QuickNet™ SFQ Series MTP* Fiber Optic Cassettes

technical information

QuickNet™ SFQ Series MTP* Fiber Optic Cassettes comply with IEEE 802.3ae 10 GbE and ANSI T11.2 Fibre Channel requirements. Fiber optic cassettes support network data rates up to 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 of <26dB. 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* ribbon interconnect cable assemblies. High-density cassette patch panels shall 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

Fiber types:	Singlemode: Multimode:	OS1/OS2 9/125µm OM1 62.5/125µm OM2 50/125µm OM3 10Gig 50/125µm OM4 10Gig 50/125µm
Front connectivity:	SC Duplex or LC Duplex adapters Multimode with PC Polish Singlemode with UPC Polish	
Rear connectivity:	Multimode: Singlemode:	MTP* adapter(s) with male ferrules (pins) and PC Polish MTP* adapters with male ferrules (pins) and APC Polish

environmental properties

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

performance properties

Insertion loss (link loss):	Optimized (per fiber): 0.5dB max. Standard (per fiber): 0.75dB max.	
Return loss:	Per fiber:	>20dB (OM1/OM2) >26dB (OM3/OM4) >55dB (OS1/OS2)
Connector durability:	Connectors meet TIA/EIA-568C.3 A.4.9 Durability: 500 mating cycles	
Fiber count:	6, 8, and 12	
Split sleeve material:	Zirconia ceramic: Phosphor bronze:	Optimized 10Gig and 10Gig OM3 and OM4 multimode cassettes OS1/OS2 singlemode cassettes OM1 and OM2 multimode cassettes

standards

Connectivity meets or exceeds TIA/EIA-568-C.3 performance requirements.
Supports IEEE 802.3ae (10 Gigabit Ethernet) and ANSI T11.2 (Fibre Channel) channel and link specifications.
Compliant with ROHS 2002/95/EC

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
  5 = OM2 Fiber (50/125µm);
    Available with standard loss only
  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
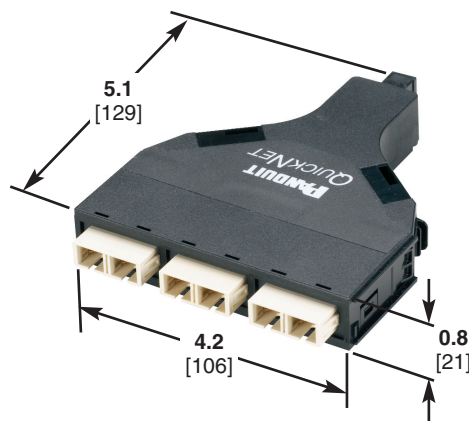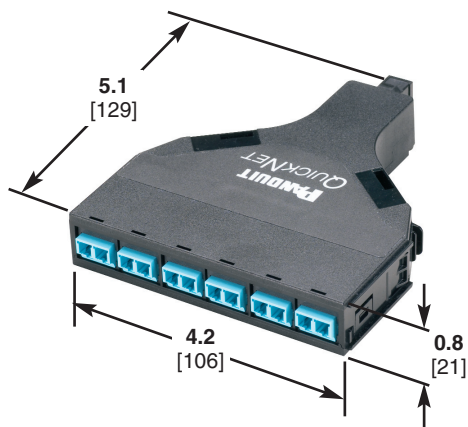 AF = Modified Method A,
    pair-flipped
  B1 = Method B, B1 (1-1 array)
  B2 = Method B, B2 (1-12 array)

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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5.1 [129]   4.2 [106]   0.8 [21]

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Notes:
1. Reference TIA-568-C.0 for details on Method A and Method B Polarities.
2. 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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