



G2 Multimode OM5 WideBand Module, 12 LC Ports with internal shutters

- LazrSPEED® WideBand extends the capability of OM4 across enough spectrum to support at least four low-cost wavelengths

Product Classification

Portfolio	CommScope®
Product Type	Fiber module
Regional Availability	Asia Australia/New Zealand EMEA Latin America North America

Construction Materials

Fiber Type	OM5, LazrSPEED® wideband
Total Fibers, quantity	12

Dimensions

Depth	116.84 mm 4.60 in
Height	27.94 mm 1.10 in
Width	91.44 mm 3.60 in

Environmental Specifications

Qualification Standards	TIA/EIA-568-C.3
Safety Standard	cUL UL

General Specifications

Interface, front	LC
Total Ports, quantity, front	12
Interface Feature, front	Standard
Color, front	Lime green
Interface, rear	MPO Pinned
Adapters, quantity, rear	1
Interface Feature, rear	Standard
Color, rear	Lime green
Package Quantity	1

Optical Performance

Insertion Loss, maximum	0.47 dB
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Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU
ISO 9001:2015

Classification

Compliant
Designed, manufactured and/or distributed under this quality management system



Included Products

CS-5G-MP (Product Component—not orderable) — LazrSPEED® OM5 WideBand Multimode Fiber

LazrSPEED®

LazrSPEED® OM5 WideBand Multimode Fiber

Product Classification

Portfolio	CommScope®
Product Type	Optical fiber
Regional Availability	Asia Australia/New Zealand EMEA Latin America North America

Optical Specifications, Wavelength Specific

Standards Compliance	ANSI/TIA-568.3-D wideband multimode fiber cable IEC 60793-2-10, edition 6, model A1a.4 ISO 11801-1 cabled optical fiber performance category OM5 TIA-492AAAE (OM5)
Attenuation, maximum	1.00 dB/km @ 1,300 nm 2.20 dB/km @ 953 nm 3.00 dB/km @ 850 nm
Index of Refraction	1.478 @ 1,300 nm 1.483 @ 850 nm
1 Gbps Ethernet Distance	1,110 m @ 850 nm 600 m @ 1,300 nm
10 Gbps Ethernet Distance	550 m @ 850 nm
Bandwidth, Laser, minimum	2,600 MHz-km @ 953 nm 4,700 MHz-km @ 850 nm 500 MHz-km @ 1,300 nm
Bandwidth, OFL, minimum	1,950 MHz-km @ 953 nm 3,500 MHz-km @ 850 nm 500 MHz-km @ 1,300 nm

Physical Specifications

Cladding Diameter	125.0 µm
Cladding Diameter Tolerance	±0.8 µm
Cladding Non-Circularity, maximum	0.7 %
Coating Diameter (Colored)	254 µm
Coating Diameter (Uncolored)	242 µm
Coating Diameter Tolerance (Colored)	±7 µm
Coating Diameter Tolerance (Uncolored)	±5 µm
Coating/Cladding Concentricity Error, maximum	12 µm
Core Diameter	50.0 µm
Core Diameter Tolerance	±2.5 µm
Core/Clad Offset, maximum	1.0 µm

Optical Specifications, General

Numerical Aperture	0.200
Numerical Aperture Tolerance	±0.010
Point Defects, maximum	0.15 dB
Zero Dispersion Slope, maximum (OM5)	$-412/(840(1-(\lambda/840)^4))$ ps/[km-nm-nm]

Zero Dispersion Wavelength, maximum	1328 nm
Zero Dispersion Wavelength, minimum	1297 nm

Mechanical Specifications

Coating Strip Force, maximum	4.4 N 1.0 lbf
Coating Strip Force, minimum	1.0 N 0.2 lbf
Dynamic Fatigue Parameter, minimum	18
Macrobanding, 15 mm mandrel, 2 turns	0.10 dB @ 850 nm 0.30 dB @ 1,300 nm
Macrobanding, 7.5 mm mandrel, 2 turns	0.20 dB @ 850 nm 0.50 dB @ 1,300 nm
Proof Test	689.48 N/mm ² 100000.00 psi

Environmental Specifications

Heat Aging, maximum	0.10 dB/km @ 85 °C
Temperature Dependence, maximum	0.10 dB/km
Temperature Humidity Cycling, maximum	0.10 dB/km
Water Immersion, maximum	0.10 dB/km @ 23 °C

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



* Footnotes

Temperature Dependence, maximum	Temperature dependence is conducted at -60 °C to +85 °C (-76 °F to +185 °F)
Temperature Humidity Cycling, maximum	Temperature humidity cycling is conducted at -10 °C to +85 °C (+14 °F to +185 °F) up to 95% relative humidity