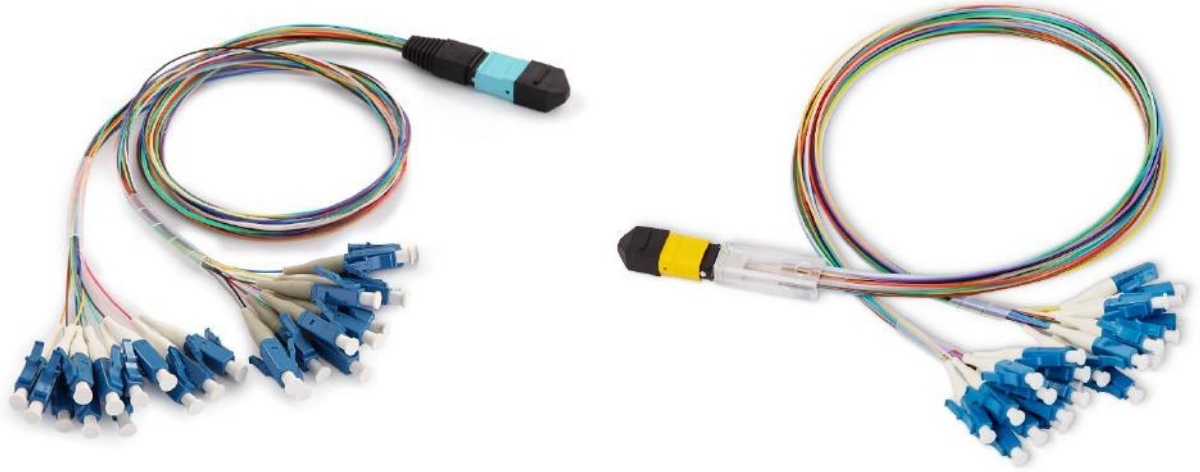
# MTP/MPO Hydra Cable



MPO/MTP Hydra cable assemblies are deployed inside plug and play cassette modules. It is used for multi-fiber to single-fiber splitting out interconnects. This solution is a 12-colored 0.9mm cable utilizing MPO/MTP connector on one end and generic connectors (such as LC, SC, FC, etc.) on the other end. They are available for purchase as a bundle with plug and play modules, MPO/MTP Adapter Plates, and other solutions. It is fully configurable, available in 8/12/16/24 fibers versions as well as Multi-mode (Standard 50/125, 62.5/125, BI 10Gig 50/125) and Single-mode fiber types.

## Applications

- Data Center Interconnect
- Backbone Installations
- Telecommunication Networks
- Broadband/CATV Networks
- LAN/WAN Premises

## Features

- Low insertion loss and high return loss
- High precision connector
- PC UPC APC end face polish
- Fiber count available in 4~24
- Option for LSZH, PVC or Hytrel loose tube
- 100% factory terminated and tested
- Customized length available
- ROHS Compliant



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## Standards compliance

- EIA/TIA 604 series
- IEC 61754 Series
- IEC 61753-1
- GR 1435-CORE
- GR 326-CORE

## General Specification

| Construction | | Description |
|---|---|---|
| Fiber Count | | 8~24 Fibers |
| Fiber Mode | | Single mode: G652/G657<br>Multimode:OM1 OM2 OM3; OM4 |
| Fiber Brand | | SMF-28® Ultra optical fiber<br>Corning ClearCurve® multimode fiber |
| Cable Jacket Material | | Low Smoke Zero Halogen (LSZH)<br>PVC<br>Hytrel |
| Cable Jacket Ratings | | Riser (OFNR)<br>Plenum (OFNP) |
| Cable Jacket diameter | | 600µm; 900µm |
| Cable Jacket Color | | Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Purple, Pink, Aqua |
| Polarity | | Customized |
| MPO/ MTP | Ferrule | 12F, 16F, 24F |
| | Connector Type | MTP, MPO |
| | Connector Brand | US Conec MTP, Senko MPO, Nissin MPO, Sanwa MPO, FURUKAWA MPO |
| | Connector Color | **Ferrule** / **SM(APC)** / **SM(PC)** / **OM3** / **OM4**<br>**Low loss** / Yellow / Yellow / Aqua / Magenta<br>**Standard** / Green / Blue / Aqua / Magenta<br>or customized |
| | Boot Color | Green/Black/ or Customized |
| Single-fiber connector | | LC, SC, FC, etc. |
| Operating Temperature | | -20°C to +70°C |
| Storage Temperature | | -40°C to +85°C |

## Technical Specification

### MPO / MTP Termination

| Optical Properties | Single mode | | Multimode | |
|---|---|---|---|---|
| Insertion Loss (dB) | Low loss | Standard | Low loss | Standard |
| | ≤0.35(Typical:≤0.25) | ≤0.75(Typical:≤0.4) | ≤0.35(Typical:≤0.2) | ≤0.60(Typical:≤0.35) |



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| | | |
|---|---|---|
| Return Loss (dB) | PC⩾50; APC⩾60 | PC⩾20 |
| Wavelength (nm) | 1310/1550 | 850/1300 |
| Durability | ⩽0.2 (dB)typical change, 50 matings | |

## Single-fiber connector Termination

| Optical Properties | Single mode | Multimode |
|---|---|---|
| Insertion Loss (dB) | UPC⩽0.2; APC⩽0.3 | PC⩽0.2 |
| Return Loss (dB) | PC⩾50; APC⩾60 | PC⩾20 |
| Wavelength (nm) | 1310/1550 | 850/1300 |
| Durability | ⩽0.3(dB)typical change, 500 matings | |

## Transparent Fanout Kits

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