



US Conec manufactures durable MTP® brand connectors that provide quick connection for up to 72 optical fibers. Connection integrity is provided by adapter latches which are locked into place on the connector plug by a spring loaded sliding mechanism. Precision alignment is achieved with patented guide pins combined with the tightly controlled guide pin holes on US Conec's MT ferrules. Removable housings allow for quick change of gender, ferrule cleaning, interferometry or connector re-polishing. US Conec's MTP brand connector components are fully compliant with IEC Standard 61754-7 and TIA 604-5 - Type MPO.

### Features

- Patented floating ferrule design ensures fiber contact integrity
- Terminates ribbon fiber or loose individual fibers
- Designed for low loss and standard loss SM and MM applications
- Patented elliptical guide pin tip to minimize ferrule debris
- Ruggedized round cable, oval cable and bare ribbon options available
- Compatible with US Conec MT ferrules in fiber counts 4 - 24
- Color coded housings available to differentiate fiber type, polish type and/or connector grade
- Housing is removable for quick change of pin clamps and easy ferrule cleaning / re-polishing
- Alignment achieved with high precision guide pins
- No-epoxy housing design
- Family of bulkhead adapters available

### Specifications

	MM MT Elite® Multimode MT Ferrule	Standard Multimode MT Ferrule	SM MT Elite® Single-mode MT Ferrule	Standard Single-mode MT Ferrule
<b>Insertion Loss</b>	0.1dB Typical (All Fibers) 0.35dB Maximum (Single Fiber) <sup>2,3</sup>	0.20dB Typical (All Fibers) 0.60dB Maximum (Single Fiber) <sup>2,3</sup>	0.10dB Typical (All Fibers) 0.35dB Maximum (Single Fiber) <sup>1</sup>	0.25dB Typical (All Fibers) 0.75dB Maximum (Single Fiber) <sup>1</sup>
<b>Optical Return Loss</b>	> 20dB	> 20dB	> 60dB (8° Angle Polish)	> 60dB (8° Angle Polish)

<sup>1</sup> As tested per ANSI/EIA-455-171 Method D3

<sup>2</sup> As tested per ANSI/EIA-455-171 Method D1

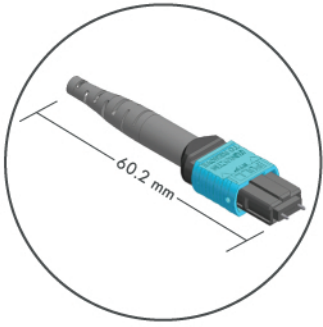
<sup>3</sup> As tested with proposed encircled flux launch condition on 50um fiber and 850nm per IEC 61280-4-1

### Applications & Associated Standards

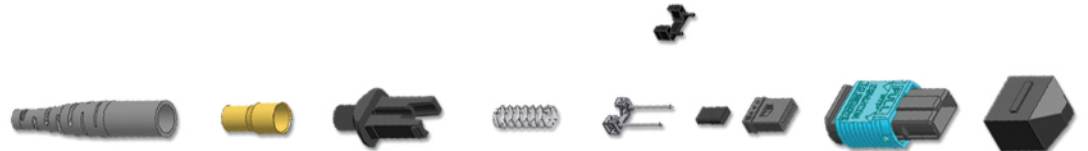
- Array trunk cables
- Array fiber to single fiber fanouts and cassettes
- High fiber density card edge access
- Optical switching interframe connections
- Meets IEC Standard 61754-7
- Meets TIA/EIA 604-5 Type MPO
- Structured cabling per TIA-568-C
- Parallel Optics
  - Optical Internetworking Forum (OIF) Compliant
  - Infiniband Compliant
  - 10G Fiber Channel Compliant
  - 40G and 100G IEEE 802.3
  - SNAP 12
  - POP 4
  - QSFP

## Round Strain Relief Hardware for Controlled Environments

ø 3.0mm - 5.5mm Nominal Cable OD

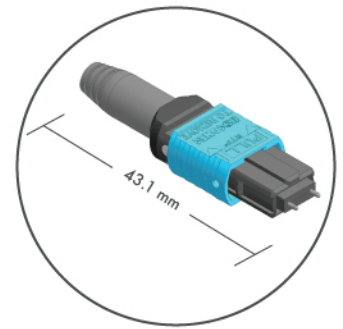


Round, multi-fiber interconnect cables with loose, individual fibers provide cable routing and performance advantages over traditional ribbon based cables. By eliminating the preferential bend associated with ribbon, round cables can be routed and mechanically loaded in any axis relative to the MTP® connector port. US Conec's round MTP® hardware components are designed for easy termination to the loose fiber cables via the use of a simple, US Conec ribbonization process. Contact US Conec customer service for a copy of AEN 1408 which provides detailed instructions on the process.



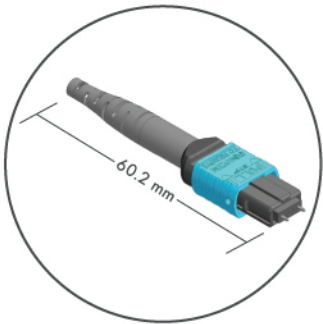
## Short MTP® Round for Bend Insensitive Fiber Applications

With the availability of bend insensitive single mode and multimode fibers, US Conec has introduced a reduced length cable exit for round MTP® hardware. This version takes advantage of the ability to route fibers with a tighter bend radius. The new hardware is ideal when cable management space in front of the equipment or rack bulkhead is limited.



## High Spring Force

ø 3.0mm - 5.5mm Nominal Cable OD

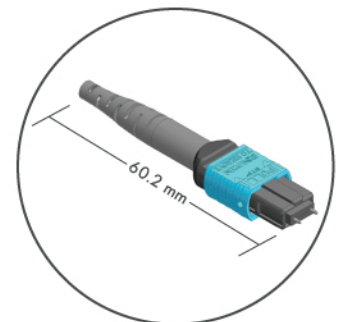


The high spring force MTP® connector enables low-loss structured cabling links with 24 fiber connectivity to support next generation 40G, 100G and 120G parallel optics. The increased connector spring force enables fiber tip physical contact for all fibers in up to 24F connectors with typical industry accepted endface geometry. The higher spring force MTP® hardware is available for all controlled environment cable types.

## Round Strain Relief Hardware for Uncontrolled Environments

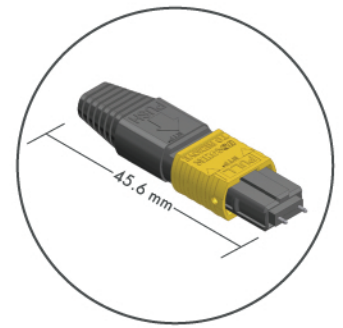
ø 3.0mm - 3.6mm Nominal Cable OD

US Conec's enhanced performance MTP® connector hardware components are capable of withstanding the stringent performance Objectives of GR-1435 issue 2. These precision engineered components use state of the art materials and injection molding techniques to offer the maximum strength and optical performance through the most severe non-hardened connector environmental exposure and mechanical loading. These hardware components are ideal for FTtx and campus network applications.

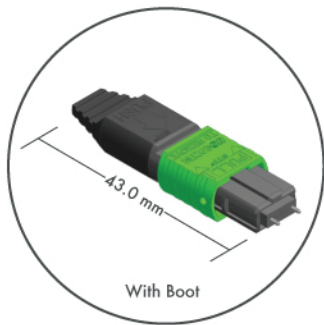


## Oval Strain Relief Hardware

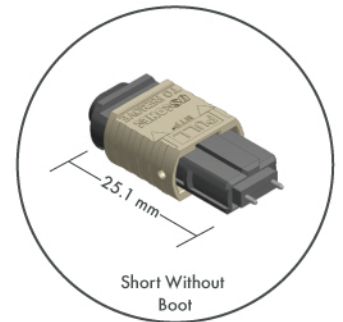
US Conec's classic oval MTP® brand hardware easily terminates to ribbon based interconnect cables. The crimping mechanism is designed to accommodate a wide range of cable jacket materials and thicknesses.



## Bare Ribbon With Boot & Short Bare Ribbon Without Boot Hardware



Two MTP® brand hardware kits are available for on-card or intra-card multi-fiber connector applications suitable for termination directly to bare ribbon fiber. The bare ribbon package with the boot provides bend relief to the cable while the short MTP® bare ribbon connector offers the smallest PCB surface area consumption available on the market.



# Ordering Information

Cable Type	Performance	Gender	Color	MTP® Kit P/N
<b>Ø 3.0mm Controlled</b>	Multimode	Female	Aqua	8198
			Beige	8193
		Male	Aqua	8200
			Beige	8190
	Multimode MTP Elite®	Male	Aqua	12513
	Single-Mode	Female	Green	8194
		Male		8191
	Single-Mode MTP Elite®	Female	Mustard	8195
		Male		8192

Cable Type	Performance	Gender	Color	MTP® Kit P/N
<b>Ø 5.0mm Controlled</b>	Multimode	Female	Aqua	13169
			Beige	13172
		Male	Aqua	13170
			Beige	13173
	Multimode MTP Elite®	Male	Aqua	13171
	Single-Mode	Female	Green	13174
		Male		13175
	Single-Mode MTP Elite®	Female	Mustard	13176
		Male		13177

Cable Type	Performance	Gender	Color	MTP® Kit P/N
<b>Ø 3.6mm Controlled</b>	Multimode	Female	Aqua	12352
			Beige	12349
		Male	Aqua	12353
			Beige	12346
	Multimode MTP Elite®	Male	Aqua	12522
	Single-Mode	Female	Green	12350
		Male		12347
	Single-Mode MTP Elite®	Female	Mustard	12351
		Male		12348

Cable Type	Performance	Gender	Color	MTP® Kit P/N
<b>Ø 5.5mm Controlled</b>	Multimode	Female	Aqua	13178
			Beige	13181
		Male	Aqua	13179
			Beige	13182
	Multimode MTP Elite®	Male	Aqua	13180
	Single-Mode	Female	Green	13183
		Male		13184
	Single-Mode MTP Elite®	Female	Mustard	13185
		Male		13186

Cable Type	Performance	Gender	Color	MTP® Kit P/N
<b>Ø 3.6mm Controlled Short Boot</b>	Multimode	Female	Aqua	13610
			Beige	13613
		Male	Aqua	13611
			Beige	13614
	Multimode MTP Elite®	Male	Aqua	13612
	Single-Mode	Female	Green	13615
		Male		13616
	Single-Mode MTP Elite®	Female	Mustard	13617
		Male		13618

Cable Type	Performance	Gender	Color	MTP® Kit P/N
<b>Ø 3.0mm Uncontrolled</b>	Multimode MTP Elite®	Female	Aqua	13187
		Male		13188
	Single-Mode MTP Elite®	Female	Mustard	12324
		Male		12325

Cable Type	Performance	Gender	Color	MTP® Kit P/N
<b>Ø 3.6mm Uncontrolled</b>	Multimode MTP Elite®	Female	Aqua	13630
		Male		13631
	Single-Mode MTP Elite®	Female	Mustard	13628
		Male		13629

Cable Type	Performance	Gender	Color	MTP® Kit P/N
<b>Ø 4.5mm Controlled</b>	Multimode	Female	Aqua	13159
			Beige	13162
		Male	Aqua	13160
			Beige	13163
	Multimode MTP Elite®	Male	Aqua	13161
	Single-Mode	Female	Green	13164
		Male		13165
	Single-Mode MTP Elite®	Female	Mustard	13166
		Male		13167

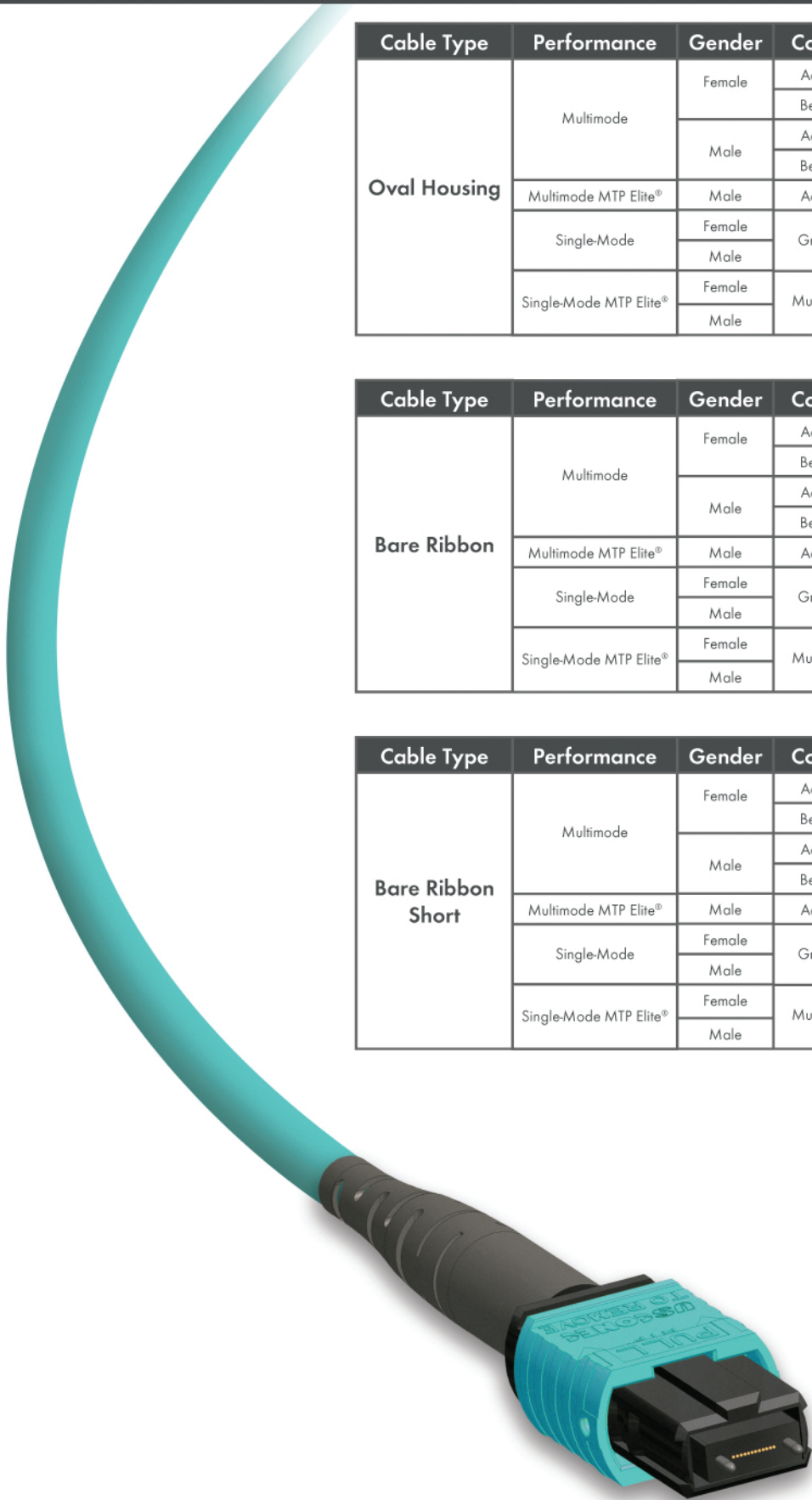
Cable Type	Performance	Gender	Color	MTP® Kit P/N
<b>Ø 3.0-5.5mm High Spring Force</b>	Multimode MTP Elite® ø3.0mm	Female	Aqua	13528
		Male		13529
	Multimode MTP Elite® ø3.6mm	Female		13530
		Male		13531
	Multimode MTP Elite® ø4.5mm	Female		13534
		Male		13535
	Multimode MTP Elite® ø5.0mm	Female		13648
		Male		13649
	Multimode MTP Elite® ø5.5mm	Female		13650
		Male		13651

Ferrules sold separately. See back for ordering information.

Cable Type	Performance	Gender	Color	MTP® Kit P/N
Oval Housing	Multimode	Female	Aqua	7928
			Beige	6237
		Male	Aqua	7927
			Beige	6238
	Multimode MTP Elite®	Male	Aqua	12514
	Single-Mode	Female	Green	6248
		Male		6249
	Single-Mode MTP Elite®	Female	Mustard	6257
Male		6258		

Cable Type	Performance	Gender	Color	MTP® Kit P/N
Bare Ribbon	Multimode	Female	Aqua	8475
			Beige	6239
		Male	Aqua	8476
			Beige	6240
	Multimode MTP Elite®	Male	Aqua	12515
	Single-Mode	Female	Green	6250
		Male		6251
	Single-Mode MTP Elite®	Female	Mustard	6259
Male		6260		

Cable Type	Performance	Gender	Color	MTP® Kit P/N
Bare Ribbon Short	Multimode	Female	Aqua	8819
			Beige	6241
		Male	Aqua	8820
			Beige	6242
	Multimode MTP Elite®	Male	Aqua	12717
	Single-Mode	Female	Green	6252
		Male		6253
	Single-Mode MTP Elite®	Female	Mustard	6261
Male		6262		



Ferrules sold separately. See back for ordering information.



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For additional information about MTP® Connectors or MT Ferrules, please contact Customer Service at 828-323-8883 or visit our web site at [www.usconec.com](http://www.usconec.com)

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