

# High Density FO Cassette

24F – 2MPO to 6LC Quad



**Genius** HD cassette is Designed for optimized cable management design with an extra-long opening ensures easy routing, organization, and maintenance of fiber cables. Its ultra-lightweight, eco-friendly PC/ABS flame-retardant construction reduces cabinet load while delivering strong mechanical performance across –25°C to +70°C. Clear channel IDs on each adapter port allow quick identification and accurate cabling, while the parallel interface design enables convenient cleaning of connector end faces for reliable optical performance.

## Key Feature

- Extended opening for easy cable routing.
- Lightweight and strong flame-retardant PC/ABS body.
- Operates reliably from –25°C to +70°C.
- Clear port ID for quick identification.
- Parallel interface for easy connector cleaning
- RoHS Compliant
- Genius Network Brand performance warranty for 25 Years

## Product Specification

Cassette Material	ABS Plastic
Cassette Dimension	295 x 196.2 x 12.5mm
Max Capacity	LC 24F
Fiber Type	SM OS2 / MM OM4, BI
Front End Adapter	LC Quad Adapter – 6Nos
Back End Adapter	MPO 12F Adapter – 2Nos
Adapter Color	Single Mode - Blue Multi Mode OM4- Heather Violet Multi Mode OM5- Lime Green
MPO Connector Gender	Male
Standard Polarity	Type B

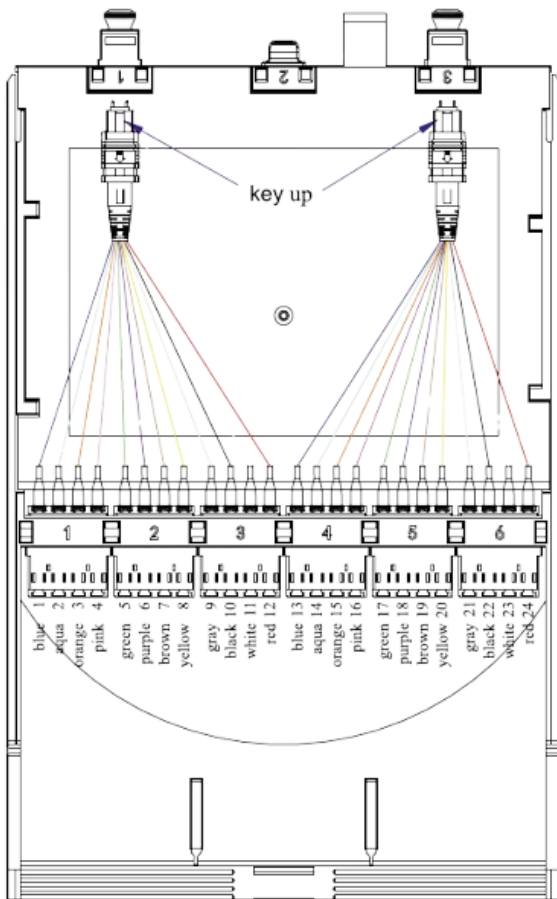
## Optical Specification

Testing Wavelength	1310 nm for Single Mode 850 nm for Multi Mode
Insertion Loss for MPO	≤0.30 dB
Insertion Loss for LC	≤0.30 dB
Return Loss for MPO	≥ 50 dB for Single Mode ≥ 20 dB for Multi Mode
Return Loss for LC	≥ 50 dB for Single Mode ≥ 20 dB for Multi Mode

## Environmental Specification

Operation Temperature	-25°C to +70°C
Installation Temperature	-25°C to +70°C
Storage Temperature	-25°C to +70°C

## Wiring Diagram (Polarity – Type B)



MPO Adapter No	MT Hole	Cable Color Code	LC Quad Adapter No	LC adapter Hole No	Cable Color Code
1	1	Blue	1	1	Blue
	2	Orange		2	Aqua
	3	Green		3	Orange
	4	Brown		4	Pink
	5	Slate	2	5	Green
	6	White		6	Voilet
	7	Red		7	Brown
	8	Black		8	Yellow
	9	Yellow	3	9	Slate
	10	Voilet		10	Black
	11	Pink		11	White
	12	Aqua		12	Red
3	1	Blue	4	13	Blue
	2	Orange		14	Aqua
	3	Green		15	Orange
	4	Brown		16	Pink
	5	Slate	5	17	Green
	6	White		18	Voilet
	7	Red		19	Brown
	8	Black		20	Yellow
	9	Yellow	6	21	Slate
	10	Voilet		22	Black
	11	Pink		23	White
	12	Aqua		24	Red

## Ordering Information

Part Number	Product Description
GDM4CCMMBTRFCS12	Genius Fiber UHD Cassettes, 24 LC (6 Quad) *2 MPO, MM, OM4, Male, Method B
GDM5CCMMBTRFCS12	Genius Fiber UHD Cassettes, 24 LC (6 Quad) *2 MPO, MM, OM5, Male, Method B
GDS2CCMMBTRFCS12	Genius Fiber UHD Cassettes, 24 LC (6 Quad) *2 MPO, SM, OS2, Male, Method B



**Note** – Any specification in the data sheet including Design, Performance, Measurement and standards may change without prior notice by **Net Gen Innovations Private Limited** as part of continuous Improvement – Always download data sheet from [genius-net.com](http://genius-net.com) for latest version