

CABLE ASSEMBLIES

Simplex & Duplex Jumpers

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Standard



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.

TRUNK CABLE FEATURES

- 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 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 (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 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 Jumpers

COMPLIANCES

- ICEA S-83-596 UL1666
- TIA492-CAAB
- TIA-568-C.3

AVAILABLE FIBER TYPES

- Corning® SMF-28® Ultra optical fiber compliant to G.657.A1, 10mm BR
- Corning® ClearCurve® LBL optical fiber compliant to G.657.A2/B2, 7.5mm BR
- Corning® ClearCurve® ZBL optical fiber compliant to G.657.B3, 5mm BR

NUMERICAL APERTURE

- .14 (characterized)

Multimode 62.5µm OM1 Jumpers

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 Illumi-Core)

Multimode 50µm Jumpers

COMPLIANCES

- ICEA S-83-596 UL1666
- TIA492-AAAA-A
- TIA-568-C.3
- ISO/IEC 11801 Type OM1
- IEC 60793-10 UL1666

NUMERICAL APERTURE

- $.20 \pm 0.015$

AVAILABLE FIBER TYPES

- Corning® ClearCurve® OM3 optical fiber compliant to TIA492-AAAC-B, 7.5mm BR, A1a.2 to IEC60793-2-10
- Corning® ClearCurve® OM4 optical fiber compliant to TIA492-AAAD, 7.5mm BR, A1a.3 to IEC60793-2-10

Simplex & Duplex Standard Patch Cord, ORDERING INFORMATION

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

(AA) & (BB)	Select Connectors
00	Pigtail
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
(CCC)	Select Fiber Count
001 or 002	
(D)	Select FiberType
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)**

(E)	Select Cable Construction
1	1.6mm
2	2.0mm
3	3.0mm
M	2.0mm Micro 250
9	900µm Buffered (simplex only)
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
2	Indoor, OFNP (Plenum)
9	Indoor, OFNR (Riser)
Z	Indoor, LSZH
N	Indoor/Outdoor, OFNR (Riser)
T	Indoor/Outdoor, OFNP (Plenum)
H	Indoor/Outdoor LSZH Non-Armored
(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.