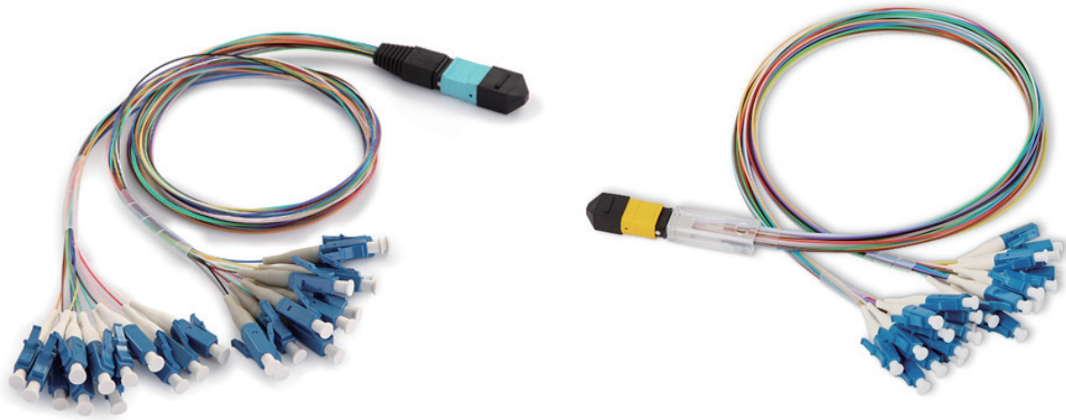


## MTP/MPO Hydra Cable



### Description

MTP®/MPO Hydra cable assemblies provide high-density multi-fiber to single-fiber connectivity for plug-and-play cabling systems. Featuring a direct breakout construction, the multi-fiber MTP®/MPO interface splits directly into multiple simplex connectors, enabling an efficient transition from backbone trunk links to discrete equipment or module ports. Assemblies are fully configurable in fiber count, connector type, and cable configuration, and are available with both multimode and single-mode fibers.

### Features

- Direct breakout from MTP®/MPO to multiple simplex connectors
- Flexible breakout configurations and connector options
- Multimode and single-mode fiber options
- Factory terminated and tested

### Applications

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

## Standards compliance

- TIA-604 series
- IEC 61754 Series
- IEC 61753-1
- Telcordia GR-326-CORE
- Telcordia GR-1435-CORE
- RoHS Compliant

## General Specification

Constructions		Descriptions					
Fiber Count		8-24 Fibers					
Fiber Mode		Single-mode: G.652/G.657					
		Multimode: OM1/OM2/OM3/OM4					
Cable Jacket Material		Low Smoke Zero Halogen (LSZH)					
		PVC					
		Hytrel					
Cable Jacket Ratings		Riser (OFNR)					
		Plenum (OFNP)					
Cable Jacket diameter		600µm; 900µm					
Cable Jacket Color		Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Purple, Pink, Aqua					
Polarity		Customized					
MTP®/MPO	Ferrule	12F/16F/24F/32F/48F					
	Connector Type	MTP®, MPO					
	Connector Brand	US Conec MTP®, Senko MPO, Nissin MPO, Sanwa MPO, FURUKAWA MPO, TASLO MPO					
	Connector Color	Ferrule	SM (APC)	SM (PC)	OM3	OM4	or customized
		Low Loss	Yellow	Yellow	Aqua	Magenta	
		Standard	Green	Blue	Aqua	Magenta	
Boot Color	Green/Black or Customized						
Single-fiber connector		LC, SC, FC etc.					
Operating Temperature		-10 °C to +60 °C					
Storage Temperature		-40 °C to +85 °C					

### Notes:

SM Low Loss option is not available for 32F and 48F MTP/MPO connectors.

## Technical Specification

### MPO / MTP Termination

Optical Properties	Single-mode	Multimode
Insertion Loss (dB)	Low Loss $\leq 0.35$ (Typical: $\leq 0.25$ )	Low Loss $\leq 0.35$ (Typical: $\leq 0.2$ )
	Standard Loss $\leq 0.75$ (Typical: $\leq 0.4$ )	Standard Loss $\leq 0.60$ (Typical: $\leq 0.35$ )
Return Loss (dB)	PC $\geq 50$ ; APC $\geq 60$	PC $\geq 20$
Wavelength (nm)	1310/1550	850/1300
Durability	$\leq 0.3$ (dB) Typical change, 50 matings	

### Single-fiber connector Termination

Optical Properties	Single-mode	Multimode
Insertion Loss (dB)	UPC $\leq 0.2$ ; APC $\leq 0.2$	UPC $\leq 0.2$
Return Loss (dB)	UPC $\geq 50$ ; APC $\geq 60$	UPC $\geq 25$
Wavelength (nm)	1310/1550	850/1300
Durability	$\leq 0.2$ (dB) Typical change, 500 matings	

### Transparent Fanout Kits

