



## Connector Performance Specifications

OMNIA® and IllumiCore®

|                                    | Typical IL<br>Performance (dB) | Max IL<br>Performance (dB) | Typical<br>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                     | 0.16                           | 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 FC                       | 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                        |

### 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

## OMNIA® Solution Trunks, ORDERING INFORMATION

**(X\*)(AA)(BB)(CCC)(D)(E)(F)M(GGG)(H)**

(X\*) Option for Pull Eye, Use "P" for one end, "B" for both ends, leave blank if not needed

### (AA)&(BB) Select Connectors

|    |                             |
|----|-----------------------------|
| 45 | MTP® 12F non-pinned         |
| 46 | MTP 12F pinned              |
| 48 | MTP 8F non-pinned           |
| 49 | MTP 8F pinned               |
| 50 | MTP 16F non-pinned          |
| 51 | MTP 16F pinned              |
| E4 | MTP/APC Low Loss non-pinned |
| E6 | MTP/APC Low Loss pinned     |
| H4 | MTP 24F non-pinned          |
| M4 | MTP 24F pinned              |
| H8 | MTP 48F non-pinned          |
| M8 | MTP 48F pinned              |
| H2 | MTP 72F non-pinned          |
| M2 | MTP 72F pinned              |
| 00 | No Connector                |

### (E) Select Polarity

A, B, C

### (F) Select Jacket Color

|   |            |
|---|------------|
| B | Blue       |
| N | Orange     |
| G | Green      |
| W | Brown      |
| T | Slate      |
| H | White      |
| R | Red        |
| K | Black      |
| Y | Yellow     |
| V | Violet     |
| S | Rose       |
| A | Aqua       |
| L | Lime Green |

### (HHH) Select Length (3 digits)

001 - 999

### (I) Select Unit of Measure

|   |       |
|---|-------|
| F | Feet  |
| M | Meter |

### (CCC) Select Fiber Count

004 to 288

### (G) Select Cable Type

|   |                          |
|---|--------------------------|
| 2 | Indoor, OFNP             |
| 9 | Indoor, OFNR             |
| Z | Indoor, LSZH             |
| N | Indoor/Outdoor, OFNR     |
| T | Indoor/Outdoor, OFNP     |
| A | Interlocking Armor, OFCP |
| R | Interlocking Armor, OFCR |

### (D) Select Fiber Type

|   |                          |
|---|--------------------------|
| Y | OS2 10mm bend (standard) |
| L | OS2 7.5mm bend           |
| Z | OS2 5.0mm bend           |
| F | OM1                      |
| E | OM2                      |
| G | OM3                      |
| M | OM4                      |
| W | OM5 (WBMMF)*             |

\*OM5 standard jacket color is lime green. Other colors are available upon request.

The standard multimode 12F MTP connector offering is low loss

## 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 UL1666
- TIA492-CAAB
- 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
- G.652.D

## MULTIMODE 62.5µm OM1

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 UL1666
- TIA492-AAAA-A
- TIA-568-C.3
- ISO/IEC 11801 Type OM1
- IEC 60793-10 UL1666

### NUMERICAL APERTURE

- $.275 \pm 0.015$

### 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 UL1666
- TIA-568-C.3
- TIA492-AAC-B (OM3)
- TIA492-AAAB-A (OM2)
- TIA492-AAAD (OM4)
- TIA492-AAAE (OM5)

### NUMERICAL APERTURE

- $.20 \pm 0.015$

### AVAILABLE FIBER TYPES

- OM2
- OM3
- OM4
- OM5