

MTP® PRO Connector

The MTP® PRO connector is the newest addition to the US Conec MTP® brand MPO product family. This state-of-the-art connector brings simplified use to the MPO format by offering optimal field flexibility and enhanced performance, all while leveraging the proven features and technology of US Conec’s MTP® connectors. With a novel design focused on simplicity and reliability, the MTP® PRO connector offers quick and effective polarity and pin reconfiguration in the field or factory while ensuring product integrity and performance. Simple field or factory configurability saves time, eliminates costly errors, requires less pre-planning and less cabling inventory, resulting in a total lower cost cabling infrastructure.

Features:

- **Field pin change**
Field friendly configuration while maintaining product integrity, fail safe handling of pins and easy color identification
- **Field polarity change**
Simple one-step color coded polarity change feature without removing connector housing
- **Debris reduction system**
Static dissipative material and housing sleeve encapsulating geometry optimized to reduce debris
- **DirectConec™ Push-Pull System**
Robust push-pull insertion and extraction via the integrated strain-relief boot for ease of use and access
- **Environmentally friendly**
RoHS and REACH compliant without exemptions

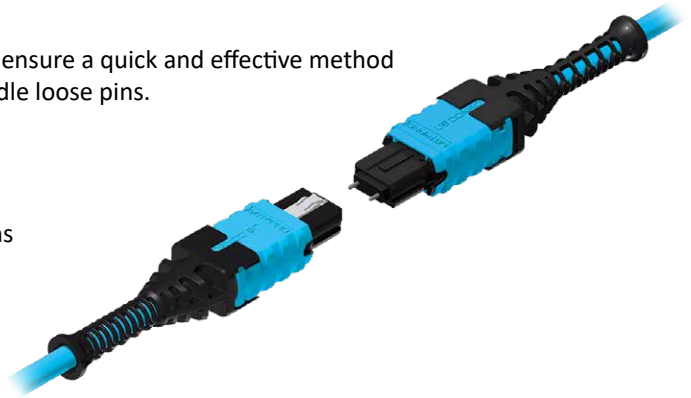


Field Pin Change

Simple and Failsafe Pin Change

US Conec's MTP® PRO design is focused on simplicity and reliability to ensure a quick and effective method for pin configuration without the need to remove the housing or handle loose pins.

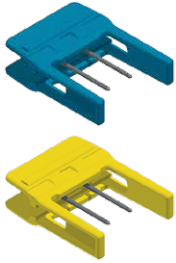
- Robust tool for easy pin change process
- Factory color designated pin clamp for easy identification
- Reusable color designated pin exchanger for safe handling of pins
- Field friendly configuration with no risk for damage
- Reliable pin retention force exceeding IEC requirement of 19.6N
- No handling of loose pins
- No housing removal necessary



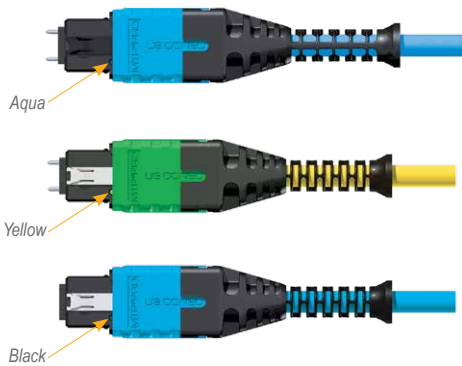
Field Pin ID Color Code

| Color | Description |
|--------|-----------------------|
| Aqua | MM Elite from factory |
| Yellow | SM Elite from factory |
| Black | Female from factory |

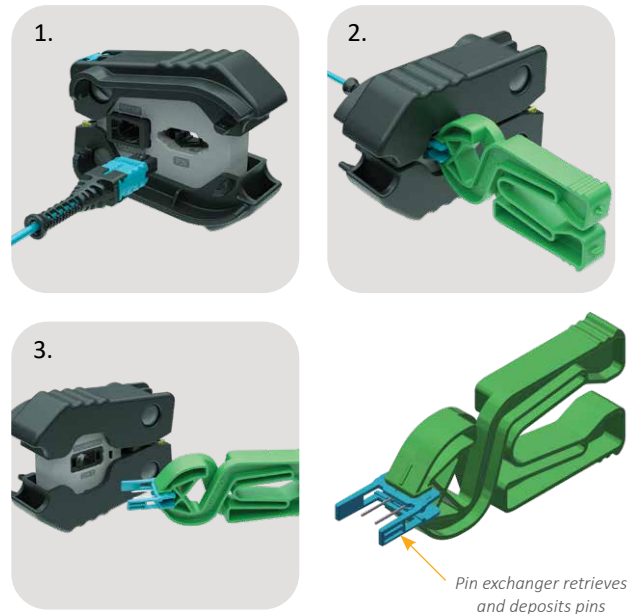
Pin Exchanger :



Pin Clamp Color Identification:



MTP® PRO Pin Change Tool



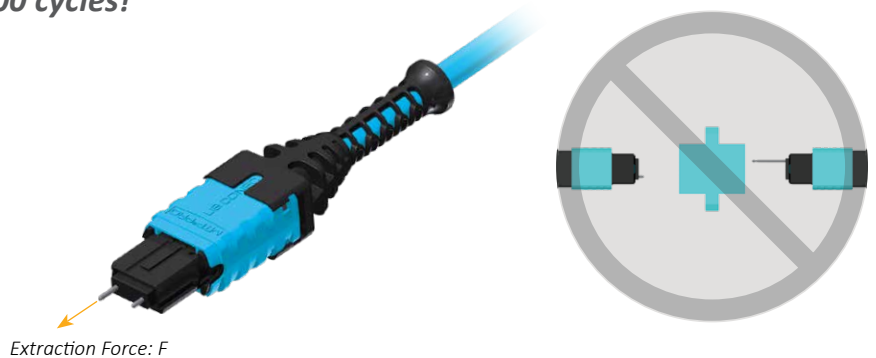
Eliminating Pin Transfer

As we learned in the past, plastic pin keeper components simply don't have enough structure to adequately hold the 700µm MT guide pins in place. US Conec novel pin keeper design for the MTP® PRO employs a rotating metal pin keeper which is securely and automatically locked into place via use of the ferrule spring. Actuation of the specially designed tool is necessary to rotate the pin keeper when changing from pinned to unpinned.

No degradation in Pin Retention after 200 cycles!

| MTP® PRO Guide Pin Pull Out Force | | Competitive Guide Pin Pull Out Force | |
|-----------------------------------|------|--------------------------------------|-----|
| Force (N) | | Force (N) | |
| 1 | 47.8 | 1 | 7.2 |
| 2 | 49.8 | 2 | 6.3 |
| 3 | 47.9 | 3 | 4.3 |
| 4 | 48.7 | 4 | 6.6 |

*IEC 61754-7 pin retention force: 19.6N Minimum



DirectConec™ Push-Pull System

Simplified Use: Easy insertion and extraction

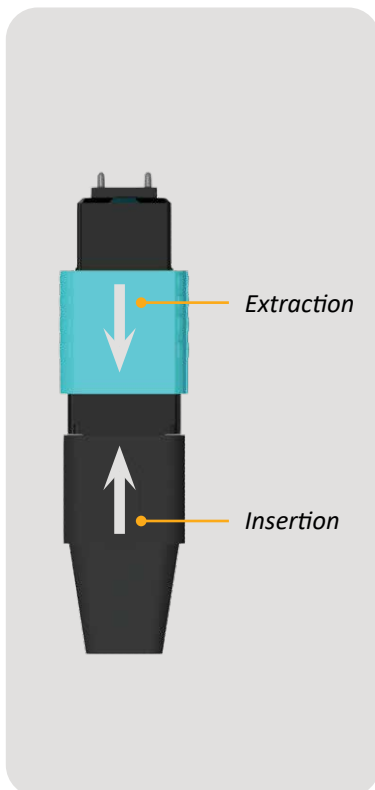
The push-pull functionality of the traditional MPO format requires the installer to push on the strain relief portion of the connector for insertion while extracting the connector by pulling on the often hard to reach external sleeve.

The MTP® PRO with integrated DirectConec™ technology simplifies this action by re-inventing the insertion function of the MPO format such that the strain relief boot can be used for insertion in addition to the normal extraction as is the natural tendency of the installer. The MTP® PRO push-pull sleeve has an increased length, making it easier to access without compromising connector footprint. In addition, the MTP® PRO DirectConec™ system enables even easier access to mate and unmate the connector in extremely dense applications.



- Simply push on the DirectConec™ push-pull boot for insertion
- Pull on the DirectConec™ push-pull boot for extraction
- Fully intermateable with standards compliant MPO adapters and plugs
- Reduced insertion and extract forces

Traditional MPO



MTP® PRO

