

Storage Area Management (SAM)

Optical Cable Management, Simplified



You're the data center honcho for a regional bank and your online banking site just crashed. The last time this happened, it took hours to locate the faulty server connection and get the site restored. But this time it took only minutes. Why? You upgraded your cable management to our SAM system, the most advanced Storage Area Management technology available from TE Connectivity. The SAM system's sleek, high-density design reduces cable clutter and bulk, which makes it easier to find switch and storage ports and verify connections.

Additionally, SAM improves airflow to server racks, which allows your HVAC to cool critical electronics more efficiently. And with floor-space power ratios expected to jump from approximately 400 watts per square foot to more than 600 by 2011*, SAM's super efficient design helps ensure that your data center can host the next generation of high-density electronics.

*The Gartner report "U.S. Data Centers: The Calm Before the Storm, 2007"

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Bottom line – SAM is all about saving time, space and money in your data center. And that has always been the challenge for data center professionals like you. Next-gen SAN equipment only compounded the problem, not to mention undersized cabinets and legacy racks.

That's the appeal of our SAM technology. It takes the complexity out of cable management. And it optimizes the performance of your data center floor space, racks and electronics:

- Manages up to 1152 fibers (576 ports) in 2 rack units
- 6 quick connections activate 48 duplex ports
- Color-coded and keyed assemblies simplify installation and change
- Low-profile fan-out assemblies ease port access with minimized excess cable
- Modular angled adaptor plates align with line cards for scaled implementation and simplified documentation
- Front accessible fan-out assemblies eliminate need for horizontal cable managers, speeding moves, adds and changes (MACs)
- Front connection of fan-outs enables cable management where no vertical/horizontal managers exist.
- Internal guides facilitate installation of trunk cables both during initial installation and MACs



SAM Rack Mount Optical Fiber Enclosures and Accessories

- Accept 12 SAM adaptor plates
- Angled front face for improved visibility and cable management
- Rugged aluminum construction
- Internal guides to ease installation of trunk assemblies
- Adjustable front and rear mounting brackets included
- Port labeling on rear for easier documentation

ORDERING INFORMATION

Product Description	Part Number
Rack Mount Patch Enclosure, 2U MPO SECURE	1553530-1

SAM Far End Enclosures and Accessories

- Accept MPO trunk assemblies above at rear and standard LC assemblies in the front
- Available in 48 port (96 fiber) and 32 port (64 fiber)
- Maintain same port identity and labeling scheme as the hydra assemblies
- Rear Mounting Bar included

ORDERING INFORMATION

Product Description	Part Number	
	32-Port	48-Port
SAM Far End Enclosure, 1U MPO to Quad LC		
XG OM3 (850nm LO 50 µm) Multimode	1553533-2	1553533-1
Single-mode	1553657-2	1553657-1

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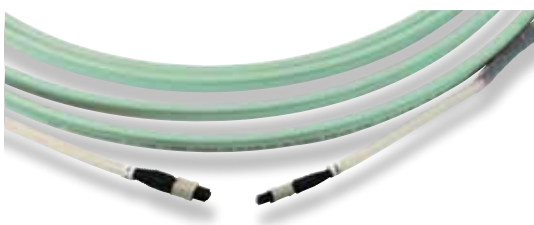
SAM MPO Linecard Kits

- Linecard dedicated kits to minimize cable slack
- Each kit includes all hydra assemblies and adaptor plate for application linecard
- Pre-labeled duplex LC, MPO plug assemblies, and adaptor plate, for efficient installation
- Simplifies ordering and installation process
- Color coded adaptors minimize risk of improper plugging
- MPO connectors feature color coded keying for proper mating
- Blank plates, cable management plates, and other components also available

ORDERING INFORMATION

	Includes	Part Number
16-Port Kit		
XG OM3 (850nm LO 50 µm) Multimode	1553651-1, 1553608-1, 1553609-1	1553694-1
Single-mode	1553651-1, 1553635-1, 1553636-1	1553695-1
32-Port Kit		
XG OM3 (850nm LO 50 µm) Multimode	1553652-1, 1553608-1, 1553608-2, 1553609-1, 1553609-2	1553694-2
Single-mode	1553695-2, 1553635-1, 1553635-2, 1553636-1, 1553636-2	1553695-2
48-Port Kit		
XG OM3 (850nm LO 50 µm) Multimode	1553653-1, 1553527-1, 1553527-2, 1553528-1, 1553528-2, 1553529-1, 1553529-2	1553694-3
Single-mode	1553653-1, 1553676-1, 1553676-2, 1553677-1, 1553677-2, 1553678-1, 1553678-2	1553695-3

SAM MPO Trunk Cable Assemblies



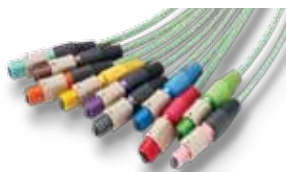
- 24 fiber assemblies (16 active when mated to hydras provides an upgrade path to 40 and 100 GbE)
- Mate with SAM adaptor plates and SAM Far End Enclosures
- OFNR/OFNP rated
- Pre-tested and ready to install
- Additional lengths are available, please contact Tyco Electronics for details

ORDERING INFORMATION

End A	End B	Length	Part Number	
			XG OM3 (850nm LO 50 µm) Multimode	Single-mode
MPO	MPO	3 m [10 ft]	1553534-1	1553640-1
		6 m [20 ft]	1553534-2	1553640-2
		9 m [30 ft]	1553534-3	1553640-3
		12 m [40 ft]	1553534-4	1553640-4
		15 m [50 ft]	1553534-5	1553640-5
		18 m [60 ft]	1553534-6	1553640-6
		21 m [70 ft]	1553534-7	1553640-7
		24 m [80 ft]	1553534-8	1553640-8
		27 m [90 ft]	1553534-9	1553640-9
		30 m [100 ft]	1-1553534-0	1-1553640-0

SAM MPO Hydra Cable Assemblies

A



B



- 8-Port/16 fiber assemblies
- Length optimized for minimum slack
- MPO connectors feature color coded keying for proper mating
- Individually labeled legs
- Kits are also available, please contact Tyco Electronics for details

ORDERING INFORMATION

End A	MPO SECURE Keying Color	End B	Fiber Type	MPO Labelled	Part Number
MPO SECURE Connector	Red	8 LC Duplex	XG OM3 (850nm LO 50 µm) Multimode	0 - 7	1553527-1
				24 - 31	1553527-2
			Single-mode	0 - 7	1553676-1
				24 - 31	1553676-2
	Yellow	8 LC Duplex	XG OM3 (850nm LO 50 µm) Multimode	8 - 15	1553528-1
				32 - 39	1553528-2
			Single-mode	8 - 15	1553677-1
				32 - 39	1553677-2
	Blue	8 LC Duplex	XG OM3 (850nm LO 50 µm) Multimode	16 - 23	1553529-1
				40 - 47	1553529-2
			Single-mode	16 - 23	1553678-1
				40 - 47	1553678-2
	Green	8 LC Duplex	XG OM3 (850nm LO 50 µm) Multimode	0 - 7	1553608-1
				16 - 23	1533608-2
			Single-mode	0 - 7	1553635-1
				16 - 23	1553635-2
	Orange	8 LC Duplex	XG OM3 (850nm LO 50 µm) Multimode	8 - 15	1553609-1
				24 - 31	1553609-2
			Single-mode	8 - 15	1553636-1
				24 - 31	1553636-2

SAM MPO Adaptor Plates

- Adaptor counts match 16, 32 and 48-port blades
- Color coded keying on adaptors minimize risk of improper mating
- Port numbering matches blades
- Robust screw-in mounting system
- Blank plates and cable management plates available

ORDERING INFORMATION

Description	Port Count	Coupling Adaptor/Interface	Part Number
Adaptor Plate	16-Port	MPO	1553651-1
	32-Port	MPO	1553652-1
	48-Port	MPO	1553653-1
	-	Blank	1553675-1
	-	Blank with Cable Management	1553656-1

SAM System Miscellaneous Components

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

ORDERING INFORMATION

Description	Part Number
Cable Management Bracket Kit	1553658-1

DATA SHEET

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