INFINIUM L-SERIES
FIBER PATCH CORD ASSEMBLY

INFINIUM QUANTUM | INFINIUM ULTRA | INFINIUM CORE

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Pre-Configured Infinium Fiber Patch Cords are built to exceed industry standards for quality, performance, insertion and return loss. Available in three performance tiers Infinium Quantum, Infinium Ultra, and Infinium Core. Each tier is available in Single-mode and Multimode. The most common configurations are setup for easy selection and purchase

	Single-Mode	Multimode
	General Specifications	
Fiber Category	9µm SM (OS2)	50µm MM (OM3/OM4/OM5)
Cable Assembly Type	Infinium Patch Cords: Prefix – Quantum (L4) / Ultra (L3) / Core (L1)	
Cable Type	Duplex	
	Connector Design (Connector – A, Connector – B)	
Connector Types	MDC, LC, SC	
Connector Color	Blue	Aqua (OM3/4) / Lime Green (OM5)
Keyed Connector	Available	
Ferrule Material	Ceramic	
	Specifications (Connector – A, Connector – B)	
	Infinium Core	
Insertion Loss Max	0.30dB*	0.50dB*
Return Loss	55dB*	26dB*
	Infinium Ultra	
Insertion Loss Max	0.25dB*	0.15dB*
Return Loss	55dB*	26dB*
	Infinium Quantum	
Insertion Loss Max	0.14 dB*	0.10dB*
Return Loss	55dB*	40dB*
	Cable Design	
Fiber Count	2	
Outer Jacket Color	Yellow	Aqua
Polarity	A-B (A-A Available upon request)	
	Fiber Specifications	
Wave Lengths	1310 nm / 1550 nm / 1625 nm	850 nm / 1300 nm
Maximum Attenuation	0.5dB/km / 0.5dB/km	3.0dB/km / 1.5dB/km
1 Gigabit Ethernet	>25000 m / >40000 m	>550 m / >300 m
10 Gigabit Ethernet	10000-25000 m / 40000 m	400-550 m / 300 m
Induced Attenuation @ Radius	0.75dB 1550 nm @ 10 mm (1 turn) 1.5dB 1625 nm @ 10 mm (1 turn)	0.2dB 850 nm @ 7.5 mm (2 turns) 0.5dB 1300 nm @ 7.5 mm (2 turns)

*Per mated pair when mated with like performance tier cassette or trunk

	Temperature Ranges
Storage	-40° to 70°C (-40° to 158°F
Installation	0° to 60°C (32° to 140°F)
Operating	0° to 70°C (32° to 158°F)

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INFINIUM FIBER PATCH CORD ASSEMBLY CONFIGURATOR

Sample Concatenated Part Number	Performance Level	Conn. A	Conn. B	Polarity	Cable Diameter	Fiber Type	Jacket Color	Jacket Type	Packaging	Length	Unit of Measure
L1-0101B2OY21010F	L1	01	01	B	2	O	Y	2	1	010	F

Performance Level

L1	Core
L3	Ultra
L4	Quantum

Polarity

B	A-B (Clipped) Standard
A	A-A (Clipped)

Jacket Color

A	Aqua
Y	Yellow

Packaging

0	No Test Result (Core)
1	Test Result (Ultra/Quantum)

Conn. (Connectors)

01	LC Duplex
02	SC
35	SM Quantum LC Duplex
80	LC Uniboot
2M	SM Quantum LC Uniboot
2J	MDC

Cable Diameter

2	2.0mm
3	3.0mm

Fiber Type

E	OM4
H	OM5
J	OS2 Standard
O	OS2 Quantum

Jacket Type

2	Riser Duplex Zip
D	Plenum Duplex Zip
B	Plenum Duplex DFX (Uniboot)
L	LSZH Duplex DFX (Uniboot)

Length

000	0-999

Unit of Measure

F	Feet
M	Meters

Instructions

Use the applicable feature tables, select the appropriate designation code and apply to the coordinating cell in the configurator.

Please Note: With hundreds of configuration options, this table has been condensed to the most common choices to simplify the patch cable assembly configuration process. If you require other configuration options or assistance with designing the appropriate patch cable assembly for your application, please contact Legrand support.

Phone number 1.800.934.5432 Email customerservice.DAT@legrand.us

Sample Pre-Configured Infinium Patch Cable Assemblies - (3ft, LC to LC Duplex, Plenum, OS2 or OM4)

Part NO.	DESCRIPTION	FIBER TYPE	POLARITY	FORM FACTOR	JACKET TYPE	LENGTH	UOM	INSERTION LOSS (MAX)
L4-3535B2OYD1003F	Infinium Quantum, LC to LC	OS2	A-B	Duplex	Plenum	3	Feet	0.14 dB
L4-0101B2EAD1003F	Infinium Quantum, LC to LC	OM4	A-B	Duplex	Plenum	3	Feet	0.10 dB
L3-0101B2JYD1003F	Infinium Ultra, LC to LC	OS2	A-B	Duplex	Plenum	3	Feet	0.25 dB
L3-0101B2EAD1003F	Infinium Ultra, LC to LC	OM4	A-B	Duplex	Plenum	3	Feet	0.15 dB
L1-0101B2JYD0003F	Infinium Core, LC to LC	OS2	A-B	Duplex	Plenum	3	Feet	0.30 dB
L1-0101B2EAD0003F	Infinium Core, LC to LC	OM4	A-B	Duplex	Plenum	3	Feet	0.50 dB

Other Pre-Configured Options are available or fully customize to fit your individual need.