



IllumiCore®+ Solutions are premium performance low loss products manufactured using select components. IllumiCore®+ connectivity solutions consistently achieve less than a .10dB insertion loss per connector. Just like the standard offering, cable assemblies are available in a wide variety of configurations, including cable construction type, color, and flame rating.

STANDARD CONNECTOR COMPLIANCES

- LC Connectors, TIA/EIA-604-10
- SC Connectors, TIA/EIA-604-3

IllumiCore®+ Solutions are available in 12 TIA standard colors or special order colors. IllumiCore®+ cables exclusively feature Corning® optical fiber are made in the USA and are UL listed. Premium low loss connector performance featuring IEC grade A ferrules are featured. Also standard are bend insensitive optical fiber and enhanced optical transmission performance exceeding the industry standards.

Jumper cables construction is available in zipcord, tight buffer, micro 250, and ribbon. The option of cable ratings included OFNP (plenum), OFNR (riser), and LSZH (low smoke zero halogen).

Connector Performance Specifications

	Typical IL Performance	Max IL Performance	Typical Reflectance (dB)
Single-mode LC	0.07	0.20	-57
Single-mode SC	0.07	0.20	-57
Multimode LC	0.07	0.20	
Multimode SC	0.07	0.20	

IllumiCore® Single-mode Jumpers

The standard single-mode offering is a 10mm bend enhanced fiber as single-mode cable assemblies. Corning's SMF-28® Ultra has the bend performance of ClearCurve® XB with the long haul transmission performance of SMF-28e+®. Additional bend performance fibers are also available.

COMPLIANCES

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

NUMERICAL APERTURE

- .14 (characterized)

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

IllumiCore® 50 Micron Jumpers

DMSI offers three grades of 50-micron fiber: OM2, OM3, and OM4. All which surpass the industry standards for transmission performance. Each fiber is guaranteed to outperform the transmission performance requirement of OM2/3/4. By using IllumiCore® enhanced products featuring Corning® ClearCurve® Multimode fiber, additional system reach can be achieved beyond the minimum industry standard. The entire Corning® ClearCurve® 50 micron family offers 7.5mm bend-insensitive fibers.

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 ± 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

IllumiCore®+ Solutions, ORDERING INFORMATION

(X*)(AA)(BB)(CCC)(D)(E)(F)(G)(HHH)(I)

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

(AA)&(BB) Select Connectors

33	LC/UPC Premium Low Loss Simplex
34	LC/UPC Premium Low Loss Duplex
37	LC/APC Premium Low Loss Simplex
39	LC/APC Premium Low Loss Duplex
63	SC/UPC Premium Low Loss Simplex
64	SC/UPC Premium Low Loss Duplex
66	SC/APC Premium Low Loss Simplex
69	SC/APC Premium Low Loss Duplex

(CCC) Select Fiber Count

001 or 002

(D) Select Fiber Type

Y	OS2 10mm bend (standard)
L	OS2 7.5mm bend
Z	OS2 5.0mm bend
G	OM3 7.5mm bend
M	OM4 7.5mm bend

(E) Select Cable Type

1	1.6mm
2	2.0mm
3	3.0mm
T	Tight Buffer
M	Micro 250
B	Ribbon
R	Round

(F) Select Jacket Color

4	Standard OS2: Yellow OM1/OM2: Orange OM3/OM4: Aqua
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) Cable Jacket Material

2	Plenum
9	Riser
Z	LSZH

(HHH) Assembly Length

001-999

(I) Select Unit of Measure

F	Feet
M	Meter
N	Inches