

specifications

Pre-terminated high-density modular fiber optic cassettes shall comply with IEEE 802.3ae 10 GbE and ANSI T11.2 Fibre Channel requirements. Fiber optic cassettes shall support network data rates up to 10 Gb/s for link lengths up to 300 meters using laser optimized OM3 fiber. Optimized cassettes shall provide insertion loss of 0.5dB max., and standard cassettes shall provide 1.0dB max. to meet IEEE 802.3ae max. channel loss specification of <26dB. Cassettes shall employ high performance MTP* connectors on the rear of the units routed to 12 or 24 duplex keyed LC adapters on the patch field side. Keyed LC adapters shall be mechanically keyed with color-specific positive and negative keying features to prevent unauthorized mating with unlike keyed or non-keyed connectors. Cassettes shall interconnect with high-density SFF MTP* ribbon interconnect cable assemblies. High-density cassette enclosures shall hold up to 4 cassettes, allowing up to 96 fiber connections to be deployed in one rack unit (1 RU).



technical information

Standards requirements:	Connectivity meets or exceeds TIA/EIA-568-B.3 performance requirements Supports IEEE 802.3ae (10 Gigabit Ethernet) and ANSI T11.2 (Fibre Channel) channel and link specifications MTP* connector exceeds EIA/TIA-455-21A: 1000 mating cycles (multimode) and 500 mating cycles (singlemode)
Split sleeve material:	Zirconia ceramic
Insertion loss:	Optimized (per fiber): 0.5dB max. Standard (per fiber): 0.75dB typical, 1.0dB max.
Return loss:	Per fiber: ≥26dB (10Gig™ multimode), ≥20dB (multimode), ≥55dB (singlemode)

key features and benefits

Color-specific keys with positive and negative keying features	Mechanically and visually distinguish connections to prevent unauthorized insertion into unlike keyed or non-keyed ports, allow network design flexibility and versatility, and accommodate more discrete networks
Optimized performance available	Optical performance enhancement through unique industry-leading proprietary MTP* polishing processes Optimized connector-to-connector mating resulting in low insertion loss
High-density modular design	Maximizes density with up to 96 fiber connections in 1RU for efficient utilization of rack space Design flexibility allows for easy maintenance and upgrade, providing a highly scalable solution Combination of design features provides lower total cost of ownership
MTP* 12-fiber connector	Provides reduced overall insertion loss with low channel to channel variability for improved channel link loss performance
100% tested	Verified optical performance provides consistent high performance and reliability for improved network integrity
Pre-terminated modular cassette system	Provides improved reliability and quick deployment to reduce installation time and cost
Certified 10 GbE OM3 performance	10Gig™ Fiber Optic Cassettes are tested per IEEE 802.3ae 10 GbE to support network transmission speeds up to 10 Gb/s for link lengths up to 300 meters at 850nm Meets Fibre Channel standards when used with PANDUIT® OPTI-CORE® Fiber Optic Cables
QUICKNET™ product identification	Data label on each product includes port identification and Q.C.number for quick identification and 100% traceability

applications

The Keyed LC QUICKNET™ MTP* Fiber Optic Cassette is a component of the keyed LC and QUICKNET™ Fiber Optic Cabling System product groups. Keyed LC QUICKNET™ MTP* Cassettes are used in high-density network applications as specified in the Data Center Cabling Standard TIA 942 for cross connects in main distribution, horizontal distribution, and equipment distribution areas. Keyed LC QUICKNET™ MTP* Cassettes support specialized infrastructure deployments that require a level of visual and

mechanical differentiation, and physical layer security. The QUICKNET™ Pre-Terminated Fiber Optic Cabling System meets the demands of Gigabit Ethernet, 10 Gigabit Ethernet, and high-speed Fibre Channel systems while maintaining compatibility with Ethernet, Fast Ethernet, and ATM. The high-density modular cassette fits into OPTICOM® QUICKNET™ Rack Mount Fiber Cassette Enclosures to ensure efficient use of space and rapid network deployment.

Keyed LC QUICKNET™ Optimized MTP* Cassettes – 6 Keyed LC to 1 MTP* (12-fiber)

Keyed A (black):	FCXO-12-10ABL
Keyed B (red):	FCXO-12-10BRD
Keyed C (green):	FCXO-12-10CGR
Keyed D (yellow):	FCXO-12-10DYL
Keyed E (orange):	FCXO-12-10EOR
Keyed F (dark blue):	FCXO-12-10FDB

Keyed LC QUICKNET™ Optimized MTP* Cassettes – 12 Keyed LC to 2 MTP* (24-fiber)

Keyed A (black):	FCXO-24-10ABL
Keyed B (red):	FCXO-24-10BRD
Keyed C (green):	FCXO-24-10CGR
Keyed D (yellow):	FCXO-24-10DYL
Keyed E (orange):	FCXO-24-10EOR
Keyed F (dark blue):	FCXO-24-10FDB

Keyed LC QUICKNET™ MTP* Cassettes – 6 Keyed LC to 1 MTP* (12-fiber)

Keyed A (black):	FC^12-10ABL
Keyed B (red):	FC^12-10BRD
Keyed C (green):	FC^12-10CGR
Keyed D (yellow):	FC^12-10DYL
Keyed E (orange):	FC^12-10EOR
Keyed F (dark blue):	FC^12-10FDB

Keyed LC QUICKNET™ MTP* Cassettes – 12 Keyed LC to 2 MTP* (24-fiber)

Keyed A (black):	FC^24-10ABL
Keyed B (red):	FC^24-10BRD
Keyed C (green):	FC^24-10CGR
Keyed D (yellow):	FC^24-10DYL
Keyed E (orange):	FC^24-10EOR
Keyed F (dark blue):	FC^24-10FDB

Keyed LC OPTI-CORE® Duplex OFNR Patch Cords (Keyed LC to Keyed LC)

Keyed A (black):	F^E10A-10AM‡
Keyed B (red):	F^E10B-10BM‡
Keyed C (green):	F^E10C-10CM‡
Keyed D (yellow):	F^E10D-10DM‡
Keyed E (orange):	F^E10E-10EM‡
Keyed F (dark blue):	F^E10F-10FM‡

Keyed LC OPTI-CORE® Hybrid Duplex OFNR Patch Cords (Keyed LC to LC)

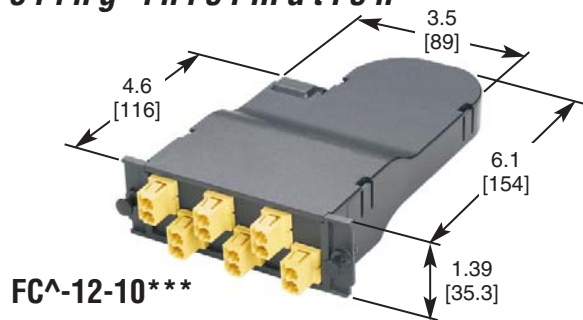
Keyed A (black):	F^E10A-10M‡
Keyed B (red):	F^E10B-10M‡
Keyed C (green):	F^E10C-10M‡
Keyed D (yellow):	F^E10D-10M‡
Keyed E (orange):	F^E10E-10M‡
Keyed F (dark blue):	F^E10F-10M‡

^Substitute for fiber type:
X (OM3 – 10Gig™ 50/125µm), 5 (OM2 – 50/125µm), 6 (OM1 – 62.5/125µm) or 9 (OS1/OS2 – 9/125µm).
‡Substitute for length in meters: 1–10, 15, 20 or 30.
Contact Customer Service for other available lengths.

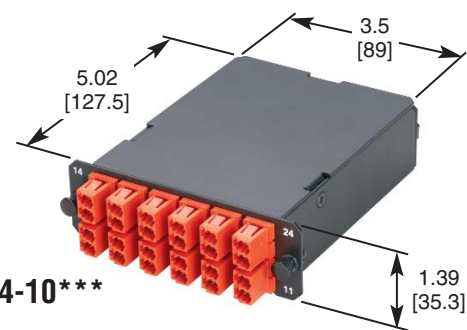
*MTP is a registered trademark of US Conec Ltd.

Keyed LC QUICKNET™ MTP* Fiber Optic Cassettes

ordering information



FC[^]12-10***



FC[^]24-10***

Dimensions are in inches [Dimensions in brackets are in millimeters]

Key Type and Backbone Color (Adapter Key Shown)	Keyed LC 12-Fiber Cassette 6 Keyed LC to 1 MTP*	Keyed LC 24-Fiber Cassette 12 Keyed LC to 2 MTP*	Fiber Type	Insertion Loss	Return Loss
A - Black 	FCXO-12-10ABL	FCXO-24-10ABL	Optimized 10Gig™ 50/125µm OM3	0.5dB max.	≥ 26dB
	FCX-12-10ABL	FCX-24-10ABL	10Gig™ 50/125µm OM3	1.0dB max.	≥ 26dB
	FC5-12-10ABL	FC5-24-10ABL	50/125µm OM2	1.0dB max.	≥ 20dB
	FC6-12-10ABL	FC6-24-10ABL	62.5/125µm OM1	1.0dB max.	≥ 20dB
	FC9-12-10ABL	FC9-24-10ABL	9/125µm OS1	1.0dB max.	≥ 55dB
B - Red 	FCXO-12-10BRD	FCXO-24-10BRD	Optimized 10Gig™ 50/125µm OM3	0.5dB max.	≥ 26dB
	FCX-12-10BRD	FCX-24-10BRD	10Gig™ 50/125µm OM3	1.0dB max.	≥ 26dB
	FC5-12-10BRD	FC5-24-10BRD	50/125µm OM2	1.0dB max.	≥ 20dB
	FC6-12-10BRD	FC6-24-10BRD	62.5/125µm OM1	1.0dB max.	≥ 20dB
	FC9-12-10BRD	FC9-24-10BRD	9/125µm OS1	1.0dB max.	≥ 55dB
C - Green 	FCXO-12-10CGR	FCXO-24-10CGR	Optimized 10Gig™ 50/125µm OM3	0.5dB max.	≥ 26dB
	FCX-12-10CGR	FCX-24-10CGR	10Gig™ 50/125µm OM3	1.0dB max.	≥ 26dB
	FC5-12-10CGR	FC5-24-10CGR	50/125µm OM2	1.0dB max.	≥ 20dB
	FC6-12-10CGR	FC6-24-10CGR	62.5/125µm OM1	1.0dB max.	≥ 20dB
	FC9-12-10CGR	FC9-24-10CGR	9/125µm OS1	1.0dB max.	≥ 55dB
D - Yellow 	FCXO-12-10DYL	FCXO-24-10DYL	Optimized 10Gig™ 50/125µm OM3	0.5dB max.	≥ 26dB
	FCX-12-10DYL	FCX-24-10DYL	10Gig™ 50/125µm OM3	1.0dB max.	≥ 26dB
	FC5-12-10DYL	FC5-24-10DYL	50/125µm OM2	1.0dB max.	≥ 20dB
	FC6-12-10DYL	FC6-24-10DYL	62.5/125µm OM1	1.0dB max.	≥ 20dB
	FC9-12-10DYL	FC9-24-10DYL	9/125µm OS1	1.0dB max.	≥ 55dB
E - Orange 	FCXO-12-10EOR	FCXO-24-10EOR	Optimized 10Gig™ 50/125µm OM3	0.5dB max.	≥ 26dB
	FCX-12-10EOR	FCX-24-10EOR	10Gig™ 50/125µm OM3	1.0dB max.	≥ 26dB
	FC5-12-10EOR	FC5-24-10EOR	50/125µm OM2	1.0dB max.	≥ 20dB
	FC6-12-10EOR	FC6-24-10EOR	62.5/125µm OM1	1.0dB max.	≥ 20dB
	FC9-12-10EOR	FC9-24-10EOR	9/125µm OS1	1.0dB max.	≥ 55dB
F - Dark Blue 	FCXO-12-10FDB	FCXO-24-10FDB	Optimized 10Gig™ 50/125µm OM3	0.5dB max.	≥ 26dB
	FCX-12-10FDB	FCX-24-10FDB	10Gig™ 50/125µm OM3	1.0dB max.	≥ 26dB
	FC5-12-10FDB	FC5-24-10FDB	50/125µm OM2	1.0dB max.	≥ 20dB
	FC6-12-10FDB	FC6-24-10FDB	62.5/125µm OM1	1.0dB max.	≥ 20dB
	FC9-12-10FDB	FC9-24-10FDB	9/125µm OS1	1.0dB max.	≥ 55dB

Keyed LC OPTI-CORE® Patch Cords and Pigtails



F[^]E10[^]-10[^]M‡

QUICKNET™ MTP* Interconnect Cable Assemblies



F[^]12D5-5M‡

OPTICOM® QUICKNET™ Rack Mount Fiber Cassette Enclosures



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*MTP is a registered trademark of US Conec Ltd.

^Substitute for fiber type: XO = Optimized 10Gig™ 50/125µm OM3 for cassettes only, X = 10Gig™ 50/125µm OM3, 5 = 50/125µm OM2, 6 = 62.5/125µm OM1 or 9 = 9/125µm OS1/OS2.

***Substitute for key type and color: ABL for A – Black, BRD for B – Red, CGR for C – Green, DYL for D – Yellow, EOR for E – Orange, or FDB for F – Dark Blue.

^Substitute for key type and color: A for A – Black, B for B – Red, C for C – Green, D for D – Yellow, E for E – Orange, or F for F – Dark Blue.

‡Substitute for length in meters: 1–10, 15, 20 or 30. Contact Customer Service for other available lengths or universal reference patch cords.

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For more information

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