



DMSI offers the broadest selection of pre-terminated trunk cables in the industry, featured under two product brands: IllumiCore and OMNIA. IllumiCore cables exclusively feature Corning® optical fiber, are made in the USA and are UL listed. OMNIA trunks feature all of the high-quality components and performance of IllumiCore, with a unique cable breakout kit for direct integration into OMNIA enclosures, eliminating the need for cable ties or a tool.

Low loss connector performance and bend insensitive fiber (50µm and Single-mode) are a standard offering for both families.

### TRUNK CABLE FEATURES

- Highly customizable to user preference
- Custom color jackets, connectors, and furcation legs
- Reduced installation time using OMNIA trunks with direct mount breakout kit
- Low loss connector performance is standard with ultra-low loss options available
- UPC and APC polishes, angled and flex boots, push-pull connectors
- 900µm up to 3.0mm furcation legs with staggered or straight breakouts

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.

Trunk cable construction types include tight buffer distribution, micro-250, and ribbon in both armored and non-armored constructions. Jacket ratings are available in Plenum (OFNP), Riser (OFNR) and LSZH. Connector types include standard single and two fiber, keyed LC and MTRJ, and a complete offering of secure solutions color coded, non-keyed.

### SINGLE AND DUAL FIBER 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

## Connector Performance Specifications

	Typical IL Performance	Max IL Performance	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 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	

### 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

### Multi-Fiber Trunk Cables & Pigtails, ORDERING INFORMATION

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

**(X\*) Use P for eye, "B" for both ends**

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

21	FC
28	FC/APC
30	LC simplex
31	LC duplex
32	LC 2.0mm simplex
38	LC/APC duplex
39	LC/APC simplex
3U	LC Reverse Polarity Uniboot*
P1	LC Push-Pull Uniboot*
60	SC simplex
61	SC duplex
62	SC 2.0mm simplex
65	SC/APC simplex
68	SC/APC duplex
67	ST
44	MTRJ non-pinned
47	MTRJ pinned

#### (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 and Rating

2	Indoor, OFNP
9	Indoor, OFNR
Z	Indoor, LSZH
N	Indoor/Outdoor, OFNR
T	Indoor/Outdoor, OFNP
A	Indoor, OFCP Armored
R	Indoor, OFCR Armored
U	Indoor/Outdoor OFCR Armored
D	Indoor/Outdoor OFCP Armored
H	Indoor/Outdoor LSZH Non-Armored
S	Indoor/Outdoor LSZH Armored

#### (E) Select Cable Size

T	Tight Buffer Distribution
M	Micro 250 Reduced Diameter
R	Jacketed Ribbon
B	Bare Ribbon (12F only)
L	Dry Loose Tube

#### (H) Select Unit of Measure

F	Feet
M	Meter
N	Inches

#### (CCC) Select Fiber Count

004 to 288

#### (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

\*LC Push-Pull and Reverse Polarity Uniboosts are manufactured with 2.0mm legs.

\*\*OM5 standard jacket color is lime green. Other colors are available upon request. All trunks 100 feet or longer are shipped on a reel with a pull-eye.

Standard breakout legs are 900µm color coded for simplex connectors, and 2.0mm for duplex; breakout lengths are:

- 24 inches for fiber counts 36 fiber and less
- 34 inches for fiber counts 48 fiber and higher