



# Data Center Products





## 25 Year System Performance Coverage\*

We are confident that your AMP NETCONNECT cabling system will keep performing to current TIA/EIA industry standards. If the registered system ever fails to meet those standards within 25 years of the date of installation, we'll provide the reasonable parts and labor to replace or repair the AMP NETCONNECT product.\*



## 25 Year Component Coverage\*

TE Connectivity also offers a 25 Year Component Warranty to protect individual AMP NETCONNECT cabling system components. If a component fails within 25 years of the date of installation, we'll provide the reasonable parts to replace or repair the registered AMP NETCONNECT product.\*

### It's Standard Equipment

This coverage is automatically part of the package when\*:

- AMP NETCONNECT products are specified end-to-end
- A TE Connectivity authorized NETCONNECT Design & Installation (ND&I) contractor registers the network project with TE Connectivity
- That ND&I performs the actual installation in accordance with TE Connectivity requirements

### Who's Covered

Unlike most systems suppliers, TE Connectivity provides warranty coverage directly to the end user. Many suppliers provide coverage to the installers, who then provide coverage to the customer. But with TE Connectivity warranties, there are no middlemen. The warranties are between you and TE Connectivity.

For more information, please visit: <http://www.te.com/aboutus/pdf/tc.pdf>

Or call: 1-800-553-0938

Outside the U.S., please contact your local AMP NETCONNECT product sales office.

## People & Products to Answer the Cabling Challenge.

Cabling a retail store, casino or office building can be complex. Yet the solution for productive connectivity and cable management can be as simple as talking to the right people—the AMP NETCONNECT business unit of TE Connectivity.

The reason is what we bring to the building infrastructure challenges you face. In-depth technical knowledge and expertise from decades of experience. Innovative technologies from ongoing R&D. And quality products for every power, data, voice and video networking need. One of the broadest lines in the industry, in fact.

Additionally, it's what we do to answer the challenge: develop and deliver integrated, made-to-order solutions that optimize network performance, increase productivity and produce more immediate return-on-investment.

And it's not just providing technology. It's making sure solutions are efficiently and effectively installed: working with distributors and customers so products are delivered when and where you need them. And maintaining a global network of certified installation contractors.

It all means, simply, that AMP NETCONNECT cabling systems provide the answers you're looking for: the whole solution for any cabling challenge—from the ground up.

\*Conditions apply. AMP NETCONNECT Home Net-Works Systems qualify for a 25 year component warranty only. For more information, please visit [www.ampnetconnect.com](http://www.ampnetconnect.com) or call 1-800-553-0938. Outside the U.S., please contact your local AMP NETCONNECT product sales office.



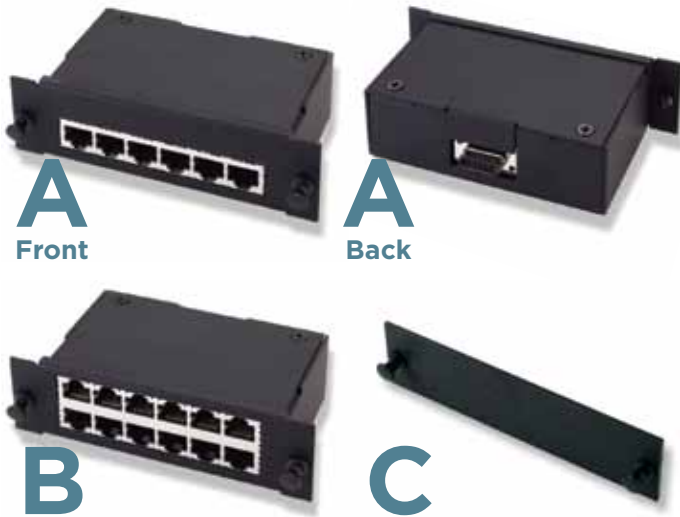
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## MRJ21 Cassettes

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- High-performance copper cabling solution
- High-density, small form factor connectivity
- Factory terminated and tested
- Modular, pluggable design
- 6-Port cassettes support applications which use four or fewer pairs including 10BASE-T, 100BASE-T and 1000BASE-T
- 12-Port cassettes support applications which use two or fewer pairs including 10BASE-T, and 100BASE-T
- Blank adapter plate for MRJ21 (1479451-1) panel only – Do not use 1777046-1 with optical fiber enclosures

Description	Port Count	Applications	Active Pairs Per Port	Figure	MRJ21 Connections (Back)	Part Number
Cassette	6	10/100/1000BASE-T	4	A	1	1479459-1
	12	10/100BASE-T	2	B	1	1479452-1
Blank	-	-	-	C	-	1777046-1

## MRJ21 Cassette Panel



- Accepts up to three (3) MRJ21 cassettes

Description	Accepts	Part Number
MRJ21 Cassette Panel	3 MRJ21 Cassettes	1479451-1

## Cable Support Bars



- Mounts to the back of 19 inch racks
- Designed to provide additional cable support and routing control behind 19 inch racks and panels
- MRJ21 slotted manager bar for easy tie down
- Horizontal and vertical mounting option for MRJ21 tie down bar

Description	Depth	Figure	Part Number
Standard Support Bar	5"	A	557548-1
	6"	B	1933352-1
MRJ21 Cable Manager Bar	9"		1933352-2
	12"		1933352-3
	16"		1933352-4

## MRJ21 Patch Panels



- High-performance copper cabling solution
- High-density, small form factor connectivity
- Factory terminated and tested
- Modular, pluggable design
- 4-Pair MRJ21 Patch Panels support applications which use four or fewer pairs including 10BASE-T, 100BASE-T and 1000BASE-T
- 2-Pair MRJ21 Patch Panels support applications which use two or fewer pairs including 10BASE-T, and 100BASE-T



Description	Port Count	Applications	MRJ21 Connections (Back)	Footprint	Figure	Non-AMPTRAC	AMPTRAC Enabled
MRJ21 Patch Panels, 1U	24	10/100/1000BASE-T	4	Standard	A	1777029-1	1777029-2
	48	10/100/1000BASE-T	8	Standard	B	1435971-1	1777041-1
		10/100BASE-T	4	Angled	C	1777052-1	1777053-1
				Standard		1435965-1	1777042-1

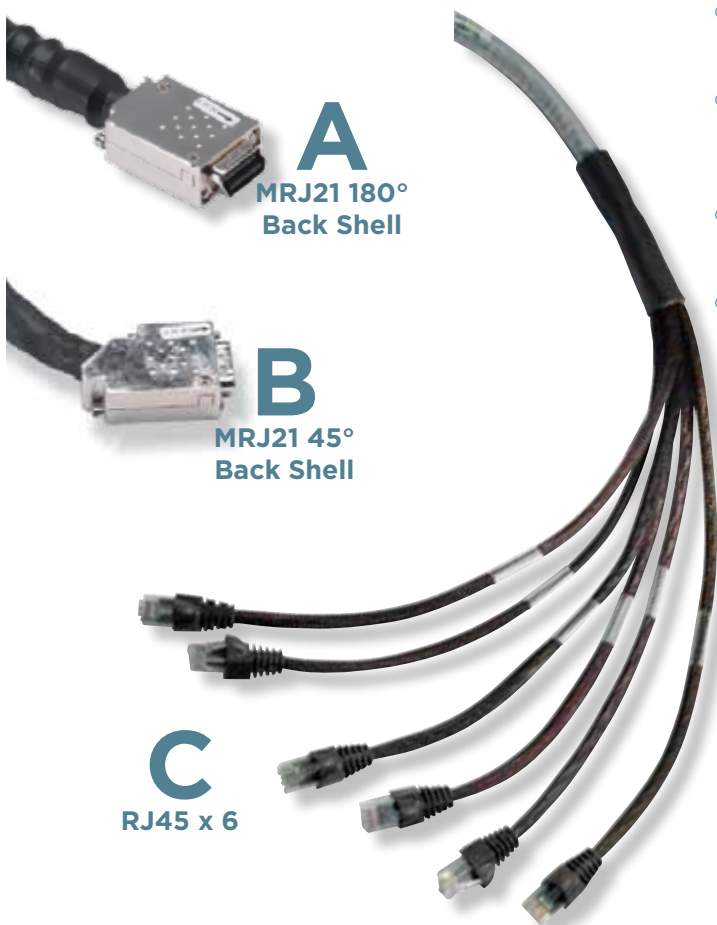
## MRJ21 Label Holder Panels and Labels



Description	Footprint	Figure	Part Number	
Label Holder Panel (Labels Sold Separately)	Standard	A	1777040-1	
	Angled		1777054-1	
Label Sheet			<b>Color</b>	
			<b>5 Sheets/Pack (Labels for 22 Panels)</b>	
			<b>100 Sheets/Pack (Labels for 450 Panels)</b>	
		White	1375354-1	5-1375354-1
		Blue	1375354-2	5-1375354-2
		Green	1375354-3	5-1375354-3
		Purple	1375354-4	5-1375354-4
		Red	1375354-5	5-1375354-5
		Brown	1375354-6	5-1375354-6
	Yellow	1375354-7	5-1375354-7	
	Orange	1375354-8	5-1375354-8	
	Gray	1375354-9	5-1375354-9	

## MRJ21 Cable Assemblies

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**A**  
MRJ21 180°  
Back Shell

**B**  
MRJ21 45°  
Back Shell

**C**  
RJ45 x 6

- MRJ21 cable assemblies' small foot print reduces cable bulk in pathways and conduits
- Reduced cable bulk allows better air circulation and equipment cooling in data centers
- Approximately 30% less area and 20% less weight than 4-pair cabling
- Dense CHAMP connector style double blade design with offset jackscrews
- Contact layout and footprint for differential pairs creates reduced cross-talk and built in compensation
- 1.5 to 4 times the port density of 2x6 Stacked Modular Jack (RJ45)
- Jackscrews for positive latching and secure cable retention
- Common and additional cable assembly lengths are available - contact your local sales engineer for more information
- 25-Pair, unshielded, 24 AWG conductors
- Enables 25% less power per port than 4-pair connector on active electronics
- Improves uptime and space efficiency on site
- RoHS compliant
- MRJ21 to RJ45 hydra cable assemblies are wired so that all 4 pairs of the RJ45 are active for Gigabit Ethernet
- Most assemblies are available with riser rated (CMR) or plenum rated (CMP) jacketing
- Simple installation – just seat the connector and tighten the two screws
- Factory terminated, tested and serialized

### End 1 to End 2

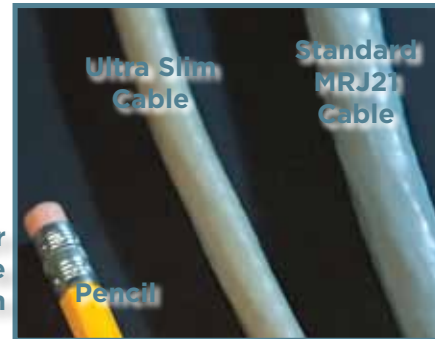
Length m [ft]	A to A CMR	A to A CMP	A to B CMR	A to B CMP	A to C CMR	A to C CMP	B to C CMR
	Grey Jacket	Blue Jacket	Grey Jacket	Blue Jacket	Grey Jacket	Blue Jacket	Grey Jacket
1 m [3.28 ft]	1499515-1	1499518-1	1499517-1	1933061-1	1499520-1	1933056-1	1499508-1
2 m [6.56 ft]	1499515-2	1499518-2	1499517-2	1933061-2	1499520-2	1933056-2	1499508-2
3 m [9.84 ft]	1499515-3	1499518-3	1499517-3	1933061-3	1499520-3	1933056-3	1499508-3
4 m [13.12 ft]	1499515-4	1499518-4	1499517-4	1933061-4	1499520-4	1933056-4	1499508-4
5 m [16.40 ft]	1499515-5	1499518-5	1499517-5	1933061-5	1499520-5	1933056-5	1499508-5
6 m [19.68 ft]	1499515-6	1499518-6	1499517-6	1933061-6	1499520-6	1933056-6	1499508-6
7 m [22.97 ft]	1499515-7	1499518-7	1499517-7	1933061-7	1499520-7	1933056-7	1499508-7
8 m [26.25 ft]	1499515-8	1499518-8	1499517-8	1933061-8	1499520-8	1933056-8	1499508-8
9 m [29.53 ft]	1499515-9	1499518-9	1499517-9	1933061-9	1499520-9	1933056-9	1499508-9
10 m [32.81 ft]	1-1499515-0	1-1499518-0	1-1499517-0	1-1933061-0	1-1499520-0	1-1933056-0	1-1499508-0
12 m [39.37 ft]	1-1499515-2	1-1499518-2	1-1499517-2	1-1933061-2	1-1499520-2	1-1933056-2	1-1499508-2
15 m [49.21 ft]	1-1499515-5	1-1499518-5	1-1499517-5	1-1933061-5	1-1499520-5	1-1933056-5	1-1499508-5
17 m [55.77 ft]	1-1499515-7	1-1499518-7	1-1499517-7	1-1933061-7	1-1499520-7	1-1933056-7	1-1499508-7
20 m [65.62 ft]	2-1499515-0	2-1499518-0	2-1499517-0	2-1933061-0	2-1499520-0	2-1933056-0	2-1499508-0
25 m [82.02 ft]	2-1499515-5	2-1499518-5	2-1499517-5	2-1933061-5	2-1499520-5	2-1933056-5	2-1499508-5
30 m [98.42 ft]	3-1499515-0	3-1499518-0	3-1499517-0	3-1933061-0	3-1499520-0	3-1933056-0	3-1499508-0
35 m [114.83 ft]	3-1499515-5	3-1499518-5	3-1499517-5	3-1933061-5	3-1499520-5	3-1933056-5	3-1499508-5
40 m [131.23 ft]	4-1499515-0	4-1499518-0	4-1499517-0	4-1933061-0	4-1499520-0	4-1933056-0	4-1499508-0
50 m [164.04 ft]	5-1499515-0	5-1499518-0	5-1499517-0	5-1933061-0	5-1499520-0	5-1933056-0	5-1499508-0
60 m [196.85 ft]	6-1499515-0	6-1499518-0	6-1499517-0	6-1933061-0	6-1499520-0	6-1933056-0	6-1499508-0
70 m [229.66 ft]	7-1499515-0	7-1499518-0	7-1499517-0	7-1933061-0	7-1499520-0	7-1933056-0	7-1499508-0
80 m [262.47 ft]	8-1499515-0	8-1499518-0	8-1499517-0	8-1933061-0	8-1499520-0	8-1933056-0	8-1499508-0
90 m [295.27 ft]	9-1499515-0	9-1499518-0	9-1499517-0	9-1933061-0	9-1499520-0	9-1933056-0	9-1499508-0

## MRJ21 Ultra Slim Cable Assemblies



- Uses same connector and jackscrew design as Standard MRJ21 connectors
- Common and additional cable assembly lengths are available - contact your local sales engineer for more information
- Enables 25% less power per port than 4 pair connector on active electronics
- Improves uptime and space efficiency on site
- 50-60% less cable mass in pathways and spaces than comparable 4-pair cabling
- Improves airflow in cabinets and around active electronics
- 40% less weight than comparable 4-pair cabling
- Gigabit Ethernet Channel performance
- Application length restrictions apply. Consult local SE or [ampnetconnect.com](http://ampnetconnect.com) for more information
- RoHS compliant

0.365 inch [9.2 mm], 24-pair MRJ21 Ultra Slim Cable Size Comparison



Description	Rating	Jacket Color	Length	Part Number
MRJ21 Ultra Slim, 180° Back Shell	CMR (Riser)	Gray	2 m [6.56 ft]	1933960-2
			3 m [9.84 ft]	1933960-3
			4 m [13.12 ft]	1933960-4
			5 m [16.40 ft]	1933960-5
			6 m [19.68 ft]	1933960-6
			7 m [22.97 ft]	1933960-7
			8 m [26.25 ft]	1933960-8
			9 m [29.53 ft]	1933960-9
			10 m [32.81 ft]	1-1933960-0
			12 m [39.37 ft]	1-1933960-2
			15 m [49.21 ft]	1-1933960-5
			17 m [55.77 ft]	1-1933960-7
		20 m [65.62 ft]	2-1933960-0	

## Sigma-Link Cat6 UTP Cable Assemblies



- Meets or exceeds component performance requirements of TIA/EIA-568-C.2
- Six bundled 4-pair, solid conductor, riser (CMR) rated, Category 6 UTP cables
- Available in three configurations:
  - Cassette-to-cassette
  - Cassette-to-plug
  - Cassette-to-terminated/ open
- Each cassette houses six Category 6 SL Series modular jacks, wired with all 4-pairs active
- Other lengths available, see customer drawing for details

Assembly	End A	End B	Available Lengths									
			7 – 25 ft (1 ft Increments)		26 – 64 ft (2 ft Increments)		75 – 95 (10 ft Increments)		105 – 195 (10 ft Increments)		205 – 295 ft (10 ft Increments)	
			7 ft	25 ft	26 ft	64 ft	75 ft	95 ft	105 ft	195 ft	205 ft	295 ft
Cassette	Cassette		2111290-7	2-2111290-5	2-2111290-6	6-2111290-4	7-2111290-5	9-2111290-5	2111291-5	9-2111291-5	2111292-5	9-2111292-5
	Plug		2111300-7	2-2111300-5	2-2111300-6	6-2111300-4	7-2111300-5	9-2111300-5	2111301-5	9-2111301-5	2111302-5	9-2111302-5
	Open		2111310-7	2-2111310-5	2-2111310-6	6-2111310-4	7-2111310-5	9-2111310-5	2111311-5	9-2111311-5	2111312-5	9-2111312-5

NOTE: Use beginning and end lengths and indicated increments to determine dash numbers for part numbers listed above. See customer drawings for a full list of part numbers



## Sigma-Link Cat6A F/UTP Cable Assemblies

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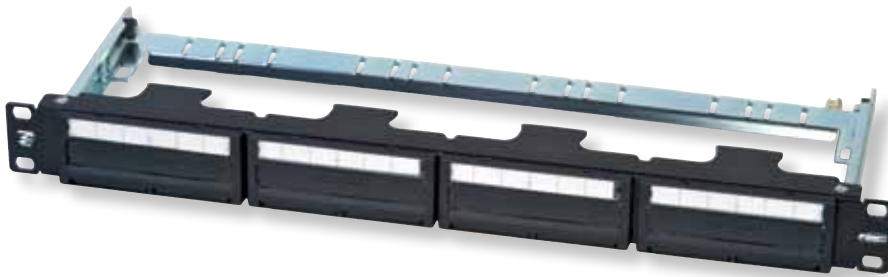


- Meets or exceeds component performance requirements of TIA/EIA-568-C.2
- Six bundled 4-pair, solid conductor, riser (CMR) rated, Category 6A F/UTP cables
- Available in three configurations:
  - Cassette-to-cassette
  - Cassette-to-plug
  - Cassette-to-unterminated/open
- Each cassette houses six Category 6A AMP-TWIST modular jacks, wired with all 4-pairs active
- Other lengths available, see customer drawing for details

Assembly		Available Lengths									
End A	End B	7 – 25 ft (1 ft Increments)		26 – 64 ft (2 ft Increments)		75 – 95 ft (10 ft Increments)		105 – 195 ft (10 ft Increments)		205 – 295 ft (10 ft Increments)	
		7 ft	25 ft	26 ft	64 ft	75 ft	95 ft	105 ft	195 ft	205 ft	295 ft
Cassette	Cassette	2111250-7	2-2111250-5	2-2111250-6	6-2111250-4	7-2111250-5	9-2111250-5	2111251-5	9-2111251-5	2111252-5	9-2111252-5
	Plug	2111270-7	2-2111270-5	2-2111270-6	6-2111270-4	7-2111270-5	9-2111270-5	2111271-5	9-2111271-5	2111272-5	9-2111272-5
	Open	2111280-7	2-2111280-5	2-2111280-6	6-2111280-4	7-2111280-5	9-2111280-5	2111281-5	9-2111281-5	2111282-5	9-2111282-5

NOTE: Use beginning and end lengths and indicated increments to determine dash numbers for part numbers listed above. See customer drawings for a full list of part numbers

## Sigma-Link Patch Panel



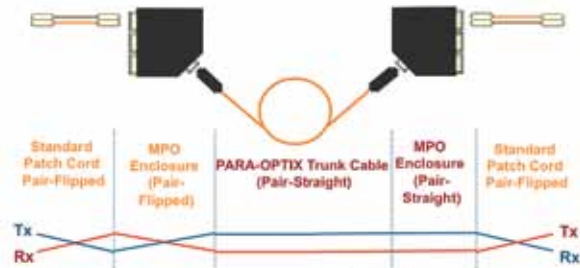
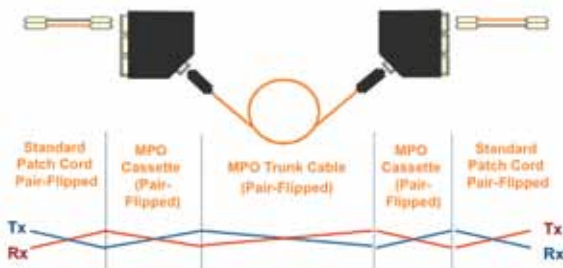
- 19-inch unloaded panel accommodates four Sigma-Link cassettes
- Features integrated cable management bar

Description	Part Number
AMP Sigma-Link Patch Panel, 1U H, 19 in W, Standard (Flush) Footprint	1-1671215-1

## PARA-OPTIX Products

### System Polarity with MPO Pair-Flipped AB/BA Trunk Cable

### System Polarity with PARA-OPTIX Pair-Straight AB/AB Trunk Cable





## PARA-OPTIX Backbone Enclosure Kit



- One of each enclosure is included as required to maintain polarity (see polarity diagram)
- 1U high rack mounted enclosures
- Pre-tested and ready for installation
- Built-in cable management
- High density saves space and installation time
- Each enclosure provides 36 XG OM3 duplex LC ports
- Each enclosure accepts a single 72 fiber PARA-OPTIX MPO-style cable assembly – one connector for all 36 duplex ports
- Use label sheets 1375354 (see Chapter 17)
- Compatible with ground lug kit 556438 (see Chapter 15), rear cable management 556561 (see Chapter 15) and XG OM3 LC duplex cable assemblies (see Chapter 07)

Description	Duplex Fiber Ports	Fiber Count	PARA-OPTIX MPO Connectors on Back	Polarity of Included Enclosures	Part Numbers
PARA-OPTIX Rack Mount Enclosure kit	36	72	1	Pair-Straight (AB/AB) Pair-Flipped (AB/BA)	1919547-1

## PARA-OPTIX MPO-style Trunk Cable Assembly



- 72 XG OM3 fibers in a single PARA-OPTIX MPO-style connector
- Assemblies are made from XG OM3 cable with a diameter of approximately 8 mm
- Pulling socks protect PARA-OPTIX connectors during installation
- Factory terminated and tested – shipped ready for installation
- Trunk cable assemblies must be connected between one pair-flipped (AB/BA) and one pair-straight (AB/AB) enclosure (see polarity diagram)

Description	Fiber Type	UL/NEC Rating	Jacket Color	Length	Part Number
72 Fiber Trunk Assembly, Pair-Straight AB/AB	XG OM3	Plenum (OFNP)	Aqua	10 ft [3.05 m]	1919505-1
				20 ft [6.10 m]	1919505-2
				30 ft [9.14 m]	1919505-3
				40 ft [12.19 m]	1919505-4
				50 ft [15.24 m]	1919505-5
				60 ft [18.29 m]	1919505-6
				70 ft [21.34 m]	1919505-7
				80 ft [24.38 m]	1919505-8
				90 ft [27.43 m]	1919505-9
				100 ft [30.48 m]	1-1919505-0
				110 ft [33.53 m]	1-1919505-1
				120 ft [36.58 m]	1-1919505-2
				130 ft [39.62 m]	1-1919505-3
				140 ft [42.67 m]	1-1919505-4
				150 ft [45.72 m]	1-1919505-5
				160 ft [48.77 m]	1-1919505-6
				170 ft [51.82 m]	1-1919505-7
				180 ft [54.86 m]	1-1919505-8
				190 ft [57.91 m]	1-1919505-9
				200 ft [60.96 m]	2-1919505-0
				210 ft [64.00 m]	2-1919505-1
				220 ft [67.06 m]	2-1919505-2
				230 ft [70.10 m]	2-1919505-3
				240 ft [73.15 m]	2-1919505-4
				250 ft [76.20 m]	2-1919505-5
				260 ft [79.25 m]	2-1919505-6
				270 ft [82.30 m]	2-1919505-7
				280 ft [85.34 m]	2-1919505-8
				290 ft [88.39 m]	2-1919505-9
				300 ft [91.44 m]	3-1919505-0

## MPO Trunk Cable Assemblies



MPO Cable Assembly with Pulling Socks



- Trunk cable assemblies fiber polarity is Pair-Flipped AB/BA (see polarity diagram this chapter)
- Trunk cables with Pair-Straight AB/AB polarity are available
- Pulling socks protect MPO connectors during installation
- Twelve (12) fibers per MPO connector
- MPO cable assemblies come pre-tested and ready for installation
- 12 and 24 fiber MPO trunk cable assemblies:
- Meet or exceed the requirements of GR-409-CORE
- Are Riser (OFNR) and Plenum (OFNP) rated
- Plenum cables can be used in riser spaces
- Custom fiber counts and lengths are available
- Jacket Color:
  - 62.5 μm OM1 and 50 μm OM2 multimode – orange jacket
  - XG OM3, XG OM4 multimode: – aqua jacket
  - Singlemode – yellow jacket

### MPO Trunk Cable Assemblies, 12-Fiber, Pair-flipped (AB/BA), Riser/ Plenum (OFNR/OFNP)

Length	62.5 μm OM1 Multimode	50 μm OM2 Multimode	XG OM3 Multimode	XG OM4 Multimode	Singlemode
10 ft [3.05 m]	6435024-1	6435028-1	1907404-1	1553444-1	6435070-1
20 ft [6.10 m]	6435024-2	6435028-2	1907404-2	1553444-2	6435070-2
30 ft [9.14 m]	6435024-3	6435028-3	1907404-3	1553444-3	6435070-3
40 ft [12.19 m]	6435024-4	6435028-4	1907404-4	1553444-4	6435070-4
50 ft [15.24 m]	6435024-5	6435028-5	1907404-5	1553444-5	6435070-5
60 ft [18.29 m]	6435024-6	6435028-6	1907404-6	1553444-6	6435070-6
70 ft [21.34 m]	6435024-7	6435028-7	1907404-7	1553444-7	6435070-7
80 ft [24.38 m]	6435024-8	6435028-8	1907404-8	1553444-8	6435070-8
90 ft [27.43 m]	6435024-9	6435028-9	1907404-9	1553444-9	6435070-9
100 ft [30.48 m]	1-6435024-0	1-6435028-0	1-1907404-0	1-1553444-0	1-6435070-0
110 ft [33.53 m]	1-6435024-1	1-6435028-1	1-1907404-1	1-1553444-1	1-6435070-1
120 ft [36.58 m]	1-6435024-2	1-6435028-2	1-1907404-2	1-1553444-2	1-6435070-2
130 ft [39.62 m]	1-6435024-3	1-6435028-3	1-1907404-3	1-1553444-3	1-6435070-3
140 ft [42.67 m]	1-6435024-4	1-6435028-4	1-1907404-4	1-1553444-4	1-6435070-4
150 ft [45.72 m]	1-6435024-5	1-6435028-5	1-1907404-5	1-1553444-5	1-6435070-5
160 ft [48.77 m]	1-6435024-6	1-6435028-6	1-1907404-6	1-1553444-6	1-6435070-6
170 ft [51.82 m]	1-6435024-7	1-6435028-7	1-1907404-7	1-1553444-7	1-6435070-7
180 ft [54.86 m]	1-6435024-8	1-6435028-8	1-1907404-8	1-1553444-8	1-6435070-8
190 ft [57.91 m]	1-6435024-9	1-6435028-9	1-1907404-9	1-1553444-9	1-6435070-9
200 ft [60.96 m]	2-6435024-0	2-6435028-0	2-1907404-0	2-1553444-0	2-6435070-0
210 ft [64.00 m]	2-6435024-1	2-6435028-1	2-1907404-1	2-1553444-1	2-6435070-1
220 ft [67.06 m]	2-6435024-2	2-6435028-2	2-1907404-2	2-1553444-2	2-6435070-2
230 ft [70.10 m]	2-6435024-3	2-6435028-3	2-1907404-3	2-1553444-3	2-6435070-3
240 ft [73.15 m]	2-6435024-4	2-6435028-4	2-1907404-4	2-1553444-4	2-6435070-4
250 ft [76.20 m]	2-6435024-5	2-6435028-5	2-1907404-5	2-1553444-5	2-6435070-5
260 ft [79.25 m]	2-6435024-6	2-6435028-6	2-1907404-6	2-1553444-6	2-6435070-6
270 ft [82.30 m]	2-6435024-7	2-6435028-7	2-1907404-7	2-1553444-7	2-6435070-7
280 ft [85.34 m]	2-6435024-8	2-6435028-8	2-1907404-8	2-1553444-8	2-6435070-8
290 ft [88.39 m]	2-6435024-9	2-6435028-9	2-1907404-9	2-1553444-9	2-6435070-9
300 ft [91.44 m]	3-6435024-0	3-6435028-0	3-1907404-0	3-1553444-0	3-6435070-0

### MPO Trunk Cable Assemblies, 24-Fiber, Pair-flipped (AB/BA), Riser/ Plenum (OFNR/OFNP)

Length	62.5 μm OM1 Multimode	50 μm OM2 Multimode	XG OM3 Multimode	XG OM4 Multimode	Singlemode
10 ft [3.05 m]	6435025-1	6435029-1	6754687-1	1553445-1	6754882-1
20 ft [6.10 m]	6435025-2	6435029-2	6754687-2	1553445-2	6754882-2
30 ft [9.14 m]	6435025-3	6435029-3	6754687-3	1553445-3	6754882-3
40 ft [12.19 m]	6435025-4	6435029-4	6754687-4	1553445-4	6754882-4
50 ft [15.24 m]	6435025-5	6435029-5	6754687-5	1553445-5	6754882-5
60 ft [18.29 m]	6435025-6	6435029-6	6754687-6	1553445-6	6754882-6
70 ft [21.34 m]	6435025-7	6435029-7	6754687-7	1553445-7	6754882-7
80 ft [24.38 m]	6435025-8	6435029-8	6754687-8	1553445-8	6754882-8

## MPO Trunk Cable Assemblies

### MPO Trunk Cable Assemblies, 24-Fiber, Pair-flipped (AB/BA), Riser/ Plenum (OFNR/OFNP) – Continued

Length	62.5 μm OM1 Multimode	50 μm OM2 Multimode	XG OM3 Multimode	XG OM4 Multimode	Singlemode
90 ft [27.43 m]	6435025-9	6435029-9	6754687-9	1553445-9	6754882-9
100 ft [30.48 m]	1-6435025-0	1-6435029-0	1-6754687-0	1-1553445-0	1-6754882-0
110 ft [33.53 m]	1-6435025-1	1-6435029-1	1-6754687-1	1-1553445-1	1-6754882-1
120 ft [36.58 m]	1-6435025-2	1-6435029-2	1-6754687-2	1-1553445-2	1-6754882-2
130 ft [39.62 m]	1-6435025-3	1-6435029-3	1-6754687-3	1-1553445-3	1-6754882-3
140 ft [42.67 m]	1-6435025-4	1-6435029-4	1-6754687-4	1-1553445-4	1-6754882-4
150 ft [45.72 m]	1-6435025-5	1-6435029-5	1-6754687-5	1-1553445-5	1-6754882-5
160 ft [48.77 m]	1-6435025-6	1-6435029-6	1-6754687-6	1-1553445-6	1-6754882-6
170 ft [51.82 m]	1-6435025-7	1-6435029-7	1-6754687-7	1-1553445-7	1-6754882-7
180 ft [54.86 m]	1-6435025-8	1-6435029-8	1-6754687-8	1-1553445-8	1-6754882-8
190 ft [57.91 m]	1-6435025-9	1-6435029-9	1-6754687-9	1-1553445-9	1-6754882-9
200 ft [60.96 m]	2-6435025-0	2-6435029-0	2-6754687-0	2-1553445-0	2-6754882-0
210 ft [64.00 m]	2-6435025-1	2-6435029-1	2-6754687-1	2-1553445-1	2-6754882-1
220 ft [67.06 m]	2-6435025-2	2-6435029-2	2-6754687-2	2-1553445-2	2-6754882-2
230 ft [70.10 m]	2-6435025-3	2-6435029-3	2-6754687-3	2-1553445-3	2-6754882-3
240 ft [73.15 m]	2-6435025-4	2-6435029-4	2-6754687-4	2-1553445-4	2-6754882-4
250 ft [76.20 m]	2-6435025-5	2-6435029-5	2-6754687-5	2-1553445-5	2-6754882-5
260 ft [79.25 m]	2-6435025-6	2-6435029-6	2-6754687-6	2-1553445-6	2-6754882-6
270 ft [82.30 m]	2-6435025-7	2-6435029-7	2-6754687-7	2-1553445-7	2-6754882-7
280 ft [85.34 m]	2-6435025-8	2-6435029-8	2-6754687-8	2-1553445-8	2-6754882-8
290 ft [88.39 m]	2-6435025-9	2-6435029-9	2-6754687-9	2-1553445-9	2-6754882-9
300 ft [91.44 m]	3-6435025-0	3-6435029-0	3-6754687-0	3-1553445-0	3-6754882-0

### MPO Trunk Cable Assemblies, 72-Fiber, Pair-flipped (AB/BA)

Length	62.5 μm OM1 Multimode		50 μm OM2 Multimode		XG OM3 Multimode
	Plenum (OFNP)	Riser (OFNR)	Plenum (OFNP)	Riser (OFNR)	Plenum (OFNP)
10 ft [3.05 m]	6435027-1	6435035-1	6435031-1	6435039-1	1828803-1
20 ft [6.10 m]	6435027-2	6435035-2	6435031-2	6435039-2	1828803-2
30 ft [9.14 m]	6435027-3	6435035-3	6435031-3	6435039-3	1828803-3
40 ft [12.19 m]	6435027-4	6435035-4	6435031-4	6435039-4	1828803-4
50 ft [15.24 m]	6435027-5	6435035-5	6435031-5	6435039-5	1828803-5
60 ft [18.29 m]	6435027-6	6435035-6	6435031-6	6435039-6	1828803-6
70 ft [21.34 m]	6435027-7	6435035-7	6435031-7	6435039-7	1828803-7
80 ft [24.38 m]	6435027-8	6435035-8	6435031-8	6435039-8	1828803-8
90 ft [27.43 m]	6435027-9	6435035-9	6435031-9	6435039-9	1828803-9
100 ft [30.48 m]	1-6435027-0	1-6435035-0	1-6435031-0	1-6435039-0	1-1828803-0
110 ft [33.53 m]	1-6435027-1	1-6435035-1	1-6435031-1	1-6435039-1	1-1828803-1
120 ft [36.58 m]	1-6435027-2	1-6435035-2	1-6435031-2	1-6435039-2	1-1828803-2
130 ft [39.62 m]	1-6435027-3	1-6435035-3	1-6435031-3	1-6435039-3	1-1828803-3
140 ft [42.67 m]	1-6435027-4	1-6435035-4	1-6435031-4	1-6435039-4	1-1828803-4
150 ft [45.72 m]	1-6435027-5	1-6435035-5	1-6435031-5	1-6435039-5	1-1828803-5
160 ft [48.77 m]	1-6435027-6	1-6435035-6	1-6435031-6	1-6435039-6	1-1828803-6
170 ft [51.82 m]	1-6435027-7	1-6435035-7	1-6435031-7	1-6435039-7	1-1828803-7
180 ft [54.86 m]	1-6435027-8	1-6435035-8	1-6435031-8	1-6435039-8	1-1828803-8
190 ft [57.91 m]	1-6435027-9	1-6435035-9	1-6435031-9	1-6435039-9	1-1828803-9
200 ft [60.96 m]	2-6435027-0	2-6435035-0	2-6435031-0	2-6435039-0	2-1828803-0
210 ft [64.00 m]	2-6435027-1	2-6435035-1	2-6435031-1	2-6435039-1	2-1828803-1
220 ft [67.06 m]	2-6435027-2	2-6435035-2	2-6435031-2	2-6435039-2	2-1828803-2
230 ft [70.10 m]	2-6435027-3	2-6435035-3	2-6435031-3	2-6435039-3	2-1828803-3
240 ft [73.15 m]	2-6435027-4	2-6435035-4	2-6435031-4	2-6435039-4	2-1828803-4
250 ft [76.20 m]	2-6435027-5	2-6435035-5	2-6435031-5	2-6435039-5	2-1828803-5
260 ft [79.25 m]	2-6435027-6	2-6435035-6	2-6435031-6	2-6435039-6	2-1828803-6
270 ft [82.30 m]	2-6435027-7	2-6435035-7	2-6435031-7	2-6435039-7	2-1828803-7
280 ft [85.34 m]	2-6435027-8	2-6435035-8	2-6435031-8	2-6435039-8	2-1828803-8
290 ft [88.39 m]	2-6435027-9	2-6435035-9	2-6435031-9	2-6435039-9	2-1828803-9
300 ft [91.44 m]	3-6435027-0	3-6435035-0	3-6435031-0	3-6435039-0	3-1828803-0

## MPO Optical Fiber Cassettes



**LC Duplex, 24-fiber MPO Cassette**



**LC Duplex, 12-fiber MPO Cassette**



**MT-RJ, 24-fiber MPO Cassette**



**SC Duplex, 12-fiber MPO Cassette**



**ST, 12-fiber MPO Cassette**

- Cassette fiber polarity is Pair-Flipped (AB/BA)
- Cassettes with polarity Pair-Straight (AB/AB) are available
- Cassettes have one 12-fiber MPO connection, or two 12-fiber MPO connections (for a total of 24-fibers) on the back of each cassette
- Highest density option uses small form factor connectors (MT-RJ or LC)
- Cassettes have same footprint as optical fiber snap-in adapter plates
- Cassettes mount in all AMP NETCONNECT enclosures that accept snap-in adapter plates
- Factory terminated and tested to be ready for installation
- For a complete list of fiber enclosures see Chapter 15

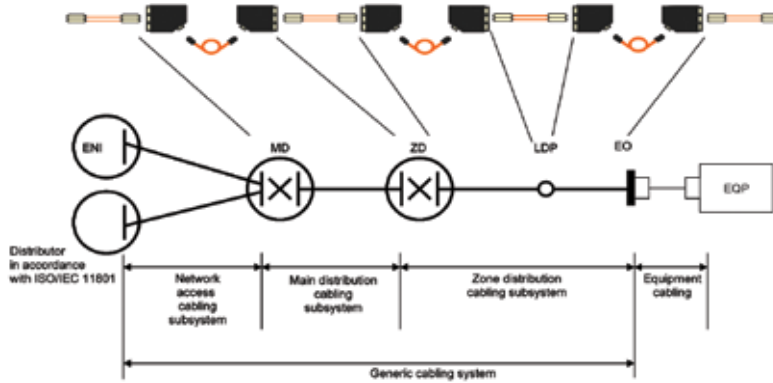
Description	Fiber Type	Adapter Color	Duplex Port Count [Fiber Count]	
			6 [12]	12 [24]
LC Duplex	62.5 $\mu$ m OM1 Multimode	Beige	1918781-1	1918782-1
	50/125 OM2 Multimode	Black	1918779-1	1918780-1
	XG OM3 Multimode	Aqua	1918783-1	1918784-1
	XG OM4 Multimode	Aqua	1553448-1	1553449-1
MT-RJ	Singlemode	Blue	1938056-1	1918786-1
	62.5 $\mu$ m OM1 Multimode	Beige	6754285-1	6754287-1
	50/125 OM2 Multimode	Black	6754286-1	6754288-1
	XG OM3 Multimode	Aqua	1918777-1	1918778-1
SC Duplex	Singlemode	Blue	1938996-1	6828819-1
	62.5/125 OM1	Black	6435180-2	–
	50/125 OM2	Black	6435181-2	–
	50/125 XG OM3	Aqua	6754333-2	–
	50/125 XG OM4	Aqua	1553450-1	–
ST	Singlemode	Blue	6435069-2	–
	50/125 OM2	Black	6435067-2	–
	62.5/125 OM1	Black	6278418-2	–



## MPOptimate Products

Our MPOptimate cabling system supports 10Gbps data center applications, as specified in ISO/IEC 24764, EN 50173-5 and TIA/EIA 942. MPOptimate systems offer one passive channel from equipment to switch with no need to signal repeat or amplify. Plus, you can replace aggregation switches by a patch cord without changing passive network components.

MPOptimate cabling systems allow network traffic in your data center to travel from connector tip to connector tip, which makes it easier to upgrade your network switch technology without re-configuring your cabling system. The MPOptimate optical fiber system is engineered to minimize the disturbance in fiber optical connections in passive cabling channels. In other words, MPOptimate components reduce attenuation and mitigate core misalignments, physical contact errors, and help boost transmission rates.



- Up to 6 cassettes per link for 10 Gbps
- Full 300 meter support on OM3 fibers
- Factory terminated and tested
- High density, up to 72 ports in 1U
- Maximum Cassette Insertion Loss: < 0.35dB
- Minimum Return Loss:
  - MPO > 28dB
  - LC/SC > 35dB
- All connectors meet IEC 61755-3 series end face geometry
- For a complete list of fiber enclosures see Chapter 15

## MPOptimate Cassettes



LC Duplex, 12-Fiber



LC Duplex, 24-Fiber

Description	Front Connectors	Fiber Count	Duplex Port Count	Fiber Polarity	
				Straight (AB/AB)	Pair-Flipped (AB/BA)
MPOptimate Cassettes	LC Duplex	12	6	1920753-1	1-1920753-1
		24	12	1920698-1	1-1920698-1
	SC Duplex	12	6	2055107-1	1-2055107-1

## MPOptimate Cable Assemblies



LC Duplex



MPO

- Other lengths available, please refer to the customer drawing for details

Connectors	Fiber Count	Fiber Polarity	Length					
			1 m [3.28 ft]	2 m [6.56 ft]	3 m [9.84 ft]	5 m [16.40 ft]	10 m [32.80 ft]	20 m [65.62 ft]
LC Duplex	2	Pair-Flipped (AB/BA)	1553287-1	1553287-2	1553287-3	1553287-5	1-1553287-0	2-1553287-0
			10 ft [3.05 m]	20 ft [6.10 m]	50 ft [15.24 m]	100 ft [30.48 m]	200 ft [60.96 m]	300 ft [91.44 m]
MPO	12	Straight (AB/AB)	1907880-1	1907880-2	1907880-5	1-1907880-0	2-1907880-0	3-1907880-0
		Pair-Flipped (AB/BA)	1907882-1	1907882-2	1907882-5	1-1907882-0	2-1907882-0	3-1907882-0
	24	Straight (AB/AB)	1907881-1	1907881-2	1907881-5	1-1907881-0	2-1907881-0	3-1907881-0
		Pair-Flipped (AB/BA)	1907883-1	1907883-2	1907883-5	1-1907883-0	2-1907883-0	3-1907883-0



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Argentina	54-11-4733-2200
Brazil	55 11 2103-6120
Canada	905-475-6222
Chile	56-2-3450347
Colombia	57-1-3198999
Mexico	52-55-1106-0800
Peru	51-1-3197900
United States	1-800-553-0938
Venezuela	57-1-3198999

### Asia/Pacific

Australia	
Sydney	61-2-9554-2600
Melbourne	61-3-9389-5677
Brisbane	61-7-3623-0340
China	
Beijing	86-10-65816181
Chongqing	86-23-89808860
Guangzhou	86-20-86672071
Hong Kong	852-2735-1628
Shanghai	86-21-24071588
Shenzhen	86-755-25154700
Wuhan	86-27-68850166
Indonesia	6221-526-7852
Japan	
Kawasaki	81-44-844-8071
Osaka	81-6-6533-8240
Korea	82-2-3274-0535
Malaysia	603-705-3055
New Zealand	
Auckland	64-9-634-4580
Wellington	64-4-384-1495
Philippines	632-848-0171
Singapore	65-482-0311
Taiwan	886-2-87682788
Thailand	66-2-955-0500
Vietnam	848-9305-546

### Europe/Middle East/Africa

Armenia	374-10-381083	Lithuania	370-5-213-1402
Austria	43-1-90560-1204	Luxemburg	31-73-6246-246
Azerbaijan	49-6103-709-3301	Netherlands	31-73-6246-246
Belarus	375-172374794	Norway	47-66-77-88-99
Belgium	32-16-35-2190	Poland	48-22-4576-700
Bulgaria	359-2-971-2152	Portugal	351-961-377-331
Cyprus	30-210-9370-396	Romania	40-21-311-3479
Czech Republic	420-5-41-162-112	Russia	7-495-790-7902
Denmark	45-70-15-52-00	Slovakia	420-5-41-162-112
Egypt	20-2-2419-2334	Slovenia	385-1-3666-733
Estonia	358-95-12-34-20	Spain	34-93-291-0330
Finland	358-95-1234-20	Netherlands	31-73-6246-211
France	33-1-3420-212	Norway	47-66-77-88-99
Georgia	49-6103-709-3301	Poland	48-22-4576-700
Germany	49-6103-709-1547	Russia	7-095-926-55-06
Greece	30-210-9370-396	Spain	34-93-291-0330
Hungary	36-1-289-1007	Sweden	46-8-5072-5000
India	91-80-4011-5000	Switzerland	41-71-447-0447
Ireland	44-208-420-8140	Turkey	90-212-281-8181
Italy	39-011-4012-111	U.A.E. (United Arab Emirates)	971-4-3210201
Kazasthan	7-327-244-5875	Ukraine	380-44-206-226
Latvia	370-5-213-14-02	United Kingdom	44-208-420-8140
For Eastern European Countries not shown	49-6103-709-1166		
For Middle East/African Countries not shown	33-1-3420-2122		
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