



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	0.16	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

(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)*

(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

*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 ± 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 ± 0.015

AVAILABLE FIBER TYPES

- OM2
- OM3
- OM4
- OM5