

## MTP®/MPO Shuffle Cable



### Description

Like other MTP®/MPO cable, MTP®/MPO Shuffle cable is also used for connecting modules together as a permanent link, and be used with plug-and-play modules or MTP®/MPO connector panels to achieve multi-level connection of the extension of the pre-terminated trunk cable can also be extended by MTP®/MPO panel with plug-and play module. They are used to interconnect cassettes, panels or ruggedized MTP®/MPO fanouts, spanning MDA, HDA and EDA zones. The difference is that its optical fiber routing is formulated according to the requirements of the optical connection at the construction site, which can realize special optical fiber routing different from the conventional polarity, reducing network installation or reconfiguration time and cost.

### Features

- Low insertion loss and high return loss
- High precision MTP®/MPO connector
- PC/APC end face polish
- Up to 432 fibers-ideal for high density applications
- 100% factory terminated and tested
- Pulling eyes are provided as an option to protect the fiber ends during installation
- Save installation and reconfiguration time
- Customized length available
- ROHS Compliant

### Applications

- Data Centers
- 40G/100G applications
- Storage area network-fiber channel

- Parallel optics
- InfiniBand
- The internal connector application in fiber equipment

## Standards Compliance

- TIA/EIA 568.3-D
- EIA/TIA 604-5
- IEC 61754-7
- IEC 61753-1
- GR 1435-CORE

## General Specification

Constructions	Descriptions						
Fiber Count	8-432 Fibers						
Fiber Mode	Single-mode: G.652/G.657						
	Multimode: OM1 OM2 OM3 OM4 OM5						
Cable Jacket Material	Low Smoke Zero Halogen (LSZH)						
	PVC						
Cable Jacket Ratings	Riser (OFNR)						
	Plenum (OFNP)						
Cable Jacket Color	G.652/G.657: Yellow						
	OM1/OM2: Orange						
	OM3: Aqua						
	OM4: Aqua/Magenta						
	OM5: Lime						
	Customized						
Polarity	Customized						
Connector Ferrule	12F/16F/24F/32F/48F						
Connector Brand	US Conec MTP®, Senko MPO, Nissin MPO, Sanwa MPO, FURUKAWA MPO						
Connector Color	Ferrule	SM		MM			or Customized
		PC	APC	PC (OM3)	PC (OM4)	APC	
	Low Loss	Yellow	Yellow	Aqua	Magenta	Green	
Pulling Eye	Customized						
Operating Temperature	-10 °C to +60 °C						
Storage Temperature	-40 °C to +85 °C						

## Technical Specification

Optical Properties	Single-mode	Multimode
Insertion Loss (dB)	Low Loss $\leq 0.35$ (Typical: $\leq 0.15$ )	Low Loss $\leq 0.35$ (Typical: $\leq 0.1$ )
Return Loss (dB)	PC $\geq 50$ ; APC $\geq 60$	PC $\geq 20$ ; APC $\geq 40$
Wavelength (nm)	1310/1550	850/1300
Durability	$\leq 0.3$ (dB) Typical change, 50 matings	

**Notes:**

RL Test method: IEC 61300-3-6 insertion B.