/2.4 Gb/s)

**Standards**

- ISO/IEC 11801
- EN 50173
- Telcordia GR-409 & GR-20
- ICEA S-104-696
- ANSI/ICEA S-87-640
- ETL, UL
- OFNR/FT4, OFNP/FT6
- ANSI/TIA/EIA-568-B.3
### Indoor Cable

**Micro Cable**

Micro cable is available in 12-Fiber to 144-Fiber configurations. This example 144-Fiber Singlemode BI OFNP Micro Cable is composed of twelve sub units, aramid yarn, an aramid ripcord, and a PVC outer jacket.

Each sub-unit is sequentially numbered and consists of 12 colored glass fibers surrounded by aramid yarn with a PVC jacket 2.00 mm in diameter.

All component materials meet the EU RoHS and REACH Directive standards.

Standard surface print denotes construction, NEC rating and fiber type, and includes footage markers.

**Features**

- Meets the application requirement of National Electric Code (NEC) Article 770 and is OFNP-rated
- NFPA262 flame rating
- 12 bare fibers per subunit with a 144-fiber construction
- Ultra space-saving design
- 250μm color-coded bare fiber
- RoHS compliant

**Applications**

- Plenum
- Data Centers

**Specifications**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiber Count</td>
<td>144</td>
</tr>
<tr>
<td>Outer Jacket Material</td>
<td>Flame Retardant PVC</td>
</tr>
<tr>
<td>Sub Units</td>
<td>Flame Retardant PVC</td>
</tr>
<tr>
<td>Strength Member</td>
<td>Aramid Yarn</td>
</tr>
<tr>
<td>Nominal Outer Diameter (mm)</td>
<td>10.6</td>
</tr>
<tr>
<td>Weight (lbs/km)</td>
<td>250</td>
</tr>
<tr>
<td>Minimum Bend Radius, Installation (cm)</td>
<td>21.2</td>
</tr>
<tr>
<td>Minimum Bend Radius, Operation (cm)</td>
<td>10.6</td>
</tr>
<tr>
<td>Storage / Operating Temperature (°C)</td>
<td>-40 to +70 / 0 to +70</td>
</tr>
<tr>
<td>Fiber Type</td>
<td>SMF-28 Ultra</td>
</tr>
<tr>
<td>Core Size (μm)</td>
<td>9</td>
</tr>
<tr>
<td>Wavelength (nm)</td>
<td>1310 / 1550</td>
</tr>
<tr>
<td>Maximum Attenuation (dB/km)</td>
<td>0.5 / 0.4</td>
</tr>
</tbody>
</table>
**Riser or Plenum Rated**

Indoor/Outdoor Cable is composed of 2 to 24 colored tight buffers, water blocking aramid yarn, and a UV resistant black PVC outer jacket. All component materials meet the EU RoHS and REACH Directive standards.

Indoor/Outdoor Cable is UL Listed. OFNR/OFNP jackets are available. Standard surface print denotes construction, NEC rating, fiber type, and includes footage markers.

### Optical Characteristics

<table>
<thead>
<tr>
<th>Items</th>
<th>Singlemode</th>
<th>Multimode 62.5 µm</th>
<th>Multimode 50 µm</th>
<th>Multimode OM3 (50 µm)</th>
<th>Multimode OM4 (50 µm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wavelength</td>
<td>(1310/1550) nm</td>
<td>(850/1300) nm</td>
<td>(850/1300) nm</td>
<td>(850/1300) nm</td>
<td>(850/1300) nm</td>
</tr>
<tr>
<td>Max. Attenuation</td>
<td>(0.5/0.4) dB/km</td>
<td>(3.5/1.5) dB/km</td>
<td>(3.5/1.5) dB/km</td>
<td>(3.5/1.5) dB/km</td>
<td>(3.5/1.5) dB/km</td>
</tr>
<tr>
<td>Bandwidth (EMB) (High Performance)</td>
<td>N/A</td>
<td>220 MHz @850nm</td>
<td>850 MHz @850nm</td>
<td>2000 MHz @850nm</td>
<td>4700 MHz @850nm</td>
</tr>
<tr>
<td>Link Length (10Gb/ s)</td>
<td>N/A</td>
<td>N/A</td>
<td>150 meters</td>
<td>300 meters</td>
<td>550 meters</td>
</tr>
</tbody>
</table>

### Cable Characteristics

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiber Count</td>
<td>2, 4, 6, 8, 12, 24</td>
</tr>
<tr>
<td>Outer Jacket Material</td>
<td>Flame Retardant PVC</td>
</tr>
<tr>
<td>Strength Member</td>
<td>Aramid Yarn</td>
</tr>
<tr>
<td>Tight Buffer Material</td>
<td>Flame Retardant PVC</td>
</tr>
<tr>
<td>Tight Buffer Color</td>
<td>Available in 12 TIA/ EIA color standard</td>
</tr>
<tr>
<td>Nominal Outer Diameter of 2/4/6/8/12/24 fiber count (mm)</td>
<td>4.40 / 4.80 / 5.30 / 5.80 / 6.30 / 8.10</td>
</tr>
<tr>
<td>Weight (lbs/ km) of 2/4/6/8/12/24 fiber count - Riser</td>
<td>34 / 45 / 55 / 70 / 94 / 120</td>
</tr>
<tr>
<td>Weight (lbs/ km) of 2/4/6/8/12/24 fiber count - Plenum</td>
<td>40 / 52 / 64 / 87 / 115 / 140</td>
</tr>
<tr>
<td>Min Bend Radius, Install of 2/4/6/8/12/24 fiber count (cm)</td>
<td>6.6 / 7.2 / 7.95 / 8.7 / 9.45 / 12.15</td>
</tr>
<tr>
<td>Min Bend Radius, Operate of 2/4/6/8/12/24 fiber count (cm)</td>
<td>4.40 / 4.80 / 5.30 / 5.80 / 6.30 / 8.10</td>
</tr>
<tr>
<td>Application</td>
<td>Riser or Duct</td>
</tr>
<tr>
<td>Riser/Plenum Flame Rating</td>
<td>UL1666/ NFPA262</td>
</tr>
<tr>
<td>Storage/Operating Temperature</td>
<td>-40 °C to +70 °C</td>
</tr>
</tbody>
</table>
Indoor/Outdoor Cable

Riser Rated Central Tube

Features

Indoor/Outdoor Design
- Provides additional mechanical protection
- Can be installed using typical loose tube cable methods and hardware

Dry Water-Blocking Technology
- Permits rapid cable preparation and termination
- Water-blocking materials are easily removed

Flexible Buffer Tube
- Superior kink resistance
- Increased flexibility
- Facilitates route management in closure
- Eliminates need for closure transportation tubing

Available in Two Different Flame Ratings
- Riser rated design complies with UL 1666 and is OFNR and OFN-FT4 rated
- Low-Smoke, Zero-Halogen design complies with UL 1685 and is OFN-LS and OFN-FT1 rated

All-Dielectric Construction
- Great for low fiber count applications where armor is not permitted
- Easy access to cable core
- No metallic elements to bond or ground

Performance
- Tested in accordance with Telcordia GR-20, GR-409 and with relevant EIA/TIA-455 series FOTPs for fiber optic cables

Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynamic Bend Radius</td>
<td>20 x Cable OD</td>
</tr>
<tr>
<td>Static Bend Radius</td>
<td>10 x Cable OD</td>
</tr>
<tr>
<td>Installation Load</td>
<td>1800 N (400 lbf)</td>
</tr>
<tr>
<td>Residual Load Tensile Rating</td>
<td>540 N (120 lbf)</td>
</tr>
<tr>
<td>Operating Temperature Rating</td>
<td>-40 to +70 °C (-40 to +158 °F)</td>
</tr>
<tr>
<td>Installation Temperature Rating</td>
<td>-30 to +60 °C (-22 to +140 °F)</td>
</tr>
<tr>
<td>Storage/Shipping Temperature Rating</td>
<td>-40 to +75 °C (-40 to +167 °F)</td>
</tr>
<tr>
<td>Fiber Count</td>
<td>12</td>
</tr>
<tr>
<td>Buffer Tube O.D.</td>
<td>4.1 mm (0.16 in)</td>
</tr>
<tr>
<td>Cable O.D.</td>
<td>8.5 mm (0.34 in)</td>
</tr>
<tr>
<td>Cable Weight</td>
<td>68 kg/km (46 lbs/kft)</td>
</tr>
</tbody>
</table>
Non-Armored

Features

**Dry Water-Blocking Technology**
- Permits rapid cable preparation and termination
- Water-Blocking materials are easily removed

**Flexible Buffer Tubes**
- Increased flexibility and superior kink resistance
- Facilitates route management in closures
- Eliminates need for closure transportation tubes

**Medium Density Polyethylene Jacket**
- Low friction installation
- Excellent protection from environmental hazards

**Reverse Oscillated Lay Stranding Method**
- Facilitates access to fibers

**All-Dielectric Construction**
- No bonding or grounding required

**Performance**
- Meets or exceeds the requirements of Telcordia GR-20 and ICEA 640
- Tested in accordance with the relevant EIA/TIA-455 series FOTPs for fiber optic cables
- PE-90 compliant for applications that do not require mid-span tube storage

Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiber Count</td>
<td>2-24</td>
</tr>
<tr>
<td>Buffer Tube OD (mm)</td>
<td>2.65</td>
</tr>
<tr>
<td>Single Jacket Cable OD (mm / in)</td>
<td>10.8 / 0.43</td>
</tr>
<tr>
<td>Single Jacket Cable Weight (kg/km / lb/kft)</td>
<td>82 / 55</td>
</tr>
<tr>
<td>Single Jacket Max Length (m / ft)</td>
<td>12,800 / 41,984</td>
</tr>
<tr>
<td>Double Jacket Max Length (m / ft)</td>
<td>12,800 / 41,984</td>
</tr>
<tr>
<td>Dynamic Bend Radius</td>
<td>20 x Cable OD</td>
</tr>
<tr>
<td>Static Bend Radius</td>
<td>10 x Cable OD</td>
</tr>
<tr>
<td>Installation Tensile Rating (N / lbf)</td>
<td>2700 / 600</td>
</tr>
<tr>
<td>Residual Tensile Rating</td>
<td>800 / 200</td>
</tr>
<tr>
<td>Short Term / Long Term Crush Resistance (N/cm / lbf/in)</td>
<td>220/110 / 125/63</td>
</tr>
<tr>
<td>Operation Temp Rating (C)</td>
<td>-40 to +70</td>
</tr>
<tr>
<td>Storage/Shipping Temp Rating (C)</td>
<td>-40 to +75</td>
</tr>
</tbody>
</table>
### Armored - Central Tube

Economical armored protection for lower fiber counts, ideal for multi-purpose outdoor aerial and underground use near the network edge.

Armored cable has an efficient design with a single central loose tube. A better fit and cost-effective alternative for low fiber count designs, this Central Loose Tube cable provides easy cable entry and flexible routing for multi-purpose installation of up to 12 fibers.

### Features

#### Easy Cable Entry & Preparation
- Adhesive bond armor protects & improves mid-entry
- Ripcord speeds cable entry & outer jacket removal
- Proven water-blocking with dry core swellable binders

#### Flexible Routing and Termination
- Flexible buffer tubes and strength members
- Small diameter & lightweight extends installation lengths

#### Temperature Rating
- Installation: -22 to +140 °F (-30 to +60 °C)
- Operation: -40 to +158 °F (-40 to +70 °C)

### Cable Specifications

<table>
<thead>
<tr>
<th>Tube Construction</th>
<th>Fiber Count</th>
<th>Diameter (inches (mm))</th>
<th>Cable Weight (lb/kft)</th>
<th>Bend Radius Load inches (cm)</th>
<th>Bend Radius No Load inches (cm)</th>
<th>Maximum Installation Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gel-Free</td>
<td>2 to 12</td>
<td>0.38 (9.7)</td>
<td>63 (94)</td>
<td>8 (20)</td>
<td>6 (15)</td>
<td>600 lbf (2670 N)</td>
</tr>
</tbody>
</table>

### Fiber Information

<table>
<thead>
<tr>
<th>Fiber Type</th>
<th>Wavelength (nm)</th>
<th>Attenuation (dB/km)</th>
<th>Bandwidth (MHz km)</th>
<th>1 GbE Distance (meters)</th>
<th>10 GbE Distance (meters)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Singlemode</td>
<td>1310 / 1383 / 1550</td>
<td>0.35 / 0.35 / 0.25</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Singlemode Bend Insensitive</td>
<td>1310 / 1383 / 1550</td>
<td>0.35 / 0.35 / 0.25</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Multimode (62.5μm)</td>
<td>850/1300</td>
<td>3.5/1.0</td>
<td>200/500</td>
<td>300/550</td>
<td>33</td>
</tr>
<tr>
<td>Multimode (50μm)</td>
<td>850/1300</td>
<td>3.0/1.0</td>
<td>700/500</td>
<td>800/550</td>
<td>150</td>
</tr>
<tr>
<td>Multimode OM3 (50μm)</td>
<td>850/1300</td>
<td>3.0/1.0</td>
<td>1500/500</td>
<td>1000/550</td>
<td>300</td>
</tr>
<tr>
<td>Multimode OM4 (50μm)</td>
<td>850/1300</td>
<td>3.0/1.0</td>
<td>3500/500</td>
<td>1100/550</td>
<td>550</td>
</tr>
</tbody>
</table>
### Outdoor Cable

**Resources**

**Armored - 12 Fiber Loose Tube**

![Diagram of cable components]

**Specifications**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Attenuation (G657A1) @ 1310 nm</strong></td>
<td>≤ 0.36 dB/km</td>
</tr>
<tr>
<td><strong>Attenuation (G657A1) @ 1550 nm</strong></td>
<td>≤ 0.22 dB/km</td>
</tr>
<tr>
<td><strong>Long Term Tensile Strength (IEC60794-1)</strong></td>
<td>300 N</td>
</tr>
<tr>
<td><strong>Short Term Tensile Strength (IEC60794-1)</strong></td>
<td>1000 N</td>
</tr>
<tr>
<td><strong>Long Term Crush Resistance (IEC60794-1)</strong></td>
<td>300 N/100mm</td>
</tr>
<tr>
<td><strong>Short Term Crush Resistance (IEC60794-1)</strong></td>
<td>1000 N/100mm</td>
</tr>
<tr>
<td><strong>Fiber Color</strong></td>
<td>Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua</td>
</tr>
<tr>
<td><strong>PBT Tube Color</strong></td>
<td>Blue</td>
</tr>
<tr>
<td><strong>Ripcord Count</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-40C to +70C</td>
</tr>
<tr>
<td><strong>Storage Temperature</strong></td>
<td>-40C to +70C</td>
</tr>
<tr>
<td><strong>Static Bending Radius</strong></td>
<td>10×Diameter</td>
</tr>
<tr>
<td><strong>Dynamic Bending Radius</strong></td>
<td>20×Diameter</td>
</tr>
<tr>
<td><strong>Cable Diameter</strong></td>
<td>12.0 mm</td>
</tr>
<tr>
<td><strong>Cable Weight</strong></td>
<td>125 kg/km</td>
</tr>
<tr>
<td><strong>Sheath Thickness</strong></td>
<td>1.5 mm</td>
</tr>
</tbody>
</table>

ARIA TECHNOLOGIES, INC.

Fiber Optic Connectivity™

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sales@ariatech.com
www.ariatech.com
### Outdoor Cable

#### Ribbon Armored Central Tube

![Diagram of Ribbon Armored Central Tube]

#### Features

**Compact Design**
- Efficient packaging of fiber
- Lightweight and easy to handle during installation

**Easily Removable Ribbon Matrix**
- Allows for ease of stripping and fiber breakout
- Improves mid-span strippability

**Precision Ribbon Geometry**
- Time and labor savings during fiber splicing

**Flexible Buffer Tube**
- Superior kink resistance
- Increased flexibility
- Facilitates route management in closures

**Dry Water-Blocking Technology**
- Buffer tube and core are completely dry—no gel
- Permits rapid cable preparation and termination
- Water-blocking materials are easily removed

**Corrugated Steel Armor**
- Provides additional mechanical protection
- Special coating reduces time and effort to remove jacket

**Performance**
- Meets or exceeds the requirements of Telcordia GR-20 & ICEA 640 and is tested in accordance with relevant EIA/TIA-455 series FOTPs for fiber cables

#### Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynamic Bend Radius</td>
<td>20 x Cable OD</td>
</tr>
<tr>
<td>Static Bend Radius</td>
<td>10 x Cable OD</td>
</tr>
<tr>
<td>Installation Load Tensile Rating</td>
<td>2700 N (700 lbf)</td>
</tr>
<tr>
<td>Residual Load Tensile Rating</td>
<td>800 N (180 lbf)</td>
</tr>
<tr>
<td>Crush Resistance Short Term</td>
<td>220 N/cm (125 lbf/in)</td>
</tr>
<tr>
<td>Crush Resistance Long Term</td>
<td>110 N/cm (63 lbf/in)</td>
</tr>
<tr>
<td>Operating Temperature Rating</td>
<td>-40 to +70 °C</td>
</tr>
<tr>
<td>Installation Temperature Rating</td>
<td>-30 to +60 °C</td>
</tr>
<tr>
<td>Storage/Shipping Temperature Rating</td>
<td>-40 to +75 °C</td>
</tr>
<tr>
<td>Fiber Count</td>
<td>12-48</td>
</tr>
<tr>
<td>Ribbon Count</td>
<td>1-4</td>
</tr>
<tr>
<td>Buffer Tube O.D.</td>
<td>6.2 mm (0.24 in)</td>
</tr>
<tr>
<td>Cable O.D.</td>
<td>12.5 mm (0.50 in)</td>
</tr>
<tr>
<td>Cable Weight</td>
<td>152 kg/km (102 lbs/kft)</td>
</tr>
</tbody>
</table>
Flat Drop Cable

Features

Easy Access Design
- Jacket can be easily opened with a knife and the included ripcords
- Buffer tube is easily separated from the jacket and strength members

All-Dielectric Messengers
- No bonding or grounding required
- Flexible and kink resistant

Dry Water-Blocking Technology
- Permits rapid cable preparation and termination
- Water-blocking materials are easily removed

Versatile Design
- Small cross-section and high strength allow good aerial performance
- Can be pushed or pulled through duct
- Highly crush-resistant

Dual Strength Member Design
- More flexible than a single, all-dielectric rod of the same strength
- Easier to handle and coil than other all-dielectric Figure-8 designs
- A great alternative where steel strength members are not permissible

Medium Density Polyethylene Jacket
- Low friction installation
- Excellent protection from environmental hazards

Sheath Markings
- Provides positive identification and length verification

Performance
- RDUP listed (tested in accordance with PE-90)

Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynamic Bend Radius</td>
<td>150 mm (5.9&quot;)</td>
</tr>
<tr>
<td>Static Bend Radius</td>
<td>100 mm (3.9&quot;)</td>
</tr>
<tr>
<td>Installation Load Tensile Rating</td>
<td>1336 N (300 lbf)</td>
</tr>
<tr>
<td>NESC Light Load District Span Rating</td>
<td>122 mm (400&quot;)</td>
</tr>
<tr>
<td>NESC Medium Load District Span Rating</td>
<td>76 mm (250&quot;)</td>
</tr>
<tr>
<td>NESC Heavy Load District Span Rating</td>
<td>46 mm (150&quot;)</td>
</tr>
<tr>
<td>Operating Temperature Rating</td>
<td>-40 to +70 °C (-40 to +158 °F)</td>
</tr>
<tr>
<td>Installation Temperature Rating</td>
<td>-30 to +60 °C (-22 to +140 °F)</td>
</tr>
<tr>
<td>Storage/Shipping Temperature Rating</td>
<td>-40 to +75 °C (-40 to +167 °F)</td>
</tr>
<tr>
<td>Buffer Tube O.D.</td>
<td>2.8 mm (0.11 in)</td>
</tr>
<tr>
<td>Cable Thickness</td>
<td>5.0 mm (0.20 in)</td>
</tr>
<tr>
<td>Cable Width</td>
<td>8.5 mm (0.33 in)</td>
</tr>
<tr>
<td>Cable Weight</td>
<td>39 kg/km (26 lbs/kft)</td>
</tr>
<tr>
<td>Max. Cable Length</td>
<td>25,000 m (82,000 ft)</td>
</tr>
</tbody>
</table>
Connector Types

SC - Singlemode, Simplex
SC - Singlemode, Duplex
SC - Singlemode, Uniboot
SC - Singlemode, 900 μm
SC/APC - Singlemode, Simplex
SC/APC - Singlemode, Duplex
SC/APC - Singlemode, 900 μm
SC - Multimode, Simplex
SC - Multimode, Duplex
SC - Multimode, 900 μm
LC - Singlemode, Simplex
LC - Singlemode, Duplex
LC - Singlemode, Uniboot
LC - SM, 19mm Boot, Simplex
LC - Singlemode, 900 μm
LC/APC - Singlemode, Simplex
LC/APC - Singlemode, Duplex
LC/APC - Singlemode, 900 μm
LC - Multimode, Simplex
LC - Multimode, Duplex
LC - Multimode, 900 μm
ST - Singlemode
ST - Singlemode, 900 μm
ST - Multimode
ST - Multimode, 900 μm
FC - Singlemode
FC - Singlemode, 900 μm
FC - Multimode
FC - Multimode, 900 μm
MTP-(M), Singlemode
MTP-(F), Singlemode
MTP-(M), Multimode
MTP-(F), Multimode
E2000 APC
MTRJ-(M), Multimode
MTRJ-(F), Multimode

Resources

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