ARIADROP: Fiber to the MDU (FTTM)
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Overview
ARIATechnologies ARIADROP™ System is designed to provide both labor and material savings to service providers deploying fiber to multiple dwelling unit (MDU) buildings.

Utilizing pre-terminated solutions, ARIADROP™ products eliminate or minimize splicing and testing ensuring high quality networks throughout the MDU building.

ARIA Technologies ARIADROP™ System is the ideal plug and play solution for delivering the fastest, most reliable service for MDUs and is available in configurations to meet the unique requirements of each MDU Design.

Made to order pre-term lengths accommodate varying cable pathways and distances between distribution points.

Pre-connectorized solutions assist with meeting demanding installation schedules.

Features and Benefits
- Pre-terminated Enclosures
  - Eliminate splicing or field termination reducing labor costs
  - Ensure a higher quality network
  - Speed up deployment times and help meet schedules
- Spool vs. Reel System
  - No damage from reel “choke” mechanisms
- Compact Designs
  - Minimal wall space required
- Quality
  - Products 3rd party tested to Telcordia GR326, 1209, 1221

Products
- ARIA Splitter Cassettes
- ARIA POE (Point of Entry) Building Entrance Cabinet
- ARIA Small MDU Splitter Panel Building Entrance Cabinet
- ARIA Tri-Panel Pre-Terminated Riser Distribution Panel
- ARIA Jumpers (Patch Cords)
ARIA Technologies ARIADROP™ system enclosures can be supplied with Stubbed or Pigtailed Tri-Panel Distribution Panels which would be routed down the riser or cable pathways and “home run” down to the Building Entrance Panel at the Point of Entry (POE) and spliced to the OSP Backbone or Trunk Cable entering from the street or manhole.

To further speed up deployment, these Tri-Panel Distribution Panels can be pre-loaded with cables connectorized at both ends for routing down to the Building Entrance Panel.

Building Entrance Panels can be preloaded with Optical PON Splitters to further speed deployment and meet deadlines for installation.
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Optical PON Splitters

2U LGX Cassette with One 1x32 Splitter

One 1x32 PLC Splitter
LC/APC Ports (Green) (UPC Available)
Loaded into a 2U LGX Cassette
Black powdercoated aluminum case

Features
Low Insertion Loss
High Isolation
Low PDL
Compact Design
Good Channel-to-channel Uniformity
Wide Operating Wavelength
High Reliability and Stability

Applications
FTTH/FTTM Systems
PON Network
CATV Links
Communication Equipment

Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Wavelength (nm)</td>
<td>1260~1650</td>
</tr>
<tr>
<td>Insertion Loss (dB)</td>
<td>17.2</td>
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<tr>
<td>Loss Uniformity (dB)</td>
<td>1.5</td>
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<tr>
<td>Polarization Dependent Loss (PDL) (dB)</td>
<td>0.3</td>
</tr>
<tr>
<td>Return Loss (dB)</td>
<td>55</td>
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<tr>
<td>Directivity (dB)</td>
<td>55</td>
</tr>
<tr>
<td>Wavelength Dependent Loss (dB)</td>
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<td>Operating Temperature (°F)</td>
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</tr>
<tr>
<td>Storage Temperature (°F)</td>
<td>-40--+85</td>
</tr>
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</table>

Compliance
Telcordia GR-1209-CORE
Telcordia GR-1221-CORE
RoHS
ARIADROP: Fiber to the MDU (FTTM)
Optical PON Splitters

Dimensions

129 mm
100 mm
58 mm

Part Number

PON-1X32-

1 Adapter Output Type
LCU = LC/UPC Singlemode
LCA = LC/APC Singlemode

2 Adapter Input Type
BK = Bulkhead adapter in front
PG = fiber pigtail in rear (for splicing)
AWM Point of Entry (POE)

ARIA Technologies AWM Point of Entry (POE) Building Entrance Cabinets provide an efficient point of entry in the MDU for splicing OSP Cable to Distribution Riser Cables.

The ARIA AWM Point of Entry (POE) Building Entrance Cabinet holds up to fifteen 1x32 splitter cassettes and accommodates up to 480 output fibers.

Enclosure dimensions: 35” x 24” x 12” (HxWxD).

Ample cable slack is provided via the radius guides at each panel location on both the right and left sides. Additionally, cables are managed at every panel.

A platform for mounting splice trays is provided at the bottom for easy access.

Compression fittings and cable brackets are supplied standard to minimize the ordering of parts.
1x32 Splitter Cassette

Part Number

AWM-POE- 1 1 2 2 2 3 3

<table>
<thead>
<tr>
<th>Quantity of 1x32 Splitter Cassettes</th>
<th>Adapter Type</th>
<th>Splitter Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>01 = One 1x32 Splitter Cassette</td>
<td>SCU = SC/UPC Singlemode</td>
<td>BK = bulkhead adapter in rear</td>
</tr>
<tr>
<td>02 = Two 1x32 Splitter Cassettes</td>
<td>SCA = SC/APC Singlemode</td>
<td>PG = fiber pigtail in rear (for splicing)</td>
</tr>
<tr>
<td>03 = Three 1x32 Splitter Cassettes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>04 = Four 1x32 Splitter Cassettes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>05 = Five 1x32 Splitter Cassettes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>06 = Six 1x32 Splitter Cassettes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>07 = Seven 1x32 Splitter Cassettes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>08 = Eight 1x32 Splitter Cassettes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>09 = Nine 1x32 Splitter Cassettes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 = Ten 1x32 Splitter Cassettes</td>
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<td></td>
</tr>
<tr>
<td>11 = Eleven 1x32 Splitter Cassettes</td>
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<tr>
<td>12 = Twelve 1x32 Splitter Cassettes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13 = Thirteen 1x32 Splitter Cassettes</td>
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<td></td>
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<tr>
<td>14 = Fourteen 1x32 Splitter Cassettes</td>
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</tr>
<tr>
<td>15 = Fifteen 1x32 Splitter Cassettes</td>
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</table>
Small MDU Splitter Panel

ARIA Technologies Small MDU Splitter Panels provide a distribution point where OSP or Distribution cables can be spliced to preloaded PON Splitters housed inside the unit.

The panel is wall mounted within the MDU and supplied fully tested and ready for deployment.

Panel includes removable grounding or strain relief lugs.

The lid is pad-lockable.

Contact the sales department for other configurations.

Capacity

Six various sized cable entry holes and their associated compression fittings are provided to enable multiple locations for incoming OSP or Distribution Cable and Patchcords.

Capacity: 24 fiber SC with 1 Splice Tray or 32 fiber LC with 2 Splice Trays

One splice tray is pre-loaded with up to three 1x8 splitters.

Part Number

The part number is formatted as SMDU-1-2-3-3-3.

1 Quantity of 1x8 Splitters
1 = One 1x8 Splitter (SC/LC)
2 = Two 1x8 Splitters (SC/LC)
3 = Three 1x8 Splitters (SC/LC)
4 = Four 1x8 Splitters (LC)

2 Number of Splice Trays
1 = 1 Splice Tray (SC/LC)
2 = 2 Splice Trays (LC)

3 Splitter Output Type
SCU = SC/UPC Singlemode
SCA = SC/APC Singlemode
LCU = LC/UPC Singlemode
LCA = LC/APC Singlemode
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Distribution Panels

Tri-Panel Pre-Terminated Riser Distribution Panels

ARIA Tri-Panel Pre-terminated Riser Distribution Panels are deployed typically on every 3-4 floors of the MDU.

Three sizes are available accommodating 24, 48, and 72 SC connectors or 48, 96, and 144 LC connectors per Panel.

Tri- Panels can be preloaded at the factory with a pigtail or stub cable for splicing at the Building Entrance Panel, or connectorized at both ends with SC or LC connectors.

Double-ended panels are supplied with a protective sock over the connectors as well as a pulling eye for easy routing to the POE.

The Interlocking Plenum (“Cable-in-Conduit”) stub cable type option can further reduce deployment time and cost by decreasing the labor to just one placement of cable and conduit.

TRI-2X
Dimensions: 7”x12”x3.75” (HxWxD)
Capacity: Holds 2 adapter plates
6-Pack duplex SC or LC: 24 fibers
6-Pack quad LC: 48 fibers
Cable Entry/Exit Holes: 2 patch side and 2 splice side

TRI-4X
Dimensions: 7”x12”x7.6” (HxWxD)
Capacity: Holds 4 adapter plates
6-Pack duplex SC or LC: 48 fibers
6-Pack quad LC: 96 fibers
Cable Entry/Exit Holes: 2 patch side and 2 splice side

TRI-6X
Dimensions: 12”x12”x6.6” (HxWxD)
Capacity: Holds 6 adapter plates
6-Pack duplex SC or LC: 72 fibers
6-Pack quad LC: 144 fibers
Cable Entry/Exit Holes: 2 patch side and 2 splice side
### Tri-Panel Pre-Terminated Riser Distribution Panels

- Optional lock for patch compartment and separate lock for splice compartment available (Part Number: LOCK252)
- Single door design requires less wall space
- Angled adapter plate mounting surface makes it easy to access the connectors
- All metal construction offered in white or black
- Sizable splicing compartment provides ample room for pigtail storage and protection

### Part Number

<table>
<thead>
<tr>
<th>1</th>
<th>Enclosure Size</th>
<th>5</th>
<th>Fiber Type</th>
<th>7</th>
<th>Stub Connectors</th>
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<tr>
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<td></td>
<td>Singlemode</td>
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<td>000 = No Connectors</td>
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<td>4X = TRI-4X</td>
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<td>S = SMF-28e+</td>
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<td>B = SMF Bend</td>
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<td>SCU = SC/UPC</td>
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<td></td>
<td></td>
<td></td>
<td>Insensitive</td>
<td></td>
<td>SCA = SC/APC</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>G.657 A/B</td>
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<td>LCU = LC/UPC</td>
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<table>
<thead>
<tr>
<th>2</th>
<th>Adapter Plate Type</th>
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<th>Stub Cable Type</th>
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<th>Stub Length</th>
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<tr>
<td></td>
<td>06 = 6 Port (SC)</td>
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<td>DR = Distribution Riser Rated</td>
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<td>08 = 8 Port (SC)</td>
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<td>DP = Distribution Style Plenum Rated</td>
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<td>12 = 12 Port (SC/LC)</td>
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<td>AP = Interlocking Armor Plenum Rated</td>
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<td></td>
<td>24 = 24 Port (LC)</td>
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<td>IR = Indoor/Outdoor Riser Rated</td>
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<table>
<thead>
<tr>
<th>3</th>
<th>Adapter Plate Quantity</th>
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<th>Adapter Plate Type</th>
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<th>Enclosure Color</th>
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<tr>
<td></td>
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<td>06 = 6 Port (SC)</td>
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<td>B = Black</td>
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<td>2 = 2 Plates</td>
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<td>08 = 8 Port (SC)</td>
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<td>W = White</td>
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<tr>
<td></td>
<td>3 = 3 Plates</td>
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<td>12 = 12 Port (SC/LC)</td>
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<td></td>
<td>4 = 4 Plates</td>
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<td>24 = 24 Port (LC)</td>
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<tr>
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<td>5 = 5 Plates</td>
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<td></td>
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</tr>
<tr>
<td></td>
<td>6 = 6 Plates</td>
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</tr>
</tbody>
</table>

### Adapter Type

- Singlemode
- SCU = SC/UPC
- SCA = SC/APC
- LCU = LC/UPC
- LCA = LC/APC
ARIA Technologies offers a complete line of simplex and duplex jumpers in singlemode and multimode configurations with Corning, Draka, and OFS fiber that is manufactured to Telcordia GR326-CORE Issue 4 specifications.

Custom colors are available for easy identification in CATV headends, Telco COs, or Data Centers.

### Features

- Free of surface defects with a proper radius of curvature, fiber height, and apex offset.
- Low insertion loss: 0.4dB max and <0.2dB typical.
- Low return loss: <-55dB for UPC and <-65dB for APC.
- Easy to remove buffer coating.
- Meets or exceeds all industry standards for singlemode fiber performance.

50 degree angled boots are available.

### Part Number

<table>
<thead>
<tr>
<th>RA-</th>
<th>1</th>
<th>2</th>
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<th>3</th>
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<th>5</th>
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<th>5</th>
<th>6</th>
<th>6</th>
<th>6</th>
<th>6</th>
</tr>
</thead>
</table>
| 1   | Cable Size | 1 = 1.6 mm  
| 2   | Cable Construction | 01 = Simplex  
| 3   | Fiber Type | Singlemode  
|     |     | S = SMF-28e+  
|     |     | B = SMF Bend Insensitive G.657 A/B  
|     |     | Multimode  
|     |     | 1 = 62.5/125μm  
|     |     | 2 = 50/125μm  
|     |     | 3 = 50/125μm OM3  
|     |     | 4 = 50/125μm OM4  
| 4   | Connector Type End 1 | Singlemode  
|     |     | SCU = SC/UPC  
|     |     | SCA = SC/APC  
|     |     | LCU = LC/UPC  
|     |     | LCA = LC/APC  
|     |     | LU5 = LC/UPC with 50° boot  
|     |     | FCU = FC/UPC  
|     |     | FCA = FC/APC  
|     |     | STU = ST/UPC  
|     | Multimode  
|     | SCM = SC  
|     | LCM = LC  
|     | LM5 = LC with 50° boot  
|     | FCM = FC  
|     | STM = ST  
|     | 000 = Pigtail (No Connector)  
| 5   | Connector Type End 2 | Singlemode  
|     |     | SCU = SC/UPC  
|     |     | SCA = SC/APC  
|     |     | LCU = LC/UPC  
|     |     | LCA = LC/APC  
|     |     | LU5 = LC/UPC with 50° boot  
|     |     | FCU = FC/UPC  
|     |     | FCA = FC/APC  
|     |     | STU = ST/UPC  
|     | Multimode  
|     | SCM = SC  
|     | LCM = LC  
|     | LM5 = LC with 50° boot  
|     | FCM = FC  
|     | STM = ST  
| 6   | Length | XXXF = Length in Feet  
|     | XXXM = Length in Meters |