Patch Panels
Amphenol 948 Series Patch Panels provide a convenient point for patching and storing fiber optic cables. A full range of products are available for termination of backbone cables and horizontal cables at cross-connects and for interconnection between fiber optic distribution cables and equipment jumper cables.

Coupler Panels
Amphenol 948 Series Rack Mount Coupler Panels incorporate fiber optic couplers (optical splitters and wavelength division multiplexers) at the fiber distribution frame. These panels are used in fiber optic networks to increase system capacity.

Storage Panels
Amphenol 948 Series Rack Mount Storage panels provide ample and organized slack storage of fiber optic cables. These panels reduce the concerns involved in maintaining and upgrading the network.

Splice Panels
Amphenol 948 Series Splice Panels are rack mounted panels which provide a convenient point for on-rack storing and protecting of fiber optic splices. These panels are typically used at building entrances for transition splicing between the outdoor cables and indoor pigtails. They are typically used in conjunction with the 948 Series Patch Panel enclosures.

Distribution Panels
Amphenol 948 Series Rack and Wall Mount Distribution Panels combine all the features of a patch panel and a splice panel into one enclosure. They provide a protective area for patching, splicing and storing fiber optic cables. Distribution panels are typically used at building entrances, telecom closets, customer premise applications, or in equipment rooms for termination of interbuilding backbone cables.

Features
- Panels requiring adapters are pre-loaded with Amphenol’s SC, ST or FC adapters to reduce labor costs during installation.
- Panels can be pre-loaded with Amphenol pigtail cable assemblies to further reduce labor costs during field installation.
- A single part number is used to specify semi-loaded or fully loaded enclosures to simplify the ordering process.
- Rack mount panels have removable doors for increased access during installation and maintenance.
- Panels provide ample room for storage of fiber slack, while maintaining bend radius protection for the stored fibers.
- All enclosures include mounting hardware, installation instructions, laser warning labels, cable ties, and cable routing designation cards.

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<th>Page No.</th>
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</tr>
</tbody>
</table>
The applications for Amphenol’s Fiber Management System range from small fiber counts to very large fiber counts which include multiple rows of network bays. Our complete system can fulfill the many requirements found in headends, building entrances, equipment rooms, telecommunications closets and customer premise applications. All of our network bays can be fully equipped with panels and pre-terminated cables ready for installation. Full integration of our splitters and WDM technologies can further enhance your network.

Amphenol’s Fiber Management System can be utilized for both interconnect and cross-connect applications. Both configurations route the transmission from point A to point B, but they have some very distinct differences.

**INTERCONNECT** configurations connect the OSP fibers directly to the equipment patch cords, via a patch enclosure. This configuration yields a lower installation cost, but does not provide maintenance and upgrade flexibility, especially in high fiber count applications.

**CROSS-CONNECT** configurations connect the OSP fibers and equipment patch cords to the rear of the patch enclosure. Additional patch cords are then used (on the front of the patch enclosure) to connect each OSP fiber port to the equipment patch cord port. Although this configuration requires additional installation costs, it is by far the more popular configuration. The cross-connect architecture provides greater flexibility for maintenance and upgrades.
Description
Amphenol’s 948 Series Wall Mount Patch Panels provide an excellent enclosure for patching and storing fiber optic terminations. They are available in a variety of sizes to accommodate from 12 to 72 fibers.

The Wall Mount Patch Panel is designed to be compact as well as provide ample fiber optic cable routing, organization, and storage. The panels come equipped with a cam lock in the installer side (large door) of the panel, allowing unrestricted access to the patching side. A second factory-installed cam lock is available to lock both areas of the panel.

Wall Mount Patch Panels are used in backbone, intermediate and horizontal cross-connects, equipment rooms, building entrances, telecommunications closets, computer rooms and customer premise applications.

Features
• Multiple cable entrance ports with rubber grommets
• Cam lock restricts access to main compartment (second lock optional)
• Ample storage slack, maintaining a 1.5” minimum bend radius
• Mounts on 16” centers (standard stud)
• Removable doors provide increased enclosure access
• Sturdy 16 gauge steel construction with a durable beige powder coat finish
• SC, FC, or ST adapters pre-installed
• Variety of pre-terminated cable assemblies available pre-installed (optional)
• Single part number specifies panel size, adapters, and pigtailed

Products
• 12, 24, 48, or 72 fiber capacity Wall Mount Patch Panels
Fiber Capacity
1 = 12  
2 = 24  
4 = 48  
6 = 72

Connector/Adaptor Style
A = S/M SC (ceramic)  
B = S/M SC Duplex (ceramic)  
C = S/M FC Flange (ceramic)  
D = S/M FC D-Hole (ceramic)  
E = S/M FC D-Hole (angle ceramic)  
F = S/M ST metal body (ceramic)  
G = M/M SC (metal)  
H = M/M SC Duplex (metal)  
J = M/M FC Flange (metal)  
K = M/M FC D-Hole (metal)  
L = M/M ST metal body (metal)  
Q = S/M SC (angle ceramic)  
T = S/M ST polymer body (ceramic)

Pigtails
0 = No Pigtails  
1 = S/M Super Polish  
2 = S/M Ultra Polish  
3 = S/M Angle Polish  
4 = M/M 50/125 Fiber  
5 = M/M 62.5/125 Fiber  
6 = M/M 100/140 Fiber

Cable Type
A = None  
C = 3 mm Jacketed Pigtail  
D = 12 Fiber (No Fiber Sub-Groups)  
E = 24 Fiber (6 Fiber Sub-Groups)  
F = 48 Fiber (12 Fiber Sub-Groups)  
G = 72 Fiber (12 Fiber Sub-Groups)

Cable Length
Specify in meters  
(e.g. 05 = 5 meters)

Fiber Capacity Dimensions
<table>
<thead>
<tr>
<th>Fiber Capacity</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>15.2&quot;W x 11.3&quot;H x 3.2&quot;D</td>
</tr>
<tr>
<td>24</td>
<td>18.5&quot;W x 17.2&quot;H x 3.2&quot;D</td>
</tr>
<tr>
<td>48</td>
<td>18.5&quot;W x 17.2&quot;H x 6.2&quot;D</td>
</tr>
<tr>
<td>72</td>
<td>18.5&quot;W x 17.2&quot;H x 6.2&quot;D</td>
</tr>
</tbody>
</table>
Description
Amphenol’s 948 Series Wall Mount Distribution Panels provide an excellent enclosure for patching, splicing and storing fiber optic terminations. They are available in a variety of sizes to accommodate from 12 to 72 fibers.

The Wall Mount Distribution Panel is designed to be compact as well as provide ample fiber optic cable routing, organization, and storage. The panels come equipped with a cam lock in the installer side (large door) of the panel, allowing unrestricted access to the patching side. A second factory-installed cam lock is available to lock both areas of the panel. Splice trays are also included with each enclosure.

Wall Mount Distribution Panels are used in backbone intermediate and horizontal cross-connects, equipment rooms, building entrances, telecommunications closets, computer rooms and customer premise applications.

Products
• 12, 24, 48, or 72 fiber capacity Wall Mount Distribution Panels

Features
• Multiple cable entrance ports with rubber grommets
• Cam lock restricts access to main compartment (second lock optional)
• Ample storage slack, maintaining a 1.5” minimum bend radius
• Mounts on 16” centers (standard stud)
• Removable doors provide increased enclosure access
• Sturdy 16 gauge steel construction with a durable beige powder coat finish
• SC, FC, or ST adapters pre-installed
• Splice trays with optional fusion, fusion with heat shrink or mechanical splice pads
• Variety of pre-terminated cable assemblies available pre-installed (optional)
• Single part number specifies panel size, adapters, splice trays and pigtailed
Connector/Adapter Style

A = S/M SC (ceramic)
B = S/M SC Duplex (ceramic)
C = S/M FC Flange (ceramic)
D = S/M FC D-Hole (ceramic)
E = S/M FC D-Hole (angle ceramic)
F = S/M ST metal body (ceramic)
G = M/M SC (metal)
H = M/M SC Duplex (metal)
J = M/M FC Flange (metal)
K = M/M FC D-Hole (metal)
L = M/M ST metal body (metal)
Q = S/M SC (angle ceramic)
T = S/M ST polymer body (ceramic)

Fiber Capacity

1 = 12
2 = 24
4 = 48
6 = 72

Pigtails

0 = No Pigtails
1 = S/M Super Polish
2 = S/M Ultra Polish
3 = S/M Angle Polish
4 = M/M 50/125 Fiber
5 = M/M 62.5/125 Fiber
6 = M/M 100/140 Fiber

Cable Type

A = None
B = 900µm Buffered Pigtail
C = 3 mm Jacketed Pigtail
D = 12 Fiber (No Fiber Sub-Group)
K = 900µm Jacketed Pigtail

Splice Pad

1 = Fusion Splice
2 = Fusion Splice w/Heat Shrink
3 = Mechanical

Cable Length

Specify in meters
(eg. 05 = 5 meters)

Fiber Capacity Dimensions

<table>
<thead>
<tr>
<th>Fiber Capacity</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>15.2”W x 11.3”H x 3.2”D</td>
</tr>
<tr>
<td>24</td>
<td>18.5”W x 17.2”H x 3.2”D</td>
</tr>
<tr>
<td>48</td>
<td>18.5”W x 17.2”H x 6.2”D</td>
</tr>
<tr>
<td>72</td>
<td>18.5”W x 17.2”H x 6.2”D</td>
</tr>
</tbody>
</table>
Description
Amphenol’s 948 Series Rack Mount Patch Panels provide a convenient location for patching single mode or multimode fiber optic cables from the cable termination point to the lightwave equipment. They are available in a variety of sizes to accommodate from 24 to 96 fibers.

The Rack Mount Patch Panels can be used in both cross-connect and interconnect applications. Pre-terminated multi-channel fiber optic pigtails are excellent for reducing installation costs and installer handling. The patch panel pigtail can be quickly and easily routed to the splicing location, eliminating the need for performing field terminations.

Rack Mount Patch Panels are used in backbone intermediate and horizontal cross-connects, equipment rooms, building entrances, headends, central offices and computer rooms.

Products
• 24, 48, 72 or 96 fiber capacity

Rack Mount Patch Panels

Features
• Smoked polycarbonate front door exposes designation card
• Cable management organizers located in rear of the enclosure
• Mounts on 19” or 23” racks (reversible brackets)
• Removable doors provide increased enclosure access
• Sturdy 16 gauge steel construction with a durable beige powder coat finish
• Enhanced cable routing brackets available (optional)
• SC, FC, or ST adapters pre-installed
• Variety of pre-terminated cable assemblies available pre-installed (optional)
• Single part number specifies panel size, adapters type, and pigtails
### Fiber Capacity

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>17.3&quot;W x 5.3&quot;H x 11.9&quot;D</td>
</tr>
<tr>
<td>48</td>
<td>17.3&quot;W x 6.8&quot;H x 11.9&quot;D</td>
</tr>
<tr>
<td>72</td>
<td>17.3&quot;W x 6.8&quot;H x 11.9&quot;D</td>
</tr>
<tr>
<td>96</td>
<td>17.3&quot;W x 10.8&quot;H x 11.9&quot;D</td>
</tr>
</tbody>
</table>

### Connector/Adapter Style

- **A** = S/M SC (ceramic)
- **B** = S/M SC Duplex (ceramic)
- **C** = S/M FC Flange (ceramic)
- **D** = S/M FC D-Hole (ceramic)
- **E** = S/M FC D-Hole (angle ceramic)
- **F** = S/M ST metal body (ceramic)
- **G** = M/M SC (metal)
- **H** = M/M SC Duplex (metal)
- **J** = M/M FC Flange (metal)
- **K** = M/M FC D-Hole (metal)
- **L** = M/M ST metal body (metal)
- **Q** = S/M SC (angle ceramic)
- **T** = S/M ST polymer body (ceramic)

### Pigtails

- **0** = No Pigtails
- **1** = S/M Super Polish
- **2** = S/M Ultra Polish
- **3** = S/M Angle Polish
- **4** = M/M 50/125 Fiber
- **5** = M/M 62.5/125 Fiber
- **6** = M/M 100/140 Fiber

### Cable Type

- **A** = None
- **C** = 3 mm Jacketed Pigtails
- **D** = 12 Fiber (No Fiber Sub-Groups)
- **E** = 24 Fiber (6 Fiber Sub-Groups)
- **F** = 48 Fiber (12 Fiber Sub-Groups)
- **G** = 72 Fiber (12 Fiber Sub-Groups)
- **H** = 96 Fiber (12 Fiber Sub-Groups)

### Cable Length

Specify in meters (e.g., 05 = 5 meters)
Description
Amphenol's 948 Series Rack Mount Splice Panels provide an on-rack splicing point for the OSP cable. They are available in two or three drawer designs to accommodate up to 144 fibers.

The Rack Mount Splice Panel incorporates splicing within the fiber optic network bays. These enclosures are ideal for splicing a pre-terminated patch panel pigtail to the OSP cable. The enclosures provide ample fiber storage within a removable drawer. Each drawer can accommodate up to two splice trays for a total of 48 fusion splices.

Rack Mount Splice Panels are used in backbone intermediate and horizontal cross-connects, equipment rooms, building entrances, headends, central offices and computer rooms.

Products
- 48, 72, 96 or 144 fiber capacity Rack Mount Distribution Panels
- Two or three drawer designs

Features
- Removable splice drawers with positive stop
- Smoked polycarbonate front door exposes designation card
- Two or three drawer designs to accommodate up to 144 fibers
- Ample storage slack, maintaining a 1.5” minimum bend radius
- Splice trays may be located in a variety of positions within the splice drawer
- Mounts on 19” or 23” racks (reversible brackets)
- Removable doors provide increased enclosure access
- Sturdy 16 gauge steel construction with a durable beige powder coat finish
- Splice trays with optional fusion, fusion with heat shrink, or mechanical splice pads
- Single part number specifies panel size and splice trays
### Cable Designation Card

- **Polycarbonate Front Door**
- **Splice Drawer**
- **Cable Tie Embossments**
- **Accessory Mounting Holes**
- **Rear Door**
- **Cable Entrance Port**
- **Cable Routing Guides**
- **Amphenol Splice Trays**
- **Velcro Straps**
- **Drawer Stop**
- **Drawer Stop Tab**
- **Universal Mounting Bracket**

#### Parts List

<table>
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<th>Part Number</th>
<th>Splice Capacity</th>
<th>Splice Type</th>
<th>Drawers</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>948-402SY-10A00</td>
<td>48</td>
<td>Fusion</td>
<td>2</td>
<td>17.3&quot;W x 5.3&quot;H x 11.9&quot;D</td>
</tr>
<tr>
<td>948-402SY-20A00</td>
<td>48</td>
<td>Fusion with Heat Shrink</td>
<td>2</td>
<td>17.3&quot;W x 5.3&quot;H x 11.9&quot;D</td>
</tr>
<tr>
<td>948-402SY-30A00</td>
<td>48</td>
<td>Mechanical</td>
<td>2</td>
<td>17.3&quot;W x 5.3&quot;H x 11.9&quot;D</td>
</tr>
<tr>
<td>948-602SY-10A00</td>
<td>72</td>
<td>Fusion</td>
<td>2</td>
<td>17.3&quot;W x 5.3&quot;H x 11.9&quot;D</td>
</tr>
<tr>
<td>948-602SY-20A00</td>
<td>72</td>
<td>Fusion with Heat Shrink</td>
<td>2</td>
<td>17.3&quot;W x 5.3&quot;H x 11.9&quot;D</td>
</tr>
<tr>
<td>948-602SY-30A00</td>
<td>72</td>
<td>Mechanical</td>
<td>3</td>
<td>17.3&quot;W x 6.8&quot;H x 11.9&quot;D</td>
</tr>
<tr>
<td>948-702SY-10A00</td>
<td>96</td>
<td>Fusion</td>
<td>2</td>
<td>17.3&quot;W x 5.3&quot;H x 11.9&quot;D</td>
</tr>
<tr>
<td>948-702SY-20A00</td>
<td>96</td>
<td>Fusion with Heat Shrink</td>
<td>2</td>
<td>17.3&quot;W x 5.3&quot;H x 11.9&quot;D</td>
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<tr>
<td>948-802SY-10A00</td>
<td>144</td>
<td>Fusion</td>
<td>3</td>
<td>17.3&quot;W x 6.8&quot;H x 11.9&quot;D</td>
</tr>
<tr>
<td>948-802SY-20A00</td>
<td>144</td>
<td>Fusion with Heat Shrink</td>
<td>3</td>
<td>17.3&quot;W x 6.8&quot;H x 11.9&quot;D</td>
</tr>
</tbody>
</table>
Description
Amphenol’s 948 Series Rack Mount Distribution Panels are designed to incorporate both patching and splicing within the same enclosure. This eliminates unnecessarily exposing fiber optic cables which are vulnerable when utilizing separate enclosures for patching and splicing. They are available in a variety of sizes to accommodate from 24 to 96 fibers.

The Rack Mount Distribution Panel fully encloses the pigtails (usually routed between separate panels), providing greater protection and shorter cable lengths. The enclosures provide ample fiber optic cable storage within a removable drawer. Each drawer can accommodate up to two splice trays for a total of 48 fusion splices.

Rack Mount Distribution Panels are used in backbone intermediate and horizontal cross-connects, equipment rooms, building entrances, headends, central offices, computer rooms and customer premise applications.

Features
• Removable splice drawers with positive stop
• Smoked polycarbonate front door exposes designation card
• Ample storage slack, maintaining a 1.5” minimum bend radius
• Mounts on 19” or 23” racks (reversible brackets)
• Removable doors provide increased enclosure access
• Sturdy 16 gauge steel construction with a durable beige powder coat finish
• SC, FC, or ST adapters pre-installed
• Splice trays with optional fusion, fusion with heat shrink, or mechanical splice pads
• Variety of pre-terminated cable assemblies available pre-installed (optional)
• Single part number specifies panel size, adapters, splice trays, and pigtails

Products
• 24, 48, 72, or 96 fiber capacity Rack Mount Distribution Panels
### Connector/Adapter Style

- **A** = S/M SC (ceramic)
- **B** = S/M SC Duplex (ceramic)
- **C** = S/M FC Flange (ceramic)
- **D** = S/M FC D-Hole (ceramic)
- **E** = S/M FC D-Hole (angle ceramic)
- **F** = S/M ST metal body (ceramic)
- **G** = M/M SC (metal)
- **H** = M/M SC Duplex (metal)
- **J** = M/M FC Flange (metal)
- **K** = M/M FC D-Hole (metal)
- **L** = M/M ST metal body (metal)
- **Q** = S/M SC (angle ceramic)
- **T** = S/M ST polymer body (metal)

### Fiber Capacity

- **2** = 24
- **4** = 48
- **6** = 72
- **7** = 96

### Splice Pad

- **1** = Fusion Splice
- **2** = Fusion Splice w/Heat Shrink
- **3** = Mechanical

### Cable Type

- **A** = None
- **B** = 900µm Buffered Pigtail
- **C** = 3 mm Jacketed Pigtail
- **D** = 12 Fiber (No Fiber Sub-Groups)
- **K** = 900µm Jacketed Pigtail

### Pigtails

- **0** = No Pigtails
- **1** = S/M Super Polish
- **2** = S/M Ultra Polish
- **3** = S/M Angle Polish
- **4** = M/M 50/125 Fiber
- **5** = M/M 62.5/125 Fiber
- **6** = M/M 100/140 Fiber

### Cable Length

Specify in meters (eg. 05 = 5 meters)

### Fiber Capacity Dimensions

- **24** = 17.3"W x 5.3"H x 11.9"D
- **48** = 17.3"W x 10.8"H x 11.9"D
- **72** = 17.3"W x 10.8"H x 11.9"D
- **96** = 17.3"W x 14.3"H x 11.9"D
Description
Amphenol’s 948 Series Rack Mount Coupler Panels are designed to incorporate fiber optic coupler products within the same fiber management frame system. They are available with either 8 or 12 module positions. The Rack Mount Coupler Panels are capable of housing a number of coupler modules with a variety of configurations. Coupler modules are available with power splitters, WDM’s, DWDMs, and tap couplers. Each coupler module conveniently displays a diagramed configuration of the photonic product enclosed.

Rack Mount Coupler Panels are used in network distribution signal monitoring, backbone intermediate and horizontal cross-connects, unidirectional / bi-directional links, equipment rooms, building entrances, headends, trunking applications, central offices, and computer rooms.

Products
• 8 or 12 position Rack Mount Coupler Panels

Features
• Smoked polycarbonate front door exposes designation card
• Mounts on 19” or 23” racks (reversible brackets)
• Removable doors provide increased enclosure access
• Sturdy 16 gauge steel construction with a durable beige powder coat finish
• Removable coupler modules (ordered separately)
• Coupler module ports are placed on an angle for added bend relief protection
• Coupler configuration and part number label located on coupler module
• Variety of WDMs, power splitters, and tap couplers are available
• Specify panel size and coupler module/configuration utilizing only two part numbers

Coupler Panels

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>948-100-5105</td>
<td>8 position coupler panel</td>
<td>17.3&quot;W x 5.3&quot;H x 11.9&quot;D</td>
</tr>
<tr>
<td>948-100-5106</td>
<td>12 position coupler panel</td>
<td>17.3&quot;W x 6.8&quot;H x 11.9&quot;D</td>
</tr>
</tbody>
</table>
Amphenol's Coupler Modules provide an excellent package for protecting and managing any variety of splitters or WDM's. Each module is conveniently stored in Amphenol’s coupler panel and integrated directly within the network bays for optimal flexibility and maintenance accessibility. All photonic products are made by using fused biconic taper manufacturing practices and Amphenol’s high quality standards.

### Splitters
Types:
- Single Window Broadband 1310nm
- Single Window Broadband 1550nm
- Wideband 1310/1550nm
- Tap Coupler 1310nm or 1550nm
- Optical Splitters

Configurations: 1x2, 2x2, 1x3, 1x4 and 1xN . . .

Coupling Ratios: 50/50, 10/90, 33/67, 33/33/33, 25/25/25/25 (additional coupling ratios available)

Available with adapter ports or pigtails in SC, FC & ST

Thermal stability ≤ 0.2dB variation in insertion loss

Storage temperature: -40° to +85°C

Directivity: < -55dB

Fiber: Corning SMF -28

### WDMs
Types:
- Unidirectional Mux 1310Tx/1550Tx
- Unidirectional Demux 1310Rx/1550Rx
- Bi-directional 1310Rx/1550Tx
- Bi-directional 1310Tx/1550Rx
- Add/Drop 1310/1550nm
- Narrowband 1533/1557nm
- DWDM 4, 8, 12 & 16 channels

Available with adapter ports or pigtails in SC, FC & ST

Thermal stability <0.2dB variation in insertion loss (DWDM ≤ 0.5dB)

Storage temperature: -40° to +85°C

Operating Temperature (DWDM) 0° to 70°C

Fiber: Corning SMF -28

Note: See coupler data sheets for further specifications and information.
Description
Complete cable routing guide kits are composed of both Enhanced Cable Brackets and Vertical Cable Guides. The Enhanced Cable Brackets are designed to provide better cable management entering and exiting enclosures. They allow fiber distribution frames to increase in fiber capacity by providing the ability to add or remove patch cords without disturbing neighboring fibers. The Vertical Cable Guides manage cables routed vertically alongside the enclosures.

Vertical Cable Guides
- Provides an orderly channel for routing fiber optic cables vertically along the enclosures.
- Versions available for 19” or 23” frames.
- Unique design allows panels to be added or removed without removing guides.

Enhanced Cable Brackets
- Improved bend radius protection allows fiber optic cables to make a horizontal to vertical transition.
- Routing fingers provide excellent fiber organization by reducing the number of fibers being grouped.
- Mounts directly to enclosure allowing greater flexibility

Products

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Where Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>948-100-5225</td>
<td>Vertical Cable Guides, 19”</td>
<td>On 19” frames for all rack mount panels</td>
</tr>
<tr>
<td>948-100-5220</td>
<td>Vertical Cable Guides, 23”</td>
<td>On 23” frames for all rack mount panels</td>
</tr>
<tr>
<td>948-100-5221</td>
<td>6” Enhanced Cable Guides</td>
<td>48 &amp; 72 port rack mount panels</td>
</tr>
<tr>
<td>948-100-5222</td>
<td>9” Enhanced Cable Guides</td>
<td>96 port rack mount panels</td>
</tr>
<tr>
<td>948-100-5226*</td>
<td>6” Cable Routing Kit, 19”</td>
<td>19” frames and 48 &amp; 72 port panels</td>
</tr>
<tr>
<td>948-100-5227*</td>
<td>9” Cable Routing Kit, 19”</td>
<td>19” frames and 96 port panels</td>
</tr>
<tr>
<td>948-100-5223*</td>
<td>6” Cable Routing Kit, 23”</td>
<td>23” frames and 48 &amp; 72 port panels</td>
</tr>
<tr>
<td>948-100-5224*</td>
<td>9” Cable Routing Kit, 23”</td>
<td>23” frames and 96 port panels</td>
</tr>
</tbody>
</table>

* Cable Routing Kits include Vertical Cable Guides and Enhanced Cable Guides
Description
Amphenol’s Cable Clamp provides a unique method for securing fiber optic cables. Each cable clamp includes a multi-diameter module that perfectly fits any size cable in its range. The multi-diameter modules easily adapt to fit fiber optic cables simply by removing a few layers from its center core. This unique method of securing the cable provides excellent protection and axial clamping.

Features
• Unique multi-diameter module gently grips cable without potential for damage
• Accommodates a wide range of cable sizes
• Removable layers allows a perfect fit to be easily made with the cable
• Three different sizes available to fit cables from 4 to 32 mm
• Configurations available for clamping multiple cables within a single clamp
• Versions available for panel or frame mounting
• Reduces radii required for entering enclosures

Products

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Where Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>948-100-5210</td>
<td>Cable Clamp 4-13.5mm</td>
<td>Panel Mount</td>
</tr>
<tr>
<td>948-100-5211</td>
<td>Cable Clamp 12-22mm</td>
<td>Panel Mount</td>
</tr>
<tr>
<td>948-100-5212</td>
<td>Cable Clamp 22-32mm</td>
<td>Panel Mount</td>
</tr>
<tr>
<td>948-100-5213</td>
<td>Cable Clamp 4-13.5mm</td>
<td>Frame Mount</td>
</tr>
<tr>
<td>948-100-5214</td>
<td>Cable Clamp 12-22mm</td>
<td>Frame Mount</td>
</tr>
<tr>
<td>948-100-5215</td>
<td>Cable Clamp 22-32mm</td>
<td>Frame Mount</td>
</tr>
</tbody>
</table>
Description
Amphenol’s 948 Series Splice Trays provide an organized means of storing and protecting completed fiber optic splices. Bend radius protection and fold-over arms prevent fibers from being damaged during handling.
Each 300mm tray can accommodate up to 24 fusion splices or 12 mechanical splices. Each 200mm tray can accommodate up to 12 fusion or mechanical splices. Splice trays are included with Amphenol Splice and Distribution Panels.

Features
• Unique fold-over arms provide added protection
• Bend radius protection for stored fibers
• Easily stackable
• Store up to 0.5 meters of each buffered fiber
• 300mm or 200mm designs available

Products

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Where Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>948-2362</td>
<td>200mm Tray for 12 Fusion Splices</td>
<td>7.8”L x 4.8”W x 1.0”H</td>
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<tr>
<td>948-2363</td>
<td>200mm Tray for 12 Fusion w/Heat Shrink Splices</td>
<td>7.8”L x 4.8”W x 1.0”H</td>
</tr>
<tr>
<td>948-2364</td>
<td>200mm Tray for 12 Mechanical Splices</td>
<td>7.8”L x 4.8”W x 1.0”H</td>
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<tr>
<td>948-2366</td>
<td>300mm Tray for 24 Fusion Splices</td>
<td>11.8”L x 4.8”W x 1.0”H</td>
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<tr>
<td>948-2367</td>
<td>300mm Tray for 24 Fusion w/Heat Shrink Splices</td>
<td>11.8”L x 4.8”W x 1.0”H</td>
</tr>
<tr>
<td>948-2368</td>
<td>300mm Tray for 12 Mechanical Splices</td>
<td>11.8”L x 4.8”W x 1.0”H</td>
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</tbody>
</table>
Six Pack Coupler Modules
Amphenol's Six Pack Coupler Modules are designed to incorporate splitters, WDMs, and tap couplers within a fiber optic patch panel. The modules are completely enclosed giving optimal protection to the fiber optic couplers. Six Pack Coupler Modules are available in a variety of configurations. Please contact the Inside Sales Department for more details.

Cable Assemblies
Amphenol provides a complete array of fiber optic patch cords and pigtails. Pigtails can be ordered pre-installed into the fiber management panels to reduce installation time and costs. All Amphenol patch cords and pigtails are manufactured of the highest quality materials and are 100% optically tested for insertion loss and back reflection.

Six Packs
Amphenol's 948 Series Six Packs are included with Amphenol fiber management panels. Additional Six Packs are available as outlined below. They are available with all variations of SC, FC, and ST adapters. Each six pack comes loaded with the designated adapter and nylatches for installation in Amphenol fiber management panels.

Six Packs (with Adapters)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Sleeve Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>948-100-2111</td>
<td>S/M SC</td>
<td>Ceramic</td>
</tr>
<tr>
<td>948-100-2112</td>
<td>S/M FC Flange</td>
<td>Ceramic</td>
</tr>
<tr>
<td>948-100-2113</td>
<td>S/M FC D-Hole</td>
<td>Ceramic</td>
</tr>
<tr>
<td>948-100-2114</td>
<td>S/M ST metal</td>
<td>Ceramic</td>
</tr>
<tr>
<td>948-100-2115</td>
<td>S/M SC Duplex</td>
<td>Ceramic</td>
</tr>
<tr>
<td>948-100-2116</td>
<td>S/M FC D-Hole, angle</td>
<td>Ceramic</td>
</tr>
<tr>
<td>948-100-2127</td>
<td>M/M SC</td>
<td>Metal</td>
</tr>
<tr>
<td>948-100-2122</td>
<td>M/M FC Flange</td>
<td>Metal</td>
</tr>
<tr>
<td>948-100-2123</td>
<td>M/M FC D-Hole</td>
<td>Metal</td>
</tr>
<tr>
<td>948-100-2124</td>
<td>M/M ST metal</td>
<td>Metal</td>
</tr>
<tr>
<td>948-100-2128</td>
<td>M/M SC Duplex</td>
<td>Metal</td>
</tr>
<tr>
<td>948-100-2110</td>
<td>Blank Cover</td>
<td>n/a</td>
</tr>
</tbody>
</table>
Network Bays (Frames)

A full line of unequal flange network bays are available with either 19” or 23” mounting configurations. Bays can be pre-loaded with any variety of fiber management panels to suit a broad range of customer requirements and applications.

- Sturdy 11 gauge steel construction with a beige powder coat finish
- 12-24 tapped holes with 1” vertical spacing
- Designed to meet telephone industry standards for Network Bay Frames and for Zone 4 Earthquake Braced Bays
- Ground wire kit included with each frame

Description

Amphenol’s 948 Series Frames and Accessories are designed to provide the necessary organization and protection required for fiber optic installations. Fiber protection and integrity has been considered throughout the Fiber Management System to insure that there is ample bend radii and cable routing.

Products

- Network Bays
- Cable Troughs
- End Panels
- Rear Bay Doors
- Cable Brackets
- Installation Kits
- Interbays
- Cable Clamps
- Vertical Routing Guides

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Ordering Information

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>948-2380</td>
<td>7’ x 23” Network Bay, seismic zone 4</td>
<td>84.0”H x 26.0”W x 12”D</td>
</tr>
<tr>
<td>948-2381</td>
<td>7’ x 19” Network Bay, seismic zone 4</td>
<td>84.0”H x 21.9”W x 12”D</td>
</tr>
<tr>
<td>948-2404</td>
<td>Rear Bay Doors</td>
<td>83.9”H x 26.0”W x 4.5”D</td>
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<tr>
<td>948-2447</td>
<td>Anchor Kit, Non-Isolated, seismic zone 4</td>
<td>n/a</td>
</tr>
<tr>
<td>948-2448</td>
<td>Anchor Kit, Isolated, seismic zone 4</td>
<td>n/a</td>
</tr>
</tbody>
</table>
**Cable Troughs**

Upper and Lower Cable Troughs are available for optimal cable routing flexibility. These troughs allow fiber optic cables to be safely routed between frames.

- Mount on 19” or 23” frames
- Transitions between vertical routing and horizontal routing
- Upper trough provides bend radius protection

**Interbay Cable Management Panels**

The Interbay Cable Management Panels provide an efficient and organized means of managing patchcords between fiber distribution frames. Patchcord slack can also be stored easily within the interbay spools.

- Provides added bend radius protection entering/exiting panels
- Versions available for vertical and horizontal management
- Improves cable routing and organization
- Stores excess patchcord slack

**End Panels**

End Panels are used to provide protection at the end of a network bay line-up. They provide added protection and strength to the fiber distribution frames. The End Panels can be used in either right or left hand applications.

- May be mounted directly to the rack or used with Interbay Cable Management Organizers
- Includes covers and cutouts for AC receptacles, switches, and alarm lights
- Provides protection in a frame line-up

### Products

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Dimensions</th>
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</thead>
<tbody>
<tr>
<td>948-2384</td>
<td>Interbay Cable Management Panel</td>
<td>84.0”H x 4.9”W x 12.0”D</td>
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<tr>
<td>948-2453</td>
<td>Horizontal Interbay (23” frames)</td>
<td>8.0”H x 23.0”W x 4.3”D</td>
</tr>
<tr>
<td>948-2392</td>
<td>7” x 12” End Panels</td>
<td>84.0”H x 2.6”W x 12.0”D</td>
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<tr>
<td>948-2394</td>
<td>Upper Cable Trough (23” frames)</td>
<td>6.4”H x 23.4”W x 5.2”D</td>
</tr>
<tr>
<td>948-2395</td>
<td>Lower Cable Trough (23” frames)</td>
<td>9.3”H x 25.9”W x 5.2”D</td>
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<tr>
<td>948-2399</td>
<td>Upper Cable Trough (19” frames)</td>
<td>6.4”H x 19.4”W x 5.2”D</td>
</tr>
<tr>
<td>948-2400</td>
<td>Lower Cable Trough (19” frames)</td>
<td>9.3”H x 21.8”W x 5.2”D</td>
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