

# Premium Optical Fiber and Cable Solutions for AI/HPC Networks



Supports the rapid deployment of high-performance computing (HPC) and AI solutions with high-density and low-power 400 Gb/s, 800 Gb/s, and 1.6 Tb/s MM links.

Multimode Rollable Ribbon cables are shipping now in a variety of fiber counts. Compact and lightweight R-Pack™ Backbone Fiber Optic Cables are plenum (12-72 fiber) or dual rated (Riser/CPR 12-144 fiber) for use in demanding building applications.

Higher fiber counts are available in AccuRiser™ I/O Dual-Rated Fiber Optic Cables (Riser and LSZH/CPR 144-864 fibers). AccuRiser cables simplify transitions from outdoor to indoor use and feature a dual flame rating for universal use throughout much of the world.

## Better Fiber for Better Connections

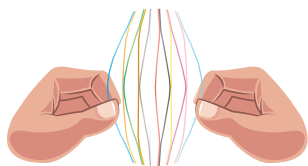
As multimode links progress to higher Ethernet and InfiniBand speeds and BiDi solutions are adopted, it is increasingly more important to ensure that high-quality multimode fibers are specified.

LaserWave® Optical Fibers have industry-leading performance to deliver reliable ultra-low-loss multimode links:

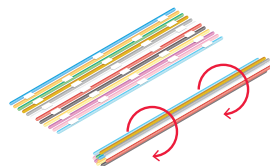
- **Most stringent DMD bandwidth specifications**, exceeding both EMB and mask width specifications
- **Lowest attenuation**
- **Tightest glass geometry and NA tolerances** for ultra-low-loss connections
- **Reduced microbend sensitivity** to enable challenging cable constructions

## First To Market with Multimode Rollable Ribbon Fiber Optic Cable

LaserWave Optical Fibers are color-coded and partially bonded into a flexible ribbon that is ideal for MPO termination and easily breaks-out into individual fibers or pairs. OFS Rollable Ribbon Fiber Optic Cables are much smaller and lighter in weight when compared to standard flat-ribbon cables or parallel sets of AOCs within the data center.



**EASY TO SPLIT**



**FLEXIBLE HANDLING**

## New LaserWave Dual-Band OM4+ Optical Fiber

As multimode lane rates increase, and BiDi solutions are adopted:

- Maximum link distance drops (especially OM3)
- OM4, OM4+, OM5 demand increases



LaserWave Dual-Band OM4+ sits between OM4 and OM5 and is a cost-effective premium fiber for BiDi applications where two wavelengths are used. It provides OM5-equivalent performance between 850 nm and 910 nm to support BiDi applications, without supporting the full SWDM4 range up to 953 nm.

Rate per pair (Gb/s)	# λ's	Optical Modulation	OM3 Reach (m)	OM4 Reach (m)	OM4+ Reach (m)	OM5 Reach (m)
25	1	25G NRZ	70	100	100	100
50	1	50G PAM4	70	100	100	100
100	4 (SWDM)	25G NRZ	75	100	100	150
100	2 (BiDi)	50G PAM4	70	100	150	150
100	1	100G PAM4	60	100	100	100
200	2 (BiDi)	100G PAM4	45	70	100	100

LaserWave Optical Fibers and Rollable Ribbon Fiber Optic Cables are manufactured in the USA to meet the highest quality standards while continually striving to reduce our environmental impact.

To learn more, contact

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