



# MANUFACTURED CONNECTIVITY SOLUTIONS

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# ABOUT ALLIANCE

As one of the largest communications infrastructure distributors in North America, Alliance Corporation is committed to delivering a seamless experience that will meet your project needs every time

## FEATURED SOLUTIONS



*Wireless  
Infrastructure*



*DAS, Indoor Wireless,  
& Public Safety*



*Wireless  
Broadband*



*Cellular  
IoT*

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## STATE-OF-THE ART MANUFACTURING

All cables are manufactured using a process that ensures unsurpassed connector performance, meeting or exceeding industry standards for reflectance and insertion loss.

State of the art test equipment is used to measure back reflection (RL), insertion loss (IL) and the end face geometry, ensuring that every single connector passes quality tests.

Each assembly is 100% tested and each assembly is accompanied by a test report, indicating that it passed quality tests before leaving the factory. A copy of each report is kept on file and can be accessed by serial number to check cable quality in the field.

## CUSTOM FIBER OPTIC SOLUTIONS

If the off-the-shelf doesn't work for you, Alliance can provide a custom fiber optic cable solution.

We can engineer and manufacture custom cable solutions for all fiber to the X (FTTx) requirements.

We work closely with you to understand the network requirements and provide you with a fiber optic cable design that meets your needs.

We can engineer and manufacture fiber & power cables of all types:

- **Separate Fibre + DC**
- **Sectorized: Multiple sources – very flexible**
- **Trunked: Multi-fiber, multi-conductor DC**
- **Composite / Hybrid**

# C U S T O M C A B L E

## Assemblies

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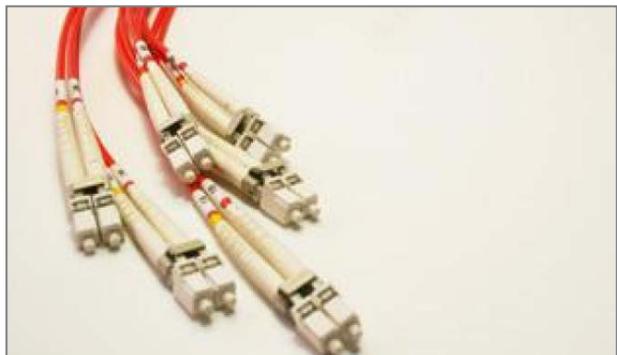
Cable assemblies can be built for any requirement, with any type of cable and any type of connector.



*Indoor and Outdoor  
MPO Cable Assembly*



*Harsh Environment Assembly  
with Fiber & Power*



*SM & MM Fanout Cable Assemblies*



*Outdoor Composite Breakout  
Cable Assembly*

# CUSTOM CABLE

## Packaging & Shipping Options

Cable assemblies can be built for any requirement, with any type of cable and any type of connector.



*Protective sock protects the breakout.*



*Shipping container space maximised to reduce costs.*



*Site kitting - cables assemblies packaged with other site materials, ease of deployment, single source.*



*Smaller cable assemblies may be packaged in cartons.*



*Cable assemblies may be packaged on custom reels.*

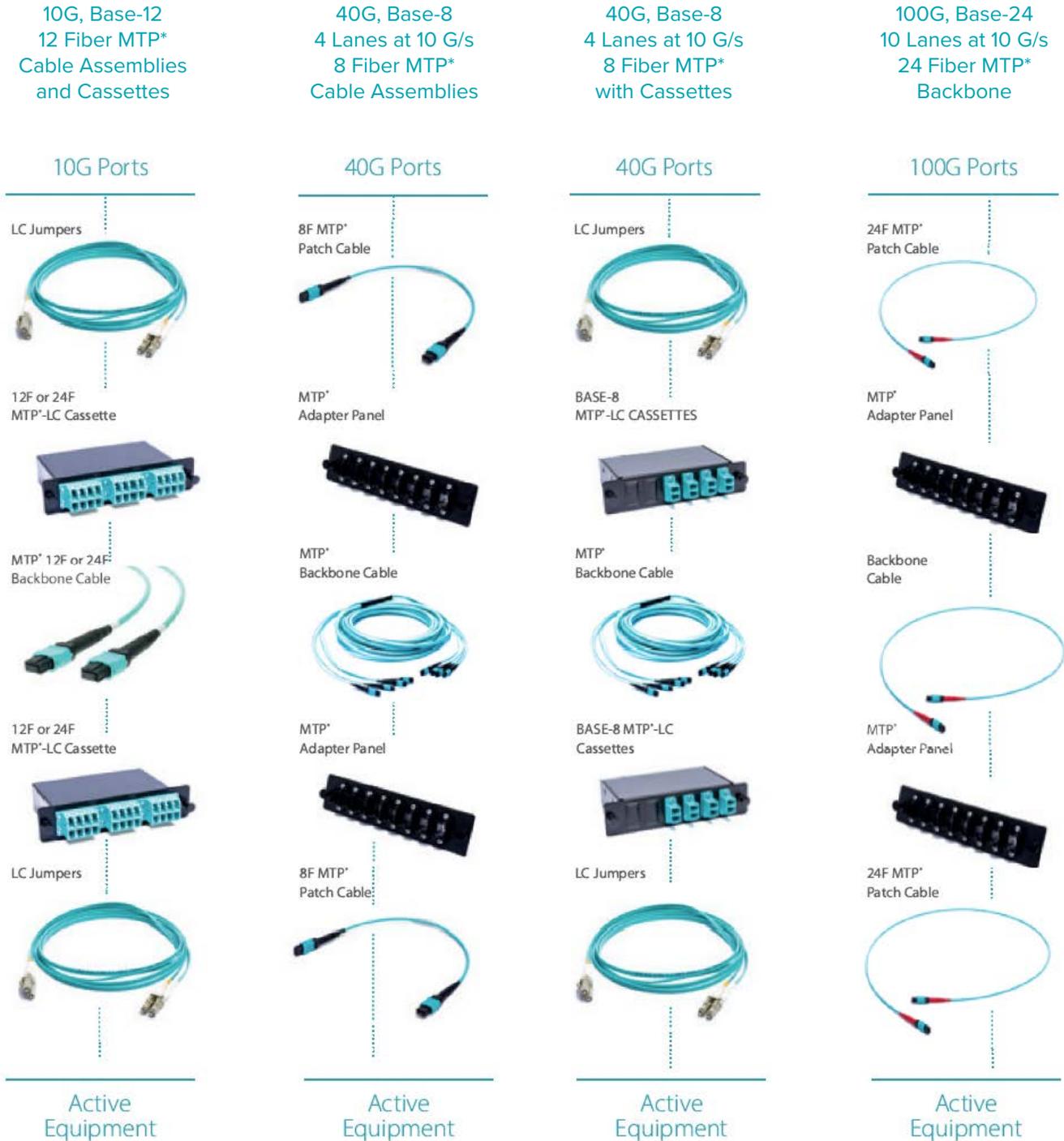


*Rugged reels for redeployment, harsh environments.*

# DATA CENTER INDOOR SOLUTIONS

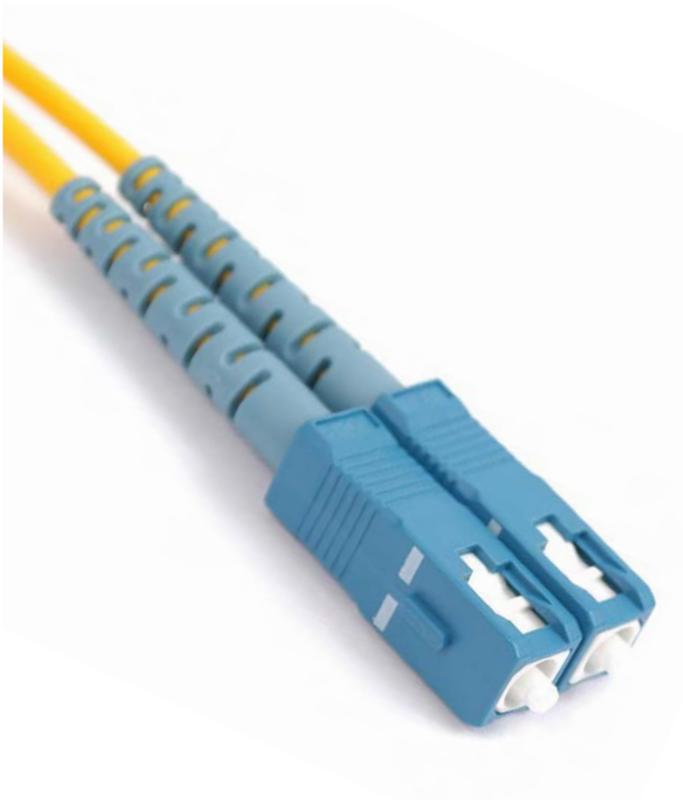
We offer a variety of options to support 10/40/100G networks, guaranteeing the most cost-effective and future-proof network available for your particular design.

Consult your Alliance sales representative for products that allow easy migration to 40/100G.



# FIBER OPTIC PATCH CORDS

## Single Mode Fiber Optic Patch Cords



These 900 $\mu$ m singlemode fiber optic patch cords may be terminated with combination of ST, SC, FC, and LC fiber optic connectors.

The connectors have an Ultra High Polish (UPC). The fiber optic connector ferrules have a precision machine polish that ensures consistent, reliable performance.

This product is guaranteed to meet or exceed fiber optic industry standards.

Available in lengths including 1.3, 5, and 10m, where X = length for the part number.

*Custom lengths available!*

### Specifications - Singlemode

Typical Loss	0.3 dB
Back Reflection	-55 dB

### SINGLE MODE UPC 900 $\mu$ m

Connectors	Type	Part No.
SC-SC	SIMPLEX	ACI-0S2S-SC-SC-X
ST-ST	SIMPLEX	ACI-0S2S-ST-ST-X
LC-LC	SIMPLEX	ACI-0S2S-LC-LC-X
FC-FC	SIMPLEX	ACI-0S2S-FC-FC-X
SC-SC	DUPLEX	ACI-0S2D-SC-SC-X
ST-ST	DUPLEX	ACI-0S2D-ST-ST-X
LC-LC	DUPLEX	ACI-0S2D-LC-LC-X
FC-FC	DUPLEX	ACI-0S2D-FC-FC-X
SC-ST	SIMPLEX	ACI-0S2S-SC-ST-X
LC-SC	SIMPLEX	ACI-0S2S-LC-SC-X
ST-SC	DUPLEX	ACI-0S2D-ST-SC-X
LC-SC	DUPLEX	ACI-0S2D-LC-SC-X

# FIBER OPTIC PATCH CORDS

## MultiMode Fiber Optic Patch Cords



These 50 $\mu$ m & 62.5 $\mu$ m multimode fiber optic patch cords may be terminated with combination of ST, SC, and LC fiber optic connectors.

The fiber optic connector ferrules have a precision machine polish that ensures consistent, reliable performance.

This product is guaranteed to meet or exceed fiber optic industry standards.

Available in lengths including 1.3, 5, and 10m, where X = length for the part number.

### Specifications - Multimode

Typical Loss	0.4 dB
Back Reflection	-25 dB

### MULTIMODE UPC 50 $\mu$ m & 62.5 $\mu$ m

Connectors	Type	Part No.
SC-SC	SIMPLEX-OM2	ACI-OM2S-SC-SC-X
ST-ST	SIMPLEX-OM2	ACI-OM2S-ST-ST-X
LC-LC	SIMPLEX-OM2	ACI-OM2S-LC-LC-X
SC-SC	DUPLEX-OM2	ACI-OM2D-SC-SC-X
ST-ST	DUPLEX-OM2	ACI-OM2D-ST-ST-X
LC-LC	DUPLEX-OM2	ACI-OM2D-LC-LC-X
SC-SC	SIMPLEX-OM2	ACI-OM2S-SC-SC-X
ST-ST	SIMPLEX-OM2	ACI-OM2S-ST-ST-X
LC-LC	SIMPLEX-OM2	ACI-OM2S-LC-LC-X
SC-SC	DUPLEX-OM2	ACI-OM2D-SC-SC-X
ST-ST	DUPLEX-OM2	ACI-OM2D-ST-ST-X
LC-LC	DUPLEX-OM2	ACI-OM2D-LC-LC-X

# FIBER OPTIC PATCH CORDS

## Specialty & Custom Fiber Optic Patch Cords



Connectors on these fiber optic patchcords have an APC or "Angled Polish Connector" polish on the fiber optic connector endfaces. This polish results in a highly radius domed endface surface that optimizes physical contact between the mated fiber cored. This type of fiber optic patchcord is ideal for a wide range of applications where back reflection must be kept to a minimum. This fiber optic patchcord is guaranteed to meet or exceed industry standards.

### Specifications - OM3 & OM4

Typical Loss	0.4 dB
Back Reflection	-25 dB

### MULTIMODE 10 GIG PC 50 $\mu$ m - OM3 & OM4

Connectors	Type	Part No.
SC-SC	SIMPLEX-OM3	ACI-OM3S-SC-SC-X
ST-ST	SIMPLEX-OM3	ACI-OM3S-ST-ST-X
LC-LC	SIMPLEX-OM3	ACI-OM3S-LC-LC-X
SC-ST	SIMPLEX-OM3	ACI-OM3S-SC-ST-X
LC-SC	SIMPLEX-OM3	ACI-OM3S-LC-SC-X
LC-ST	SIMPLEX-OM3	ACI-OM3S-LC-ST-X
SC-SC	DUPLEX-OM3	ACI-OM3D-SC-SC-X
LC-LC	DUPLEX-OM3	ACI-OM3D-LC-LC-X
ST-ST	DUPLEX-OM3	ACI-OM3D-ST-ST-X
SC-ST	DUPLEX-OM3	ACI-OM3D-SC-ST-X
LC-ST	DUPLEX-OM3	ACI-OM3D-LC-ST-X
SC-SC	DUPLEX-OM4	ACI-OM4D-SC-SC-X
LC-LC	DUPLEX-OM4	ACI-OM4D-LC-LC-X
LC-SC	DUPLEX-OM4	ACI-OM4D-LC-SC-X

# FIBER OPTIC PATCH CORDS

## Specialty & Custom Fiber Optic Patch Cords



The multimode fiber optic cable assembly is terminated with MT-RJ female fiber optic connectors on 1.6 mm fiber optic cable. Other fiber optic patchcord configurations such as Singlemode and 50 $\mu$ m MT-RJ fiber optic patchcords are available. Our MT-RJ fiber optic patchcords are individually tested and bagged in compliance with industry specifications. These MT-RJ fiber optic patchcords do not have alignment pins installed.

### Specifications - Multimode

Typical Loss	0.4 dB
Back Reflection	-25 dB

### MULTIMODE 62.5 $\mu$ m

Connectors	Type	Part No.
MTRJ-MTRJ	FEMALE	ACI-OMI-MTRJ-MTRJ-X
MTRJ-ST	FEMALE	ACI-OMI-MTRJ-ST-X
MTRJ-SC	FEMALE	ACI-OMI-MTRJ-SC-X



*Custom lengths available!*

Connectors on these fiber optic patchcords have an APC or "Angled Polish Connector" polish on the fiber optic connector endfaces. This polish results in a highly radius domed endface surface that optimizes physical contact between the mated fiber cored. This type of fiber optic patchcord is ideal for a wide range of applications where back reflection must be kept to a minimum. This fiber optic patchcord is guaranteed to meet or exceed industry standards.

### Specifications - Multimode

Typical Loss	0.2 dB
Back Reflection	-65 dB

### SINGLEMODE APC 900 $\mu$ m

Connectors	Type	Part No.
SC-SC	SIMPLEX	ACI-APC0S1-SC-SC-X
LC-LC	SIMPLEX	ACI-APC0S1-LC-LC-X
FC-AC	SIMPLEX	ACI-APC0S1-FC-AC-X
FC-FC	SIMPLEX	ACI-APC0S1-FC-FC-X
SC-SC	DUPLEX	ACI-APC0S2-SC-SC-X
LC-LC	DUPLEX	ACI-APC0S2-LC-LC-X
FC-AC	DUPLEX	ACI-APC0S2-FC-AC-X

# PIGTAILS



Typically 1-3 meters in length, pigtails are assemblies that have a factory-terminated connector on one end of a tight buffered fiber and are open on the other end. This open end is to be used for fusion splicing to another piece of fiber.

Pigtails eliminate the need for mechanical splice connectors or any other type of field-termination.

### *Pigtail options include:*

- Individual 900-micron ‘unjacketed’ fiber terminated with any type of connector and in any glass type
- Multi-strand fiber without a jacket, bundled in color-coded groups of 6 or 12
- Multi-strand fiber that remains jacketed, typically with an 18" 900-micron breakout
- 6, 12, 24, 36, 48, 72, 144, and 288-strand fiber counts available



Fiber Mode	Cable Rating	Cable Application	Cable OD	Connector A	Connector B	Fiber Count	Unit of Measure
OS-2 Singlemode (Yellow)	RI = OFNR (Riser)	I = Indoor	1.6 mm	LCD = LC Duplex	LCD = LC Duplex	1	FT
OM1 Multimode (Orange)	PI = OFNP (Plenum)	IA= Indoor Armoured	2 mm	LCS = LC Simplex	LCS = LC Simplex	2	M
OM3 Multimode (Aqua)	LZ = LSZH (Low Smoke)		3 mm	ALCD = LC/APC Duplex	ALCD = LC/APC Duplex	6	
OM4 Multimode (Aqua)				ALCS = LC/APC Simplex	ALCS = LC/APC Simplex	12	
OM5 Multimode (Lime Green)				SCD = SC Duplex	SCD = SC Duplex	24	
				ASCD = SC/APC Duplex	ASCD = SC/APC Duplex	36	
				ASCS = SC/APC Simplex	ASCS = SC/APC Simplex	48	
				OTHER	OTHER	72	

# P I G T A I L S

Six-pack fiber optic cable assemblies include fiber colors of Blue/Orange/Green/Brown/Slate/White and are three meters in length. Meanwhile, 12-pack fiber optic cable assemblies include all twelve standard industry colors. X= length. See the chart below.

## DISTRIBUTION STYLE

# of Fibers	Connector	Polish	Mode	Part No.
6	SC	UPC	Singlemode	ACI-OS2-6SC-UPC-X
12	SC	UPC	Singlemode	ACI-OS2-12SC-UPC-X
6	SC	APC	Singlemode	ACI-OS2-6SC-APC-X
12	SC	APC	Singlemode	ACI-OS2-12SC-APC-X
6	LC	UPC	Singlemode	ACI-OS2-6LC-UPC-X
12	LC	UPC	Singlemode	ACI-OS2-12LC-UPC-X
6	ST	UPC	Singlemode	ACI-OS2-6ST-UPC-X
12	ST	UPC	Singlemode	ACI-OS2-12ST-UPC-X
6	SC	UPC	Multimode	ACI-OM2-6SC-UPC-X
12	SC	UPC	Multimode	ACI-OM2-12SC-UPC-X
6	LC	UPC	Multimode	ACI-OM2-6LC-UPC-X
12	LC	UPC	Multimode	ACI-OM2-12LC-UPC-X
6	ST	UPC	Multimode	ACI-OM2-6ST-UPC-X
12	ST	UPC	Multimode	ACI-OM2-12ST-UPC-X
6	SC	UPC	Multimode, 50µm, OM3	ACI-OM3-6SC-UPC-X
12	SC	UPC	Multimode, 50µm, OM3	ACI-OM3-612C-UPC-X
6	LC	UPC	Multimode, 50µm, OM3	ACI-OM3-6LC-UPC-X
12	LC	UPC	Multimode, 50µm, OM3	ACI-OM3-12LC-UPC-X

The following multimode fiber optic cable assembly is terminated with MT-RJ female fiber optic connectors on 1.6 mm fiber optic cable. Other fiber optic patch cord configurations such as Single Mode and 50 µm MT-RJ fiber optic patch cords are available. Our MT-RJ fiber optic patch cords are individually tested and bagged in compliance with industry specifications.

These MT-RJ fiber optic patch cords do not have alignment pins installed.

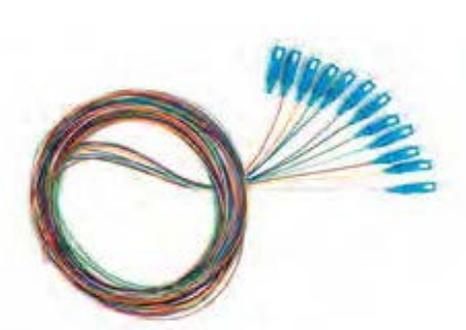


## MULTIMODE 62.5μm

Connectors	Type	Part No.
MTRJ-MTRJ	FEMALE	ACI-OMI-MTRJ-MTRJ-X
MTRJ-ST	FEMALE	ACI-OMI-MTRJ-ST-X
MTRJ-SC	FEMALE	ACI-OMI-MTRJ-SC-X

### Specifications - Multimode

Typical Loss	0.4 dB
Back Reflection	-25 dB



### Specifications - Singlemode/APC

Typical Loss	0.3 / 0.2 dB
Back Reflection	-55 / -65 dB



### Specifications - Multimode/OM3

Typical Loss	0.4 dB
Back Reflection	-25 dB

# LC FIBER OPTIC FIELD POLISH TERMINATION

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*ACI-FC-FLCSMBLY*



*ACI-FC-FLCDS3.0BU*



*ACI-FC-FLCDMBLY*



*ACI-FC-BLCSSBU*



*ACI-FC-FLCDM3.0EI*

- TIA/EIA-604 FOCIS-10 compatible connectors
- Exceeds TIA/EIA-568-B.3 requirements
- Connector housing and boot colors follow TIA/EIA-568-C.3 suggested color identification scheme
- Insertion loss: 0.10dB average (multimode and singlemode)
- Return loss: >20dB (multimode), >40dB (singlemode)
- Non-optical disconnect maintains data transmission under tensile loads for jacketed cable
- Each simplex connector includes connector body/ ferrule assembly, crimp sleeve, one boot for 900µm buffered fiber and one boot for 1.6mm – 2.0mm jacketed cable and one dust cap; 3.0mm jacketed cable connectors are also available separately
- Each duplex connector includes two connector body/ ferrule assemblies, two crimp sleeves, two boots for 1.6mm – 2.0mm or 3.0mm jacketed cable or two boots for 900µm buffered fiber, two dust caps and one duplex clip
- LC duplex clip available separately for duplexing two simplex Panduit LC Connectors
- Fiber cable type: tight-buffered recommended
- Fiber cable size: accept 1.6mm – 2.0mm or 3.0mm jacketed cable, or 900µm buffered fiber (noted in part description)
- Ferrule type: 1.25mm zirconia ceramic (highest durability for repeated matings)
- Use field polish termination kit

## LC FIBER OPTIC CONNECTORS - FIELD POLISH TERMINATION

Part No.	Description	Color	Std. Pkg. Qty.	Std. Ctn. Qty.
<b>LC OM4/OM3/OM2 Multimode Fiber Optic Connectors</b>				
ACI-FC-FLCSMBLY	LC multimode simplex fiber optic connector for 1.6mm – 2.0mm jacketed cable or 900µm buffered fiber installation	Black	1	10
ACI-FC-FLCSM3.0BL	LC multimode simplex fiber optic connector for 3.0mm jacketed cable installation	Black	1	10
ACI-FC-FLCDMBLY	LC multimode duplex fiber optic connector for 1.6mm – 2.0mm jacketed cable installation	Black	1	10
ACI-FC-FLCFM900BLY	LC multimode duplex fiber optic connector for 900µm buffered fiber installation	Black	1	10
ACI-FC-FLCDM3.0BL	LC multimode duplex fiber optic connector for 3.0mm jacketed cable installation	Black	1	10
<b>LC OM1 Multimode Fiber Optic Connectors</b>				
ACI-FC-FLCSMEIY	LC multimode simplex fiber optic connector for 1.6mm – 2.0mm jacketed cable or 900µm buffered fiber installation	Electric Ivory	1	10
ACI-FC-FLCSM3.0EI	LC multimode simplex fiber optic connector for 3.0mm jacketed cable installation	Electric Ivory	1	10
ACI-FC-FLCDMEIY	LC multimode duplex fiber optic connector for 1.6mm – 2.0mm jacketed cable installation	Electric Ivory	1	10
ACI-FC-FLCDM900EIY	LC multimode duplex fiber optic connector for 900µm buffered fiber installation	Electric Ivory	1	10
ACI-FC-FLCDM3.0EI	LC multimode duplex fiber optic connector for 3.0mm jacketed cable installation	Electric Ivory	1	10
<b>LC OS1/OS2 Singlemode Fiber Optic Connectors</b>				
ACI-FC-FLCSSBUY	LC singlemode simplex fiber optic connector for 1.6mm– 2.0mm jacketed cable or 900µm buffered fiber installation	Blue	1	10
ACI-FC-FLCSS3.0BU	LC singlemode simplex fiber optic connector for 3.0mm jacketed cable installation	Blue	1	10
ACI-FC-FLCDSBUY	LC singlemode duplex fiber optic connector for 1.6mm– 2.0mm jacketed cable installation	Blue	1	10
ACI-FC-FLCDS900BUY	LC singlemode duplex fiber optic connector for 900µm buffered fiber installation	Blue	1	10
ACI-FC-FLCDS3.0BU	LC singlemode duplex fiber optic connector for 3.0mm jacketed cable installation	Blue	1	10
<b>LC 10Gig™ OM3/OM4 Field Polish Boots</b>				
ACI-FC-FLCBT900AQ-X	LC 10Gig™ OM3/OM4 Field Polish Boot for 900µm buffered fiber	Aqua	10	10
ACI-FC-FLCBT2AQ-X	LC 10Gig™ OM3/OM4 Field Polish Boot for 1.6/2.0mm jacketed cable	Aqua	10	10
ACI-FC-FLCBT3AQ-X	LC 10Gig™ OM3/OM4 Field Polish Boot for 3.0mm jacketed cable	Aqua	10	10
ACI-FC-FLCCLIP-L	LC duplex clip for duplexing two simplex Panduit LC field polish multimode or singlemode connectors	White	50	10

# NextLink HYBRID CONNECTIVITY SOLUTIONS

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## Innovative Composite Cables for Next-Generation Wireless Networks

Modern hybrid cable assemblies provide an advanced solution for wireless carriers transitioning to 5G and beyond. These specialized cables seamlessly integrate power and data transmission, delivering high performance while adhering to industry standards.

## Simplified Installation for Rapid Deployment

Modern hybrid cable assemblies provide an advanced solution for wireless carriers transitioning to 5G and beyond. These specialized cables seamlessly integrate power and data transmission, delivering high performance while adhering to industry standards.

## Cost-Effective Hybrid Cabling Solutions

Implementing hybrid cable technology can lead to substantial cost reductions, both in initial investment and long-term operational expenses:

- **Efficient and Fast Deployment:** Engineered for direct installation without requiring additional mounting structures.
- **Lower Infrastructure Costs:** Reduces reliance on extra tower-mounted equipment, minimizing rental expenses.
- **Pre-Assembled Designs:** Factory-tested configurations enhance installation efficiency while lowering error rates.

## Custom-Engineered Hybrid Cable Designs

These next-generation hybrid cables incorporate fiber optics and power conductors within a reinforced protective casing that also functions as a grounding layer. Enhanced shielding materials replace outdated alternatives, optimizing signal integrity. Optional configurations include integrated coaxial or Ethernet wiring for improved network performance.

# NextLink HYBRID CONNECTIVITY SOLUTIONS

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## Built for Durability in Challenging Environments

Constructed with weather-resistant materials such as PVC, Plenum, and LSZH jackets, these cables offer resilience against extreme temperatures, moisture, and UV exposure. Their robust design ensures long-term reliability in outdoor and industrial applications. Additionally, modular hybrid solutions provide flexibility for future upgrades, eliminating the need for complete cable replacement.

## High-Efficiency Data and Power Transmission

These hybrid cables efficiently facilitate power distribution, RF transmission, and fiber-based communication between remote radio units (RRUs) and baseband units (BBUs). By consolidating these essential functions into a single cable, they help minimize infrastructure demands while maximizing efficiency.

## Pre-Wired Rack and Deployment Systems

Factory-prepared rack and stack configurations enable quick integration into 5G, 4G, Wi-Fi, and LTE networks. These pre-terminated hybrid cables reduce deployment time, simplifying the installation process and lowering labor costs.

## Key Advantages of Hybrid Cable Solutions

- **Universal Installation Compatibility:** Designed for seamless integration with standard mounting hardware.
- **Lightweight, High-Durability Shielding:** Advanced materials reduce weight while maintaining flexibility and strength.
- **Long-Distance Connectivity:** Supports deployments up to 650 feet with minimal signal or power loss.
- **Pre-Terminated Fiber Assemblies:** Factory-assembled fiber components ensure accuracy and expedite installation.

## Tailored Enclosures for Network Infrastructure

Custom-designed weatherproof enclosures safeguard critical network components, such as fiber optics, power lines, and Ethernet connections. By integrating multiple elements into a single enclosure, these solutions enhance reliability while simplifying installation.

# **NextLink** HYBRID CONNECTIVITY SOLUTIONS

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## **Next-Gen Hybrid Connector Systems**

Designed for diverse FTTX applications, hybrid connectors provide seamless integration of power and fiber transmission. Key features include:

- A single-cable system for efficient data and power transfer.
- Support for various fiber capacities and power configurations.
- MPO fiber connectors available in single-mode or multimode options.
- Options for armored, unarmored, and flexible shielding designs.
- Weatherproof, UV-resistant materials for enhanced durability.
- Factory-tested components to reduce installation errors and ensure longevity.

## **Emergency Deployment Solutions**

To ensure network continuity, rapid-deployment cable reel systems provide an immediate backup in case of failures. These portable reels support fiber, copper, and hybrid configurations and are well-suited for towers, rooftops, small cells, and indoor networks.

## **Commitment to Excellence and Innovation**

Every hybrid cable solution is meticulously designed to meet industry performance standards while staying within budget and timeline constraints. From consultation to project completion, the focus remains on delivering high-quality, efficient cabling systems with rapid turnaround times.

# M P O T R U N K A S S E M B L I E S

MTP® Trunk, MTP® Patch, and MTP® Conversion assemblies are individual components that make up Allianc'es end-to-end solution. The MTP® trunks are the backbone of the network and interconnect to MTP® cassettes or adapter panels.

The MTP® patch cords cross connect the MTP® trunks directly into a transceiver or into active electronics. The MTP® Conversion assemblies allows users to convert their existing MTP® backbone cables to an MTP® type which matches their active equipment.

These assemblies can support 10/40/100G or simplify migration to 40/100 G. When used with cassettes, enclosures, adapter panels, and patch cords they provide an end-to-end solution backed by our systems solution warranty

**All MPO assemblies available in Outdoor rated options, specialized jacketing, and custom pinout and breakout lengths.**



## FIBER INSERTION LOSS PERFORMANCE (dB)\*

	TYP IL	MAX IL
<b>Multimode</b> cables are tested at both wavelengths 850nm and 1300nm		
LC/SC	.20	.25
MTP®	.25	.35
Minimum Return Loss	LC/SC/MTP® -25 dB	
<b>Singlemode</b> assemblies are tested at both wavelengths 1310nm and 1550nm		
LC/SC	.20	.25
MTP®	.50	.60
Minimum Return Loss	LC/SC -65 dB (APC) LC/SC -57 dB (UPC) MTP® -60 dB	

### Features:

- 100% factory terminated and tested ensuring reliability and quality
- Standard and low loss versions available to meet loss budget requirements of the network
- 8, 12, 16, and 24F MTP® assemblies can support 10/40/100G and simplified migration to 40/100G
- Customer built to customer specifications including length, breakouts, and labeling
- All assemblies are shipped with test results and labeled with a unique serial number for traceability
- Available on method A, B, or C (12F)
- Available in fiber counts of 8-144 fibers in multimode or singlemode
- Assemblies over 100 feet are shipped on a reel
- Pulling eye available upon request

\*Consult sales for low loss values

# M P O T R U N K A S S E M B L I E S

Fiber Mode	Cable Rating	Cable Application	Cable OD	Connector A	Connector B	Fiber Count	Unit of Measure
OS-2 Singlemode (Yellow)	RI = OFNR (Riser)	I = Indoor	1.6 mm	LCD = LC Duplex	LCD = LC Duplex	1	FT
OM1 Multimode (Orange)	PI = OFNP (Plenum)	IA= Indoor Armoured	2 mm	LCS = LC Simplex	LCS = LC Simplex	2	M
OM3 Multimode (Aqua)	LZ = LSZH (Low Smoke)		3 mm	ALCD = LC/APC Duplex	ALCD = LC/APC Duplex	6	
OM4 Multimode (Aqua)				ALCS = LC/APC Simplex	ALCS = LC/APC Simplex	12	
OM5 Multimode (Lime Green)				SCD = SC Duplex	SCD = SC Duplex	24	
				ASCD = SC/APC Duplex	ASCD = SC/APC Duplex	36	
				ASCS = SC/APC Simplex	ASCS = SC/APC Simplex	48	
				MPO-12 (M)	MPO-12 (M)	72	
				MPO-12 (F)	MPO-12 (F)		
				MPO-24 (M)	MPO-24 (M)		
				MPO-24 (F)	MPO-24 (F)		
				OTHER	OTHER		

# SD1 CASSETTES



## FIBER INSERTION LOSS PERFORMANCE (dB)\*

	TYP IL	MAX IL
<b>Multimode</b> cables are tested at both wavelengths 850nm and 1300nm		
LC/SC	.20	.25
MTP®	.25	.35
Minimum Return Loss	LC/SC/MTP® -25 dB	
<b>Singlemode</b> assemblies are tested at both wavelengths 1310nm and 1550nm		
LC/SC	.20	.25
MTP®	.50	.60
Minimum Return Loss	LC/SC -65 dB (APC) LC/SC -57 dB (UPC) MTP® -60 dB	

\*Consult sales for low loss values

Series	Fiber Count	MPO Type	Cable Type	Connector
SD1	8	F = 12 Fiber Ferrule	4G = OM4 MM	LA = LC/APC
	12	X = 24 Fiber Ferrule	XG = OM3 MM	LC = LC/UPC
	24		SM = SM	SA = SC/APC

SC = SC/APC

SD1 cassettes serve as the point of interconnection between the MTP® trunks and MTP® harnesses. The cassettes breakout the MTP® to single fiber connectors and allow easy patching within the network. When used in conjunction with MTP® trunks, enclosures, adapter panels and patch cords they provide an end-to-end solution backed by our systems solution warranty.

MTP®-MTP® conversion cassettes support 40G and upward migration to 100G. 8, 12, and 24F MTP® ferrules. The conversion cassettes utilize 1x24F MTP® in and 3x8F MTP® out.

Consult sales for more information.

### Features:

- Factory terminated and tested ensuring reliability and quality
- Standard and low loss versions available to meet the loss budget requirements of the network
- Variety of single fiber interfaces including LC and SC
- 8, 12, and 24F MTP® ferrules
- Cassettes are compatible with the SD1 series accommodating up to 72 fibers in 1RU
- All adapters are secured to the cassettes eliminating possible movement of the mated pair
- LC adapters are available with an internal shutter to prevent exposure to light and excess dust build up for added protection to the eye

# ADAPTER PANELS



Adapter panels serve as the point of interconnection among MTP® trunks, MTP® harnesses and pre-terminated fiber cable assemblies. The adapter panels are part of our end-to-end solution and are backed by a 25-year warranty.

## Features:

- Variety of single fiber adapters including LC, MTP®, SC, and ST
- Adapter housing colors follow TIA/EIA-568-C.3 suggested color scheme
- Adapter panels are available 6 fiber, 8 fiber, 12 fiber, 24 fiber, 72 fiber, and 96 fiber
- All adapters are secured to the panel eliminating possible movement of the mated pair
- LC adapters available with an internal shutter to prevent exposure to light and excess dust build-up for added protection
- The single fiber adapters come with a ceramic split sleeve
- The MTP adapter is available in both opposing keyway and aligned keyway

Series	Fiber Count	Adapters	Color
SD1	8	LC	AQ = Aqua
	12	SC	BL = Blue
	24	ST	GN = Green
	72	MTP	EV = Erica Violet
	96		

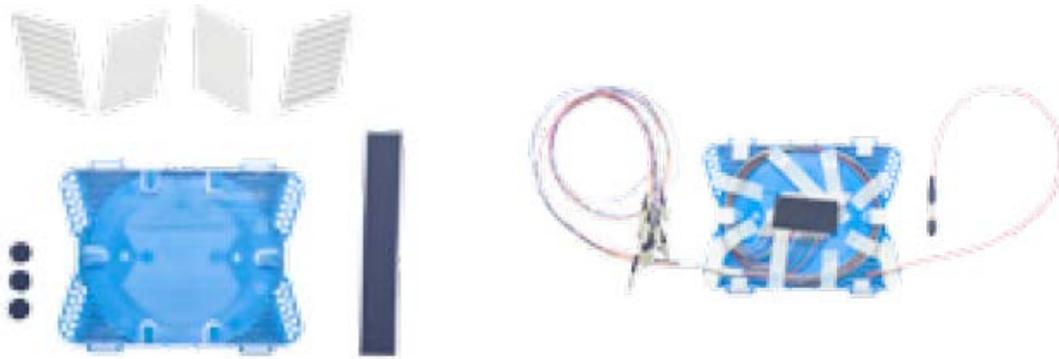


*\*Only available when using MTP®*

# S P L I C E   T R A Y S   &   H O U S I N G

## Starfighter Splice Trays

Starfighter Splice Trays are designed for use with the Multilink Starfighter series of closures. Each splice tray can accommodate single fusion, bare fusion, ribbon fusion protection sleeves and mechanical splices. Starfighter splice trays are durable to protect and hold your splice with confidence.



Part No.	Description
ACI-SPT-1120-SSTA	12 Position Aluminum (7 x 4.75 x .46 in.)
ACI-SPT-1120-SSTP	12 Position Plastic (7 x 4.75 x .46 in.)
ACI-SPT-2000-SSTA	24 Position Aluminum (12.25 x 4 x .46 in.)
ACI-SPT-3000-SSTA	24 Position Aluminum (for 3000-F only) (8.5 x 5.8 x .43 in.)
ACI-SPT-3030-SSTP	24 Position Plastic (for 3000-F and 4000-D) (8.25 x 6 x .5 in.)
ACI-SPT-4048-SSTP	Hinged Splice Tray 24 Fiber (for 4048D, F1-RS24,F1-RS72) (8.25 x 6 x .5 in.)

# S P L I C E T R A Y S & H O U S I N G

## Splice Trays

Splice trays use proven designs and fiber organization technology to provide optimum physical protection for fusion and mechanical splicing methods. The trays are engineered for use with indoor or outdoor splice hardware with both loose tube and tight-buffered optical cable designs.

The metal-tray series consists of a rugged aluminum base and cover with crimpable metal tabs for buffer tube strain-relief. Additional strain-relief points are available for securing buffer tubes or pigtails to the trays using cable ties. The black powder coating allows easy fiber identification and additional protection. Designed for use with interconnection hardware and splice closures, these splice trays are an integral part of a complete splicing system.

### Features:

- Metal trays powder coated ruggedness and durability
- Fiber loop retention Controls the bend radius positive holding action Maximum splice protection



### Part No.

### Description

ACI-CST-M67-112

Splice Tray for 24 heat-shrink fusion splices - Type 2S Long, 13.25 x 3.9 x 0.2 in.

ACI-CST-M67-081

Splice Tray for 12 heat shrink fusion splices - Type 2S, 11.7 x 3.9 x 0.2 in.

ACI-CST-M67-087

Splice Tray for 12 mechanical Camsplice splices - Type 4S, 11.7 x 3.9 x 0.4 in.

ACI-CST-M67-110

Tray for 12 heat-shrink fusion, 12 Splice Pak™ Splice Protectors or 6 heat-shrink mass fusion splices - Type 4R, 6.9 x 3.5 x 0.4 in.

# S P L I C E   T R A Y S   &   H O U S I N G

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## Wall-Mountable Splice Trays

Wall mountable splice trays provide storage and protection of fiber splices in individually accessible trays.

The front door of the housing is a work surface that can support the weight of a fusion splicer and features a lip around the door to help retain loose items. Multiple cable entry/exit locations are provided on the top and bottom and grommets prevent dust from entering the housing.

Depending on the entry location of the cables into the housing, the strain-relief bracket can be moved to a variety of positions. The design also includes universal cable clamps and provisions for mounting an optional grounding kit. The WSH can be used in conjunction with a wall-mountable connector housing (WCH) for termination. The cable entry/exit locations line up with cable entries.



Part No.	Description
ACI-CWMSH-WSH-11	Splice Tray, Heat-shrink Fusion Splices, Long, 0.2-in, 24 F, Accepts up to eleven (Type 4S, 4R or 4A) Trays
ACI-CWMSH-WSH-16	Splice Tray, mass fusion splices or heat-shrink fusion splices, 0.4-in; six mass fusion splices or 12 heat-shrink fusion splices. Accepts up to sixteen (Type 2S, 2R, or 2M) Trays

# SD1 ENCLOSURES



## PATCH

Part No.	Size
SD1-1RU	1.75 x 15 x 19 in.
Accepts (3) adapter panels or (3) cassettes	
SD1-2RU	3.5 x 15 x 19 in.
Accepts (6) adapter panels or (6) cassettes	
SD1-4RU	7 x 15 x 19 in.
Accepts (12) adapter panels or (12) cassettes	

## PATCH & SPLICE



Part No.	Size
SD1-1RU-P/S	1.75 x 15 x 19 in.
Accepts (3) adapter panels or (3) cassettes	
SD1-2RU-P/S	3.5 x 15 x 19 in.
Accepts (6) adapter panels or (6) cassettes	
SD1-4RU-P/S	7 x 15 x 19 in.
Accepts (12) adapter panels or (12) cassettes	

## SPLICE



Part No.	Size
SD1-1RU-S	1.75 x 15 x 19 in.
Accepts (3) adapter panels or (3) cassettes	
SD1-2RU-S	3.5 x 15 x 19 in.
Accepts (6) adapter panels or (6) cassettes	
SD1-4RU-S	7 x 15 x 19 in.
Accepts (12) adapter panels or (12) cassettes	

SD1 enclosures support SD1 cassettes, adapter panels, and MTP® trunks. When used in conjunction with SOURCE+ MTP trunks, adapter panels, and patch cords they provide an end-to-end solution and are included in our system solution warranty.

### Features:

- The enclosures are available in patch, patch and splice, and splice
- The enclosures can be prewired to customer specifications
- Locks available upon request
- Easy access with a slide out drawer front and rear with removable top cover
- Each enclosure can accommodate 72 fibers per rack unit: (3) adapter panels, (3) cassettes, and/or (3) splice trays per rack unit
- Available in 1RU, 2RU, and 4RU
- Includes internal fiber management
- Material: 16 gauge CRS with a black powder coat finish
- Mounts in 19 and 23 inch racks
- Standard 19 in. sliding mounting bracket allows up to 5 in. extension to a flush mount projection

# CUSTOM ENCLOSURES

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## Alliance Custom Distribution Enclosures

Standard enclosures not suitable for your needs? Alliance can design and build custom enclosures.

Alliance fiber/power to the Antenna enclosures with pre-installed components and wiring can support 3-6 remote radio heads.

Enclosures can be customized with push in terminal blocks, circuit breakers, and/or surge protection devices. Pre-mounted brackets allow easy installation on walls, poles, and towers of any shape.



# CUSTOM ENCLOSURES

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## CLEARHUB-6

The CLEARHUB-6 provides a solution for all wireless carriers using non-proprietary connections ensuring ease of future additions and network upgrades while providing a robust, watertight, and flexible distribution solution.

CLEARHUB-6 has a single inbound MPO connector for the trunk fiber connection instead of a multi-fiber LC breakout, reducing installation time, and reduces the potential for damage to the fibers.

This model is factory pre-terminated with individual quick connections for up to 12 runs of fiber, eliminating the need for a contractor to enter the module. Individual single mode jumpers are connected to the Distribution Module then to the OEM radios. Connections to the CLEARHUB distribution terminal are quick and fool-proof with the use of factory ordered fiber connectors outfitted IP67 rated quick connections. Moves, additions, or changes are simple with the addition of only a new jumper (if required). There's no need for contractors to enter the enclosure at any time to move or change jumpers.

### *Features:*

- Watertight IP67 rated distribution module
- Simple installation
- Wall, pipe, or tower mounted
- Can be customized to any type of connector
- Multiple back-to-back enclosures can be installed to service any number of sectors or radios required
- Clear cover to allow easy view of connections and extra protection from the elements



# W A L L M O U N T S



SD1 wall mount enclosures support the SD1 cassettes and adapter panels in an indoor environment.

## *Features:*

- The enclosures are available for direct termination from 6-144 fibers with lock or latch
- Material: 16 Guage CRS with a black powder coat finish\*

*\*Consult sales for patch and splice options*

## WALL MOUNTS

Part No.	Size
WALL-SD1-1	7 x 7 x 1.5 in.
Patch only accepts (1) adapter panel or (1) cassette. Up to 24 fibers.	
WALL-SD1-2	13 x 9.25 x 3.5 in.
Patch only accepts (2) adapter panels or (2) cassettes. Up to 48 fibers.	
WALL-SD1-4	13 x 11.5 x 3.5 in.
Patch only accepts (4) adapter panels or (4) cassettes. Up to 96 fibers.	
WALL-SD1-8	17 x 12 x 5.87 in.
Patch only accepts (8) adapter panels or (8) cassettes. Up to 192 fibers.	
WALL-SD1-12	17 x 16 x 5.87 in.
Patch only accepts (12) adapter panels or (12) cassettes. Up to 192 fibers.	

# HD1 SERIES

HD1 series can accommodate 25% more fiber in a 1RU than our standard SD1 series.

These components are designed to work with SOURCE MTP® cable assemblies and patch cords for a complete high density solution supporting 10/40/100G.

Series	Fiber Count	Adapters	Color
HD1	8	LC	AQ = Aqua
SD1	12	SC	BL = Blue
	24	ST	GN = Green
	72	MTP	
	96		

## Adapter Panels:

- The adapter panels are available in a variety of fiber adapters, including LC and MTP® adapters supporting Base-8, 12, and 24 backbones, as well as multifiber solutions
- All adapter panels are secured to the panels eliminating possible movement of the mated pair
- LC adapters come with an internal shutter to prevent dust



## FIBER TRAYS

Part No.	Size
HD1-1RU-PNL	1.75 x 19 x 7 in.
Accepts 4 HD adapter panels or 4 HD cassettes.	
HD1-2RU-PNL	3.5 x 19 x 7 in.
Accepts 8 HD adapter panels or 8 HD cassettes.	

## Fiber Trays:

- HD1 rack mount fiber trays support HD1 cassettes and adapter panels
- Fiber trays are available in both 1RU and 2RU accommodating up to 96 fiber per 1RU
- Each fiber panel comes with a bracket to tie down and route the backbone cable

# HD1 SERIES

## FIBER INSERTION LOSS PERFORMANCE (dB)\*

	TYP IL	MAX IL
<b>Multimode</b> cables are tested at both wavelengths 850nm and 1300nm		
LC/SC	.20	.25
MTP®	.25	.35
Minimum Return Loss	LC/SC/MTP® -25 dB	
<b>Singlemode</b> assemblies are tested at both wavelengths 1310nm and 1550nm		
LC/SC	.20	.25
MTP®	.50	.60
Minimum Return Loss	LC/SC -65 dB (APC) LC/SC -57 dB (UPC) MTP® -60 dB	

\*Consult sales for low loss values

## Cassettes:

- The HD1 cassettes are available with an LC interface supporting Base-8, 12, and 24 fiber in a variety of fiber types including OM3, OM4, and OS2
- In addition to supporting 10/40/100G the cassettes are also available with an SC or ST interface
- All adapters are secured to the cassette, eliminating possible movement of the mated pair
- The LC adapters are available with an internal shutter to prevent dust
- The cassettes are available in both standard and low loss to support maximum distances required by the 10/100G Ethernet loss budget

Series	Fiber Count	MRO Type	CableType	Connector
HD1	8	F = 12 Fiber Ferrule	4G = OM4 MM	LA = LC/APC
	12	X = 24 Fiber Ferrule	XG = OM3 MM	LC = LC/UPC
	24		SM = SM	SA = SC/APC
	96			SC = SC/APC

# COPPER TRUNKS & BUNDLED ASSEMBLIES



Alliance pre-terminated end-to-end copper solution is designed to be user friendly, cost-effective, and easy to install. This end-to-end system supports a customized CAT6/6A solution backed by our warranty.

### Features:

- Reduces labor and installation time
- Less scrap and waste
- Reliability
- Factory terminated and tested ensuring reliability and quality
- Product consistency
- Built to customer specification



Alliance copper bundles are the backbone of the pre-terminated copper solution. When used in conjunction with patch panels, patch cords, and work stations they provide an end-to-end solution backed by our system warranty.

### Features:

- Factory terminated and tested ensuring reliability and quality
- Custom built to customer specifications including length, breakouts, and labeling.
- Bundles can be terminated to plugs (male) or jacks (female) in groups of 6 to 24 with tie wraps/velcor or under a braided sleeve.
- Available in Riser or Plenum in a variety of colors for both the sleeving and the cable.

Cable Count	Cable Rating	Jacket Rating	Connectors	Color	Length
6	C6 = Standard CAT6	P = Plenum	M = RJ45 Plug	BL	Length in feet
12	C6A = CAT6A		F = RJ45 Jack		
24					

# C O P P E R P A T C H C O R D S



*\*Not all colors are available in Economy Series*

Copper patch cords support a variety of applications from voice and video to high speed networks and POE. All copper cables are manufactured to your custom requirements and meet or exceed industry standards for NEXT and return loss.

Our cords are factory terminated for superior performance guaranteeing consistent reliable results

### Features:

- Available in CAT5E, CAT6, CAT6A, CAT 7 shielded and unshielded, riser, plenum, and LSZH in your choice of length
- Available in U.S. Made and Economy Series
- Industry standard T-568A, T568-B, crossover or custom wiring available
- Options for non-booted or variations of boots (snagless) available

Boot Option	Cable Rating	Fixed Note	Additional Options	Color	Length
C = Clear Slimline Boot	SE = CAT5E	B	MP = Minipatch	AQ = Aqua	Length in feet
S = Bubble Boot	6 = CAT6		SH = Shielded	BK = Black	
Blank = No Boot	6A = CAT6A		Blanks = Standard	BL = Blue	
				BN = Brown	
				GN = Green	
				GY = Grey	
				LG - Lime Green	
				OR = Orange	
				PK = Pink	
				RD = Red	
				WH = White	
				YL = Yellow	

# C O P P E R P A T C H C O R D S

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When used in conjunction with copper trunks, patch panels, and work station they provide an end-to-end solution backed by a system warranty.

Made in the USA with high quality components, these cables are available in CAT5E, CAT6, CAT6A, and CAT 7 using 24 AWG stranded patch cable and high quality RJ45 modular plugs.

Patch cords are available in many different colors and can be built using no boots, slide-on boots, or clear slimline boots.

Also available in shielded stranded 26 AWG STP cable.

# CABLE ASSEMBLIES FOR INDUSTRIAL, TRANSPORTATION, AND UTILITY MARKETS

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## MARKETS WE SERVE

### Industrial Automation

Our wire harness assemblies provide robust solutions for industrial control systems, ensuring stable power transmission and signal integrity in complex environments.

### Medical Equipment

Our engineering teams integrate specialized components to develop bio-sensitive wiring solutions for medical devices, enhancing patient safety and device reliability.

### Telecommunications

We manufacture harness assemblies for diverse telecommunications applications, from underground cabling to satellite communication systems, ensuring uninterrupted connectivity.

### Defense and Aerospace

Our wire harness solutions meet military-grade specifications, providing resilience against extreme conditions with materials like Kevlar shielding for added protection.

### Energy and Transportation

We supply high-performance cable assemblies for the energy sector and transportation infrastructure, addressing the unique needs of renewable energy systems, railways, and automotive applications.

## COMPREHENSIVE WIRE HARNESS SOLUTIONS

### Precision Engineering for Reliable Connectivity

Wire harness assemblies serve as the backbone of electrical and data systems, effectively organizing and securing cables for optimal performance. Our assemblies are designed using industry-leading materials, including PVC coatings, split loom tubing, and specialized sleeving, to enhance durability and safety.

# CABLE ASSEMBLIES FOR INDUSTRIAL, TRANSPORTATION, AND UTILITY MARKETS

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## Industry-Certified Manufacturing Standards

We adhere to strict quality guidelines, including the IPC/WHMA-A-620 standard, which governs wire harness manufacturing best practices. This standard ensures compliance with rigorous quality control measures, covering aspects such as soldering, crimping, stripping, and wire securing techniques.

## Superior Materials and Components

To guarantee performance and longevity, we incorporate premium materials into our wire harness designs, including:

- Teflon and Kevlar for enhanced abrasion resistance
- UL-certified cables to ensure safety and compliance
- Heat-resistant and moisture-proof insulation for harsh environments

These materials make our assemblies ideal for sensitive applications, including intensive care units, aerospace environments, and high-speed data transmission networks.

## M12 CABLE ASSEMBLIES FOR INDUSTRIAL AND TRANSPORTATION APPLICATIONS

### Versatile Connectivity Across Industries

Our M12 cable assemblies support a wide range of applications, including:

- Transportation and railway networks
- Factory automation and robotics
- Material handling systems
- Process control and industrial machinery

### M8/M12 Shielded and Unshielded Assemblies

Our M8 and M12 cable assemblies offer superior electromagnetic shielding and mechanical protection, ensuring reliable performance in industrial environments. With IP67-rated waterproofing and UV-resistant materials, these assemblies withstand extreme conditions while maintaining consistent operation.

# CABLE ASSEMBLIES FOR INDUSTRIAL, TRANSPORTATION, AND UTILITY MARKETS

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## Key Features of M12 Connectors

To meet industry demands, we offer a variety of M12 connector configurations, including:

1. **A-Coded Connectors** – Ideal for sensors and actuators.
2. **B-Coded Connectors** – Optimized for high-speed data networks.
3. **C-Coded Connectors** – Designed for AC-powered devices.
4. **D-Coded Connectors** – Suitable for Ethernet applications up to 100 Mbps.
5. **X-Coded Connectors** – Capable of supporting data speeds up to 1 Gbps.

## CUSTOM CABLE ASSEMBLY AND MANUFACTURING PROCESS

### Design and Engineering

Each project begins with a collaborative discussion to understand environmental conditions and performance requirements. Our team develops customized solutions that account for installation constraints, durability, and safety factors.

### Prototyping and Testing

Through rigorous testing and iterative prototyping, we refine our cable assemblies to maximize efficiency and reliability. Our in-house testing facilities replicate real-world conditions to eliminate potential failures before deployment.

### Production and Quality Assurance

Utilizing advanced manufacturing techniques, including automated assembly processes, we ensure each wire harness meets industry standards. Our stringent quality control protocols include:

- Crimp and solder joint inspections
- Wire gauge and continuity testing
- Environmental resistance assessments
- Mechanical durability evaluations

# CABLE ASSEMBLIES FOR INDUSTRIAL, TRANSPORTATION, AND UTILITY MARKETS

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## ETHERNET CABLING SOLUTIONS FOR SMART INDUSTRIES

### High-Performance Ethernet Assemblies

Our industrial-grade Ethernet cables provide:

- Shielded protection against electromagnetic interference (EMI)
- Durability against vibration, mechanical stress, and exposure to harsh environments
- Flame-retardant materials for enhanced safety

### Smart Factory Integration

Our Ethernet solutions support Industry 4.0 and IIoT (Industrial Internet of Things) initiatives, delivering real-time data exchange capabilities essential for automation and intelligent infrastructure.

### Why Choose Our Cable Assemblies?

- **Industry Expertise:** Decades of experience in manufacturing custom cable solutions.
- **Rigorous Quality Control:** Compliance with IPC, UL, and MIL-Spec standards.
- **Customizable Solutions:** Tailored designs for specific industry needs.
- **Rapid Deployment:** Pre-configured assemblies for quick installation and reduced downtime

### Conclusion

Alliance is committed to delivering high-performance cable assemblies that meet the demands of industrial, transportation, and utility markets. Our innovative designs, stringent testing procedures, and high-quality materials ensure optimal performance, reliability, and durability. Contact us today to learn how our custom cable solutions can support your operational requirements.



## **CONTACT US TODAY!**

Do you see any products that interest you in this catalog? Call Alliance today or visit our website to learn more!

**1.888.821.4797**

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