

## **MTP® Trunks and Harnesses**

MTP® cable assemblies are configurable in trunks, harnesses, jumpers, and hybrid trunk solutions. All products feature the MTP brand connector and a micro 250 reduced diameter cable. Connectors are available in 4 to 24 fiber ferrule single-mode, and 4 to 72 fiber ferrule multimode.

All cable assemblies are manufactured using component materials that meet the EU RoHS and REACH directive standards. Cables are available in TIA standard or special order colors. Jacket ratings are available in Plenum (OFNP), Riser (OFNR) and LSZH.



### **TRUNK CABLE FEATURES**

- Highly customizable to user preference
- Custom color jackets and furcation legs
- OMNIA® trunks feature direct mount breakout kit
- Push-pull, color coded non-keyed, and keyed connector options
- Any polarity for backward compatible with all manufacturer products and existing networks

## MTP® Tunks and Harnesses

### SINGLE-MODE

The standard single-mode offering is a 10mm OS2 bend insensitive fiber. Bend performances of 7.5mm and 5.0mm are also available.

#### COMPLIANCES

ICEA S-83-596  
TIA492-CAAB G.652.D

UL1666  
TIA-568-C.3

#### NUMERICAL APERTURE

.14 (*characterized*)

#### AVAILABLE FIBER TYPES

G.657.A1            10mm bend (*standard offering for OMNIA and IllumiCore*)  
 G.657.A2/B2        7.5mm bend  
 G.657.B3            5.0mm bend

### MULTIMODE 62.5µm OM1

#### COMPLIANCES

ICEA S-83-596  
ISO/IEC 11801 Type OM1

TIA492-AAAA-A  
IEC 60793-10

TIA-568-C.3  
UL1666

#### NUMERICAL APERTURE

.275 ± 0.015

#### AVAILABLE FIBER TYPES

62.5µm OM1  
(*standard offering for OMNIA and IllumiCore*)

### MULTIMODE 50µm OM2, OM3, OM4, and OM5

Each of the 50-micron options are a bend-insensitive fiber. Cable jackets are colored for easy bandwidth performance identification: OM2 orange, OM3/4 aqua, and OM5 lime. Custom colors are always available.

#### COMPLIANCES

ICEA S-83-596  
TIA492-AAAB-A (OM2)  
UL1666

TIA492-AAC-B (OM3)  
TIA492-AAAD (OM4)

TIA-568-C.3  
TIA492-AAAE (OM5)

#### AVAILABLE FIBER TYPES AND RATINGS

OM2                    OM4  
OM3                    OM5

#### NUMERICAL APERTURE

.20 ± 0.015

## Connector Performance Specifications

### OMNIA® and IllumiCore®

	Typical IL Performance (dB)	Max IL Performance (dB)	Typical Reflectance (dB)
Single-mode LC	0.13	0.20	-57
Single-mode ST	0.14	0.20	-56
Single-mode FC	0.16	0.20	-57
Single-mode SC	0.25	0.20	-57
Single-mode MTRJ Pinned	0.25	0.50	-51
Single-mode MTRJ Non-Pinned	0.17	0.50	-51
Multimode LC	0.17	0.20	
Multimode ST	0.10	0.20	
Multimode SC	0.10	0.20	
Multimode SC	0.12	0.20	
Multimode MTRJ Pinned	0.20	0.50	
Multimode MTRJ Non-pinned	0.20	0.50	
Multimode MTP Low Loss (standard)	0.10 (single fiber)	0.35	
Single-mode MTP Standard Loss	0.25 (single fiber)	0.75	> 60
Single-mode MTP Low Loss	.10 (single fiber)	0.35	> 60

## CONNECTOR COMPLIANCES

LC Connectors	TIA/EIA-604-10
SC Connectors	TIA/EIA-604-3
ST Connectors	TIA/EIA-604-2
FC Connectors	TIA/EIA-604-4
MTRJ Connectors	TIA/EIA-604-12
MPO (including MTP)	TIA/EIA-604-5