

# QuickNet™ SFQ Series MTP\* Fiber Optic Cassettes

## technical information

QuickNet™ SFQ Series MTP\* Fiber Optic Cassettes comply with all multimode and singlemode channel performance requirements. Fiber optic cassettes support network data rates of 10 Gb/s for link lengths up to 300 meters using laser optimized OM3 fiber and link lengths up to 550 meters using OM4 fiber. Optimized cassettes provide insertion loss of 0.5dB max., and standard cassettes provide 0.75dB max. to meet IEEE 802.3ae max. channel loss specification. QuickNet™ SFQ Series MTP\* Fiber Optic Cassettes employ high performance MTP\* connectors on the rear of the units routed to 6 or 4 duplex LC colors shall follow TIA/EIA-568-C.3 suggested color identification scheme. They interconnect with high-density SFF MTP\* interconnect cable assemblies. High-density cassette patch panels hold up to 8 cassettes, allowing up to 96 fiber connections to be deployed in one rack unit (1 RU).



## application

Allows system designers to tailor configuration, reach and breakout construction to application requirements; to minimize waste, optimize cable management, speed deployment, and improve flexibility and manageability for lower installation costs.

## construction

<b>Fiber types:</b>	Singlemode:	OS1/OS2 9/125µm
	Multimode:	OM1 62.5/125µm OM3 10Gig 50/125µm OM4 10Gig 50/125µm
<b>Front connectivity:</b>	SC Duplex or LC Duplex adapters Multimode with PC Polish Singlemode with UPC Polish	
<b>Rear connectivity:</b>	Multimode:	MTP* adapter(s) with male ferrules (pins) and PC Polish
	Singlemode:	MTP* adapters with male ferrules (pins) and APC Polish

## environmental properties

<b>Operating temperature:</b>	0°C to +70°C (32°F to 158°F)
<b>Storage and shipping temperature:</b>	-40°C to +70°C (-40°F to 158°F)
<b>Installation temperature</b>	0°C to +60°C (32°F to 140°F)

## performance properties

<b>Insertion loss (link loss):</b>	Optimized (per fiber):	0.5dB max.
	Standard (per fiber):	0.75dB max.
<b>Return loss:</b>	Per fiber:	>20dB (OM1)
		>26dB (OM3/OM4)
		>55dB (OS1/OS2)
<b>Connector durability:</b>	Connectors meet	TIA/EIA-568C.3 A.4.9
	Durability:	500 mating cycles
<b>Fiber count:</b>	6, 8, and 12	
<b>Split sleeve material:</b>	Zirconia ceramic:	OM3 OM4 multimode cassettes OS1/OS2 singlemode cassettes
	Phosphor bronze:	OM1 multimode cassettes

## standards

Connectivity meets or exceeds TIA/EIA-568-C.3 performance requirements.  
Supports IEEE 802.3ae and ANSI T11.2 (Fibre Channel) channel and link specifications.  
Compliant with ROHS 2002/95/EC

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## part number configurator

Example: FQXO-12-10AS = Fiber, QuickNet™, OM3 10 GbE, optimized cassette, 12-fiber with duplex LC adapter and standard Method A polarity.

Character	1	2	3	4	5	6	7	8	9	10	11	12
Example	F	Q	X	O	-	1	2	-	1	0	A	S

### 1 – Fiber Product

F = Fiber

### 2 – Product Type

Q = QuickNet™

### 3 – Fiber Type

6 = OM1 Fiber (62.5/125μm);  
Available with standard loss only

9 = OS1/OS2 Fiber; Available with  
standard loss only

X = OM3 Fiber (10Gig 50/125μm)

Z = OM4 Fiber (10Gig 50/125μm)

S = Signature Core OM+ Fiber;  
Available with ultra low loss only  
and in 12-fiber LC connectivity

### 4 – Fiber Type

N = Standard Loss  
(0.75dB Link Loss)

O = Optimized Cassette  
(0.5dB Link Loss)

A = Ultra Low Loss (0.35dB Link  
Loss); only available with  
Signature Core™ OM4 + Fiber  
and in 12-fiber LC Connectivity

### 5 – Dash

### 6, 7 – Fiber Count

06 = 6-fiber total

08 = 8-fiber total

12 = 12-fiber total

### 8 – Dash

### 9, 10 – Adapter Type

03 = Duplex SC Adapter  
(6-fiber only)

10 = Duplex LC Adapter  
(8 or 12-fiber only)

### 11, 12 – Polarity

AS = Method A, standard

AF = Modified Method A,  
pair-flipped

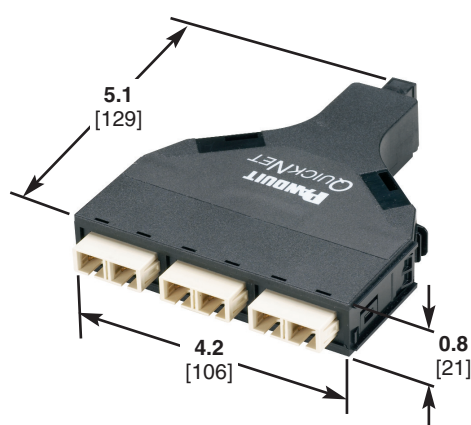
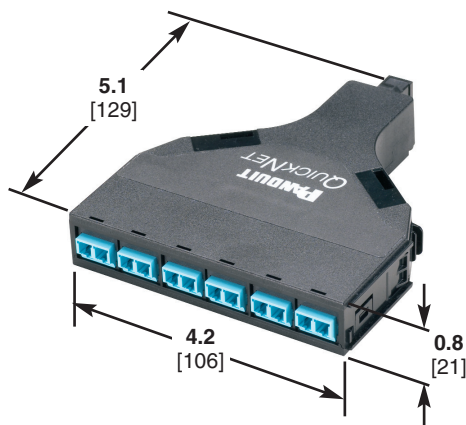
B1 = Method B, B1 (1-1 array)

B2 = Method B, B2 (1-12 array)

U = Universal

Note: AS and AF used as a pair in a two cassette method A link.  
B1 and B2 used as a pair in a two cassette method B link.

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#### Notes:

- Reference TIA-568-C.0 for details on Method A and Method B Polarities.
- Method B Cassettes are available upon request. Please contact Panduit for details.

\*MTP is a registered trademark of US Conec Ltd.

Dimensions are in inches. [Dimensions in brackets are metric].

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