



# Advanced Version

## XG<sub>A</sub> Cabling Systems

### Cabling Systems for 10 Gb/s Networks

The new AMP NETCONNECT XG<sub>A</sub> Cabling System provides a complete infrastructure scaled for horizontal and backbone systems supporting 10 Gb/s Ethernet applications – yet meeting all of the ISO/IEC, CENELEC and TIA/EIA requirements.



With a multitude of network infrastructure design choices available today, IT managers constantly face the challenge of how to optimize their data communication requirements. In addition to traditional data transfer, new IP reliant applications such as VoIP, video streaming, live feeds and surveillance systems are continually emerging in offices and data centers. Consequently, faster and more reliable infrastructures are required to ensure that business critical applications become future-proof and return on investment is optimized.

The AMP NETCONNECT XG<sub>A</sub> Cabling System has been designed to meet all applicable standards, system or component, giving the user the confidence that it will last for many years to come, and providing the flexibility of implementation that is needed for both, Enterprise and Data Center installations.

#### Product Facts:

##### Copper System:

- Exceeds Class E<sub>A</sub> channel definition of ISO/IEC 11801:2002 Amendment 1
- Exceeds Class E<sub>A</sub> permanent link definition of ISO/IEC 11801:2002 Amendment FPDAM 2 **New**
- Exceeds Category 6<sub>A</sub> component definition of ISO/IEC 11801:2002 Amendment FPDAM 2 **New**
- Allows for very short permanent link implementation  $\geq 2$  meter **New**
- Provides excellent correlation between laboratory and field measurements **New**
- 3<sup>rd</sup> party certification **New**
- Alien Crosstalk met by design
- Excellent Background Noise suppression
- Easy installation with Automatic Wire Cutting (AWC)

##### Fiber System:

- Complete end-to-end system for 10 Gigabit networks consisting of:
  - OM3 System Cable **New**
  - OM4 System Cable **New**
  - OM3 Patch Leads
  - XG Fiber Connectors
  - XG MPO Plug&Go System
- XG System Cable meets the OM3 and OM4 fiber specifications of ISO/IEC 11801:2002 Amendment FPDAM 2 **New**
- Provides support up to 550 meters using OM4 cabled fiber

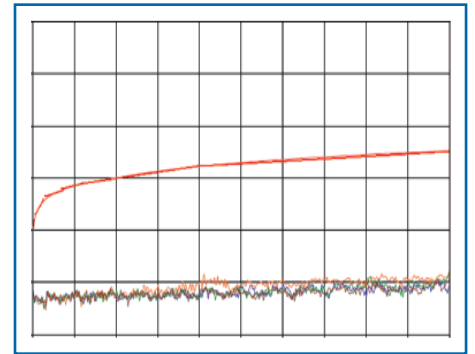


Our commitment. Your advantage.

## AMP NETCONNECT XG<sub>A</sub> Copper System

The AMP NETCONNECT XG<sub>A</sub> Copper System overcomes Alien Crosstalk & EMI issues by combining Tyco Electronics' outstanding screening technology and experience with high performing connecting hardware, which enables the system to meet all Alien Crosstalk requirements by design, as described in ISO/IEC 11801 Amendment FPDAM2. The screening of cables and connecting hardware suppresses the negative impact of external noises on the transmitting channel and ensures an excellent Signal/Noise ratio. The S/N ratio is mission critical for a proper 10GBase-T transmission!

The system features our patented automatic wire cutting, which is the fastest method available and reduces the termination time of a shielded modular jack to less than 1 minute.



Excellent AlienCrosstalk Performance!

## AMP NETCONNECT XG<sub>A</sub> 600 MHz Copper Connecting Hardware

### Product Facts:

This Cat. 6<sub>A</sub> RJ-45 die-cast jack with or w/o dustcover can be terminated in less than a minute (thank to the Tyco Electronics AWC technique.) Meets ISO/IEC 11801 Amd. FPDAM 2 requirements.



Description	Part Number
AMP-TWIST 6 <sub>A</sub> S SL Jack with dustcover	0-1711592-1
AMP-TWIST 6 <sub>A</sub> S SL Jack w/o dustcover	0-1711716-1



## AMP NETCONNECT XG<sub>A</sub> 600 MHz Copper Patch Cords

### Product Facts:

Stranded AWG 26 patch cord with 600 MHz performance.



Description	Performance	Jacket	AWG
XG <sub>A</sub> Category 6 <sub>A</sub> RJ-45/RJ-45	600 MHz	LSZH	26

Color	Part Number	Color	Part Number
White	Y-1711815-X	Yellow	Y-1711818-X
Blue	Y-1711816-X	Red	Y-1711819-X
Grey	Y-1711817-X	Green	Y-1711820-X

Y-	-X	Length
1-	-1	0.5 m
0-	-1	1.0 m
0-	-2	2.0 m
0-	-3	3.0 m
0-	-5	5.0 m
1-	-0	10.0 m

Other lengths and colors on request!

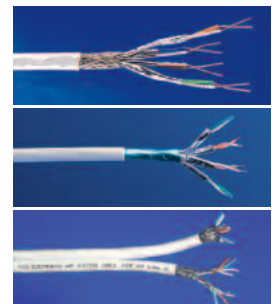


## AMP NETCONNECT XG<sub>A</sub> Copper System Cables

### Product Facts:

Reliable high performance system cables that fulfil the new Cat.6<sub>A</sub>/7<sub>A</sub> standards. All cables have LSZH jacket.

Description	Performance	AWG	Packaging	Part Number
PIMF Compact Simplex	Cat. 6 <sub>A</sub> /7	23	500 m/Reel	0-1711163-1
PIMF Compact Duplex	Cat. 6 <sub>A</sub> /7	23	500 m/Reel	0-1711195-1
PiMF 600 Simplex	Cat. 7	23	1000 m/Reel	0-0057893-1
PiMF 600 Duplex	Cat. 7	23	1000 m/Reel	0-1711005-1
PiMF 1200 Simplex	Cat. 7 <sub>A</sub>	22	1000 m/Reel	0-1499101-1
PiMF 1200 Duplex	Cat. 7 <sub>A</sub>	22	1000 m/Reel	0-1711003-1



## Field Termination Tool for AMP-TWIST SL Jacks

### Product Facts:

Field termination hand tool which strips cable, marks foil, terminates and cuts 8 conductors at once while maintaining the integrity of the twisted pair. This saves time and cost and ensures reliable and repeatable termination quality.

Description	Part Number
Handheld tool kit for AMP-TWIST 6 <sub>A</sub> S and 7 <sub>A</sub> S jacks (without fixture)	0-1725150-3

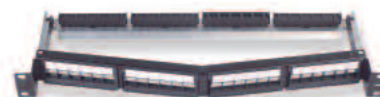


## Modular Patch Panel 1 U (unloaded)

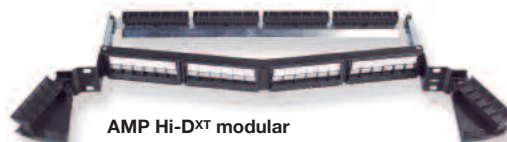
### Product Facts:

- AMP Hi-D angled patch panels include adjustable & removable rear cable bracket incl. easy to use cable organizing CaRe-clips
- AMP Hi-D<sup>XT</sup> includes cable managers
- AMPTRAC functionality only applicable for jacks without dustcover

Description	Color	Part Number
AMP Hi-D modular panel STP for 24 SL jacks	black (RAL 9005)	1-1671157-2
AMP Hi-D <sup>XT</sup> modular panel STP for 24 SL jacks	black (RAL 9005)	1-1671158-2
AMP Hi-D Full AMPTRAC modular panel STP for 24 SL jacks	black (RAL 9005)	1-1671136-2
Flushmount modular panel for 24 SL jacks	black (RAL 9005)	1-1671183-1
Flushmount Full AMPTRAC modular panel for 24 SL jacks	black (RAL 9005)	1-1671187-1



AMP Hi-D modular



AMP Hi-D<sup>XT</sup> modular



Flushmount modular

## Flushmount AMPTRAC Ready! Patch Panel 1 U (unloaded)

### Product Facts:

- AMPTRAC *Ready!* version: prepared for AMPTRAC upgrade
- Full AMPTRAC version: fully equipped with AMPTRAC functionality
- AMPTRAC functionality only applicable for jacks without dustcover

Description	Color	Part Number
Full AMPTRAC* unloaded panel for 24 AMP-TWIST 6 jacks	black	0-1711685-4
AMPTRAC <i>Ready!</i> unloaded panel for 24 SL jacks	black	0-1711685-1
AMPTRAC <i>Ready!</i> unloaded panel for all SL jacks	light grey	0-1711685-2



## Flushmount Standard Patch Panel 1 U (unloaded)

### Product Facts:

- 19" Standard unloaded flushmount panel

Description	Color	Part Number
24 port panel	black (RAL 9005)	0-0336526-1
24 port panel	light grey (RAL 7035)	0-0336526-4



## AMP-TWIST / SL Jack Consolidation Point (unloaded)

### Product Facts:

- 1 U consolidation point for wallmount or raised floor use
- Accepts 4 or 12 AMP-TWIST or SL Jacks
- Hinged cover with knurled screw
- Dust protection for the full connection



Description	Dimensions (mm)	Ports	Color	Part Number
SL Jack Consolidation Point	115 x 245 x 40	4	black (RAL 9005)	1-1671163-1
SL Jack Consolidation Point	235 x 245 x 40	12	black (RAL 9005)	2-1671163-1

## Surface Mount Modules

### Product Facts:

- Cover is secured by latches and screw for additional security
- Cable exits located on rear, bottom and both sides of modules
- Can be mounted using screws, double sided foam tape, and magnets

-X	Color
-1	almond
-2	black
-3	white
-4	grey

Description	Ports	Part Number
Surface Mount Module	2-Port	0-1933668-X
Surface Mount Module	4-Port	0-1933671-X
Surface Mount Module	8-Port	0-1933674-X



## DIN 3 Port Angled Outlet, 50 x 50 mm, iconable

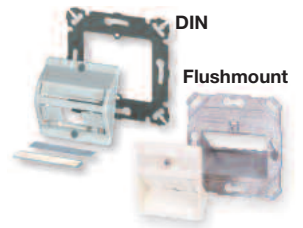
Description	Part Number
DIN 3 port angled outlet without plastic frame, for all AMP-TWIST Jacks	<b>Y-0336613-1</b>
DIN 3 port angled outlet with 80 x 80 mm plastic frame*, for all AMP-TWIST Jacks	<b>Y-0336614-1</b>
Flushmount 3 port angled outlet with 80 x 80 mm plastic frame*, for AMP-TWIST 6 Jacks only	<b>0-1711537-X</b>
Flushmount 3 port angled outlet (UPO), for AMP-TWIST 6 Jacks	<b>0-1711490-1</b>

\* For surface mount use Back Box **Y-0966740-1**

Y-	Color
0-	almond (RAL 1013)
2-	pure white (RAL 9010)

-X	Color
-1	almond (RAL 1013)
-2	pure white (RAL 9010)



## Standard US Faceplate Single Gang, 114,3 x 69,9 mm, iconable

Description	Part Number
2 Port single gang work area outlet	<b>0-0557505-X</b>
4 Port staggered single gang work area outlet	<b>0-0557502-X</b>
4 Port single gang work area outlet	<b>0-0558088-X</b>
6 Port single gang work area outlet	<b>0-0557691-X</b>

-X	Color
-1	almond (RAL 1013)
-3	pure white (RAL 9010)



## “EDIZIOdue Compatible” 2 Port Straight, iconable

Description	Part Number
UP	<b>0-1711168-X</b>
KNL	<b>0-1711169-X</b>
AP pure white (RAL 9010)	<b>5-0101016-7</b>

-X	Color
-1	pure white (RAL 9010)
-4	black (RAL 9005)



## 45 x 45 mm Unloaded Shuttered Modules, Icons included

Description	Color	Part Number
Single Port Module 22,5 x 45 mm	pure white (RAL 9010)	<b>0-1711349-1</b>
Single Port Module 45 x 45 mm	pure white (RAL 9010)	<b>0-1711277-1</b>
Dual Port Module 45 x 45 mm	pure white (RAL 9010)	<b>0-1711276-1</b>



## BS LJ6C Unloaded Faceplates and Shuttered Modules

Description	Dimensions	Color	Part Number
Single port LJ6C unloaded faceplate	86 x 86 mm	signal white (RAL 9003)	<b>0-1711301-1</b>
Dual port LJ6C unloaded faceplate	86 x 86 mm	signal white (RAL 9003)	<b>0-1711302-1</b>
Single shuttered LJ6C module	25 x 39 mm	signal white (RAL 9003)	<b>0-1711348-1</b>
Single shuttered angled LJ6C module	25 x 39 mm	signal white (RAL 9003)	<b>0-1859096-1</b>
Single unshuttered angled LJ6C module	25 x 39 mm	signal white (RAL 9003)	<b>0-1711775-1</b>
Blanking plate	-	signal white (RAL 9003)	<b>0-1711491-1</b>



## BS 50 mm Unloaded Faceplates and Shuttered Modules

Description	Dimensions	Color	Part Number
Single gang faceplate (for 2 modules)	86 x 86 mm	signal white (RAL 9003)	<b>0-1711399-1</b>
Dual gang faceplate (for 4 modules)	145 x 86 mm	signal white (RAL 9003)	<b>0-1711400-1</b>
Single angled module	25 x 50 mm	signal white (RAL 9003)	<b>0-1711275-1</b>
Blanking plate	25 x 50 mm	signal white (RAL 9003)	<b>0-1711403-1</b>
Blanking plate	12,5 x 50 mm	signal white (RAL 9003)	<b>0-1711404-1</b>



## SL Jack Mounting Frame for OBO Betterman Floor Boxes

Description	Dimensions	Color	Part Number
SL Jack mounting frame	short version	chromalized	<b>0-1711255-3</b>
SL Jack mounting frame	long version	chromalized	<b>0-1711255-4</b>



## AMP NETCONNECT XG Fiber Systems

The AMP NETCONNECT XG Fiber System is a high performance multimode fiber optic cabling system which has been designed to meet the requirements of 10 Gigabit Ethernet and 10 Gigabit Fiber Channel applications.

The system fulfills the specifications of IEEE 802.3ae for 10GBase-SR (10 Gigabit Ethernet serial transmission on 850 μm) and complies to the upcoming cabled optical fiber type and link class definitions of ISO 11801 Amendment FPDAM 2. In addition, the XG products also support the complete range of 50/125 μm legacy LED and laser-based applications.

All system components have been designed and optimized to provide the best multimode system performance in order to ensure compatibility for 10 Gigabit network applications.



## AMP NETCONNECT XG Fiber Optic Cables

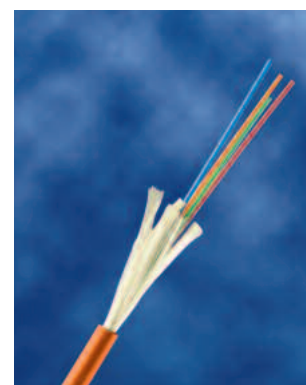
### Product Facts:

All cables are Cat. OM3 or OM4 cabled fiber in accordance with ISO/IEC 11801:2002 Amendmend FPDAM2.

All cables are ULSZH-jacketed.

Description	Part Number
Office Distribution Cable, 4 fiber	<b>2-0599144-X</b>
Office Distribution Cable, 6 fiber	<b>2-0599145-X</b>
Office Distribution Cable, 8 fiber	<b>2-0599146-X</b>
Office Distribution Cable, 12 fiber	<b>2-0599148-X</b>
Office Distribution Cable, 24 fiber	<b>2-1716029-X</b>
Office Distribution Cable, 48 fiber	<b>2-0599603-X</b>
I/E DLT Cable, 12 fiber	<b>2-0599156-X</b>
I/E DLT Cable, 24 fiber	<b>2-0599159-X</b>
I/E DLT Cable, 48 fiber	<b>2-0599605-X</b>
I/E DLT Cable, Rodent Resistant, 12 fiber	<b>2-0599617-X</b>
I/E DLT Cable, Rodent Resistant, 24 fiber	<b>2-0599619-X</b>
I/E DLT Cable, Rodent Resistant, 48 fiber	<b>2-0599621-X</b>

Notes: DLT = Dry Loose Tube, I/E = Internal/External



All existing AMP NETCONNECT System Cable constructions can be constructed with the OM3 or OM4 cabled fiber. Please select the appropriate cable design from the AMP NETCONNECT Catalog.

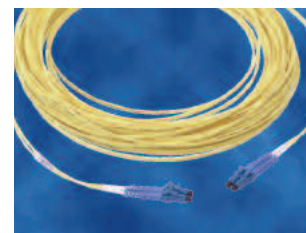
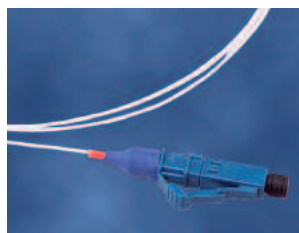
-X	Fiber Category
-3	for OM3 cabled optical fibers
-2	for OM4 cabled optical fibers



## AMP NETCONNECT XG Fiber Optic Cables Assemblies

Description	Part Number
XG Duplex Patch Cord LC to LC	<b>Y-6536969-X</b>
XG Simplex Pigtail LC	<b>0-6536966-2</b>
XG Duplex Patch Cord SC to SC	<b>Y-6536464-X</b>
XG Simplex Pigtail SC Tight Buffered	<b>0-6695507-2</b>
XG Simplex Pigtail SC Semi Tight Buffered	<b>0-6536561-2</b>
XG Duplex Patch Cord LC to SC	<b>Y-6536967-X</b>

Y- -X	Length
0- -1	1,0 m
0- -2	2,0 m
0- -3	3,0 m
0- -5	5,0 m
1- -0	10,0 m



The AMP NETCONNECT XG System cable assemblies are LSZH jacketed and contain OM3 fiber. To ensure a maximum performance on VCSEL & FP Laser links, the cable assemblies come with factory tested Insertion Loss & Return Loss test results.

## AMP NETCONNECT XG Fibre Optic Connectors

### Product Facts:

- Easiest and quickest fiber termination (less than one minute)
- Factory polished for consistent high quality and finish (no paper required)
- Complies with the relevant TIA/EIA, ISO/IEC and CENELEC standards
- No epoxy – pre-polished

Description	Part Number
Light Crimp Plus LC Connector Simplex	<b>0-6754483-3</b>
Light Crimp Plus LC Connector Duplex	<b>0-6754485-3</b>
Light Crimp Plus SC Connector Simplex	<b>0-6588291-1</b>
Light Crimp Plus SC Connector Duplex	<b>0-6588292-1</b>



## AMP Hi-D Modular Fiber Optic Panel

### Product Facts:

- Drawer style, 1 U, 19"
- Plexi transparent cover
- 4 Quick-Fit Cutouts
- One pin splice tray fixation (splice tray NOT included)

**Color:** black (RAL 9005)



Description	Fiber Type	Part Number
AMP Hi-D Modular FO panel	–	<b>1-1671260-1</b>

## Quick-Fit Modules

### Product Facts:

- Universal Snap-In-Modules with Quick-Fit footprint
- Fits in all AMP NETCONNECT patch panels with Quick-Fit footprint
- Not interchangeable with push pin fixation

**Color:** black (RAL 9005)

Description	Part Number
6 x LC Duplex (OM3)	<b>0-1671196-3</b>
6 x MPO (OM3)	<b>0-1671200-3</b>
6 x SC Duplex (OM3)	<b>0-1671201-3</b>
6 x LC Quad (OM3)	<b>0-1671202-3</b>
Blank module	<b>0-1479698-1</b>



## Modular Fiber Optic Panel Flushmount Style

### Product Facts:

- Drawer style, 1 U, 19"
- Interchangeable adaptor panels (to be ordered separately)
- Quick-Fit modules can be used with the appropriate Quick-Fit adaptor panels
- Plexi transparent cover
- Pull-out labelling strip
- Panels available with or without fiber adaptors (order **0-...-9** for unpopulated version)
- One pin Splice Tray fixation (splice tray NOT included)



Description	Color	Part Number
Modular fiber panel – drawer	black (RAL 9005)	<b>1-1671262-1</b>
Adaptor panel for 24 x SC duplex	black (RAL 9005)	<b>Y-1671268-X</b>
Adaptor panel for 24 x LC duplex	black (RAL 9005)	<b>Y-1671271-X</b>
Adaptor panels for 4 Quick-Fit modules	black (RAL 9005)	<b>0-1671263-1</b>
Modular fiber panel – drawer	grey (RAL 7035)	<b>1-1671262-2</b>
Adaptor panel for 24 x SC duplex	grey (RAL 7035)	<b>Y-1671269-X</b>
Adaptor panel for 24 x LC duplex	grey (RAL 7035)	<b>Y-1671272-X</b>
Adaptor panels for 4 Quick-Fit modules	grey (RAL 7035)	<b>0-1671263-2</b>

-X	Fiber Type	Color
-3	OM3	aqua
-9	unpopulated	

Y-	No. of Adaptors
0-	unpopulated
1-	12
2-	24

## AMP NETCONNECT XG Fiber MPO System

### Common Features:

- Factory pre-terminated
- LSZH sheath
- Terminated with high density MPO cassettes
- All cords with protocol for constant and reliable quality

Combining pre-terminated cable assemblies and cassettes makes installation as simple as “plug&go”: mounting the cassettes, pulling or placing the cables, and plugging the cables into the cassettes. Networks can be up and running in days, not weeks or months.

### MPO Patch Cords

#### Product Facts:

- 2 x 5 mm outer dimensions

Description	Part Number	
	Female/Female	Female/Male
50/125 µm, OM3 (XG)	Y-6391908-X	Y-1920738-X

Y- -X	Length
0- -1	1,0 m
0- -5	5,0 m
1- -0	10,0 m
1- -5	15,0 m
2- -0	20,0 m



### MPO Fanout Cords

#### Product Facts:

- For lengths ≤ 10 m: ribbon cable with 1 fanout (on tail side)
- For lengths > 10 m: round cable with 2 fanouts
- Configuration with other connector types on request

Description	Part Number	
	Female MPO	Male MPO
MPO to 6 x MT-RJ, 50/125 µm, OM3 (XG)	Y-6695461-X	Y-1920348-X
MPO to 12 x LC, 50/125 µm, OM3 (XG)	Y-6695464-X	Y-1920352-X
MPO to 12 x SC, 50/125 µm, OM3 (XG)	Y-6695460-X	Y-1920356-X

Y- -X	Length
0- -5	5,0 m
1- -0	10,0 m
1- -5	15,0 m
2- -0	20,0 m



### Pre-terminated MPO Trunk Cable, 12 Fiber (Midi Fanout)

#### Product Facts:

- Available in lengths up to 500 m (on request)
- The trunks are equipped with midi fanout that can be clipped in CaRe-Clip

Fiber	Part Number
50/125 µm, OM3 (XG)	Y-2055158-X

All pairs straight (Complete link needs one component with flipped pairs!).

Y- -X	Length	Y- -X	Length	Y- -X	Length	Y- -X	Length
0- -7	7 m	4- -0	40 m	6- -1	110 m	6- -8	180 m
1- -0	10 m	5- -0	50 m	6- -2	120 m	6- -9	190 m
1- -4	14 m	5- -2	60 m	6- -3	130 m	7- -0	200 m
2- -0	20 m	5- -4	70 m	6- -4	140 m	7- -1	210 m
2- -5	25 m	5- -6	80 m	6- -5	150 m	7- -2	220 m
3- -0	30 m	5- -8	90 m	6- -6	160 m	7- -3	230 m
3- -5	35 m	6- -0	100 m	6- -7	170 m	7- -5	250 m



Midi Fanout to be clipped in CaRe-Clips on rear cable management bars

### Pre-terminated MPO Trunk Cable, 24/48 Fiber

#### Product Facts:

- Also available in 72 and 96 fiber count
- Available in lengths up to 500 m (on request)

Fiber	Part Number	
	24 Fibers	48 Fibers
50/125 µm, OM3 (XG)	Y-6920014-X	Y-6695471-X

All pairs straight (Complete link needs one component with flipped pairs!).

Y- -X	Length	Y- -X	Length	Y- -X	Length	Y- -X	Length
4- -6	7 m	0- -4	40 m	1- -1	110 m	1- -8	180 m
0- -1	10 m	0- -5	50 m	1- -2	120 m	1- -9	190 m
4- -7	15 m	0- -6	60 m	1- -3	130 m	2- -0	200 m
0- -2	20 m	0- -7	70 m	1- -4	140 m	2- -1	210 m
4- -8	25 m	0- -8	80 m	1- -5	150 m	2- -2	220 m
0- -3	30 m	0- -9	90 m	1- -6	160 m	2- -3	230 m
4- -9	35 m	1- -0	100 m	1- -7	170 m	2- -5	250 m



All cable assemblies delivered with pulling socks.

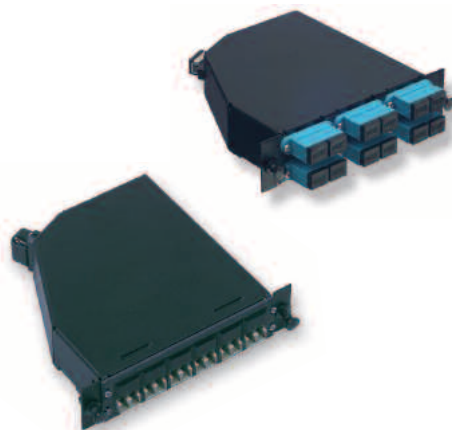
# AMP NETCONNECT – Leading Connector Technology

## MPO Snap-In-Cassettes, 12 Fibers

### Product Facts:

- Simple and flexible premises fiber cabling
- Pre-terminated cassettes with 1 MPO trunk connection (1 x 12 fibers) at rear
- Easy installation, moves, adds and changes
- Fits in all AMP NETCONNECT patch panels for Snap-In-Modules

Fiber type	Frontside-connector	Part Number	
		Pairs flipped	Pairs straight
50 µm, OM3, 10 GBit XG, Multimode	6 x SC Duplex	<b>1-6695133-1</b>	<b>0-6695133-1</b>
50 µm, OM3, 10 GBit XG, Multimode	6 x LC Duplex	<b>0-1920209-8</b>	<b>0-1920209-7</b>



## MPO Snap-In-Cassettes, 24 Fibers

### Product Facts:

- Simple and flexible premises fiber cabling
- Pre-terminated cassettes with 2 MPO trunk connections (2 x 12 fibers) at rear
- Either 12 x LC Duplex or 12 x MT-RJ at the frontside
- Easy installation, moves, adds and changes
- Fits in all AMP NETCONNECT patch panels for Snap-In-Modules

Fiber type	Frontside-connector	Part Number	
		Pairs flipped	Pairs straight
50 µm, OM3, 10 GBit XG, Multimode	12 x LC Duplex	<b>0-1920033-8</b>	<b>0-1920033-7</b>
50 µm, OM3, 10 GBit XG, Multimode	12 x MT-RJ	<b>0-6391931-1</b>	<b>1-6391931-1</b>



## 1 U Patch Panel, Drawer, Empty, for 3 MPO Cassettes or Snap-In-Modules

### Product Facts:

- 1 U, 19", metal
- Drawer style
- Accommodates up to 3 MPO/MPOOptimate Cassettes or Snap-In-Modules
- Quick release front panel

**Color:** black (RAL 9005)

Description	Height	Part Number
Drawer panel for 3 MPO Cassettes (w/o glands & managers)	1 U	<b>0-1671082-8</b>
Drawer panel for 3 Snap-in-Modules (w/ glands & managers)	1 U	<b>0-1348876-4</b>



## TE AMP NETCONNECT Regional Sales Headquarters:

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