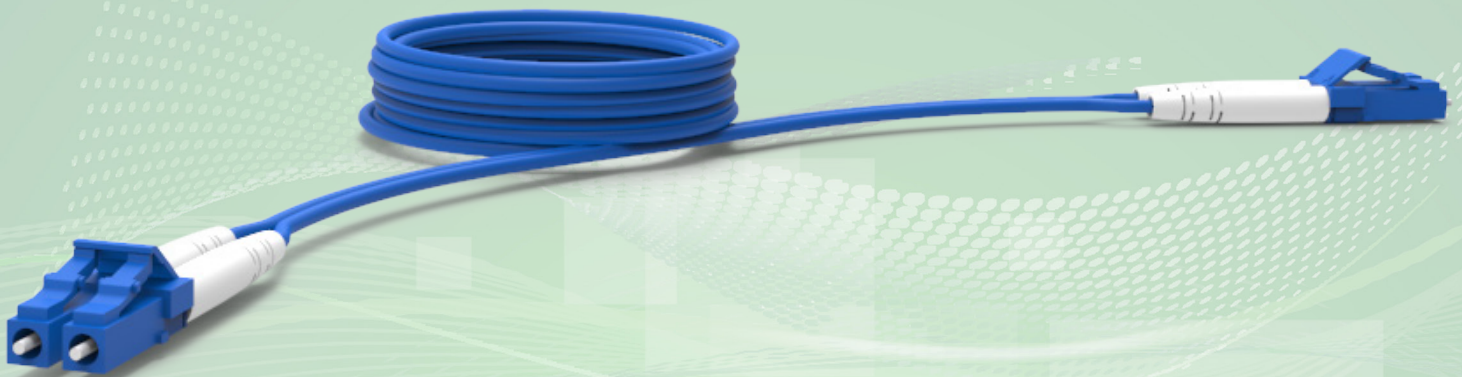


## Simplex and Duplex Patch Cords



DMSI offers the broadest selection of cable assemblies 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 features all of the high quality components and performance of IllumiCore, with a significant upgrade in installation friendly features for hardware and trunk cabling, as well as larger selection of cable types. Low loss connector performance and bend insensitive fiber (50µm and Single-mode) are a standard offering for both families. For more details on OMNIA features, please see the hardware section.

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.

Cable construction types include tight buffer distribution, micro-250, ribbon, breakout, and zipcord. Any cable construction type can be ordered with interlocking armor. Jacket ratings are available in Plenum (OFNP), Riser (OFNR) and LSZH. Connector types include standard single and two fiber connectors, keyed LC and MTRJ, and a complete offering of secure solutions color coded, non-keyed.

- Standard patch cords are dual ended with industry standard SC, LC, ST, FC or MTRJ connectors.
- Keyed LC & MTRJ patch cords are terminated with at least one end using a keyed connector.
- Secure Solutions patch cords feature color-coded non-keyed connectors (LC, SC, and MTRJ) on both ends, with jacket color to match.

## 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 G.652.D	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	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	TIA492-AAC-B (OM3)	TIA-568-C.3
TIA492-AAAB-A (OM2)	TIA492-AAAD (OM4)	TIA492-AAAE (OM5)
UL1666		

### AVAILABLE FIBER TYPES AND RATINGS

OM2	OM4
OM3	OM5

### NUMERICAL APERTURE

.20 ± 0.015

## 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 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

## Standard Patch Cord ORDERING INFORMATION

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

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

21	FC
28	FC/APC
30	LC simplex
31	LC duplex
32	LC .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
65	SC/APC simplex
68	SC/APC duplex
67	ST
44	MTRJ non-pinned
47	MTRJ pinned

### (CCC) Select Fiber Count

001 or 002

### (D) Select Fiber Type

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

### (E) Select Cable Size

1	1.6mm
2	2.0mm
3	3.0mm
M	2.0mm Micro 250
9	900µm buffered ( <i>simplex only</i> )
R	2F Round, 3.0mm

### (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

### (G) Select Cable Type and Rating

2	Indoor, OFNP
9	Indoor, OFNR
Z	Indoor, LSZH
N	Indoor/Outdoor, OFNR
T	Indoor/Outdoor, OFNP
H	Indoor/Outdoor LSZH

### (H) Select Unit of Measure

F	Feet
M	Meter
N	Inches

\*LC Push-Pull and Reverse Polarity Uniboosts are manufacturing using a 2.0mm micro 250 cable

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