



Custom Cables, Bundles and Assemblies

We Produce Optical Fiber Solutions
Engineered to Meet Your Needs

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ArmD[®] Fiber Cables, Bundles and Assemblies

Single-fiber cables

- Broad temperature tolerance
- Excellent resistance to laser damage
- Special jackets available
- Consistent core/cladding ratio throughout the fiber
- Fully customizable
- Available fibers - All ArmD[®] fibers
- Anti-reflective (AR) coating

Connectors:
SMA | FC / PC | ST |
D80 | QBH | E2000
and others upon
customer request,
including customized
ferrules



ArmD[®] Fiber Bundles Specialty Multi-Fiber Assemblies

- High Transmission
- Large active diameter
- Long service life
- Exceptional high-temperature resistance above +600 °C
- Elimination of inter-fiber spaces
- Availability of a wide range of ready-to-use assemblies
- Even distribution in multi-branch bundles
- Custom fiber mapping



Bundle Options:

- Available fibers - All ArmD[®] fibers
- Active bundle surface geometries: Circular, Semi-circular, Square, Rectangular, Line, Ring, Segmented ring
- Design: Single-branch, Dual-branch or Multi-branch
- Bundle variant: Glued or Fused end

Available
Wavelengths:
180 - 2400 nm

Fused-Ends: The fusing process collapses the fibers in the bundle, eliminating gaps and creating a honeycomb-like structure. This configuration significantly enhances transmission efficiency by reducing signal loss and improving uniformity across the bundle.

Numerical aperture (NA):

- Low 0.12 ± 0.02 ;
- Standard 0.22 ± 0.02 ;
- High 0.28 ± 0.02 ;
- 0.37 ± 0.02 (ArmD[®] NIR-Ge)



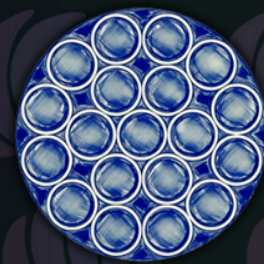
Scan to see more



ArmD[®] Fiber Bundles

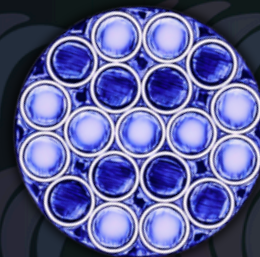
Gluing

Glued fiber bundles provide unparalleled flexibility, allowing for a wide range of achievable diameters and geometries.



Sorting

Sorting the fibers enables an even power distribution among multiple bundle arms and enhances measurement precision through spatial mapping of the fibers.



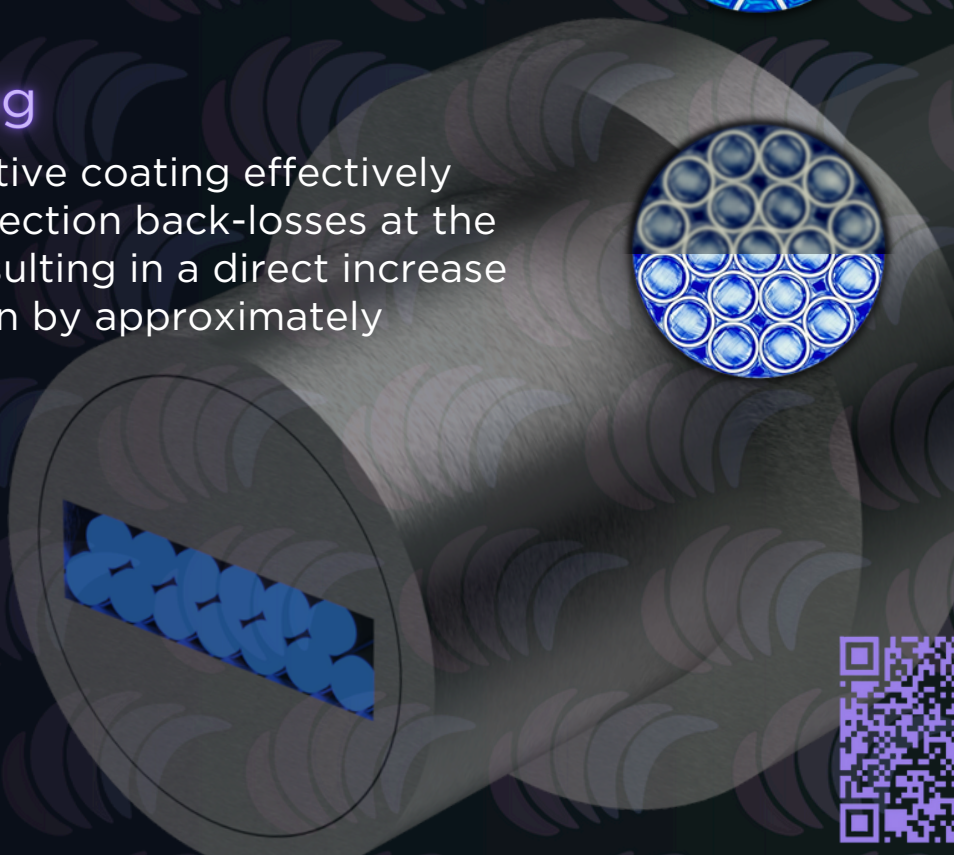
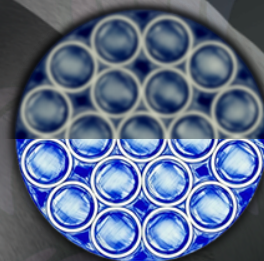
Fusion

In fused fiber bundles, the elimination of gaps between fibers leads to an increased filling factor, consequently boosting transmission by up to 20%.



AR coating

An anti-reflective coating effectively minimizes reflection back-losses at the fiber ends, resulting in a direct increase in transmission by approximately 3.5% per end.



Scan to see more

We cover the full cycle from inquiry to production



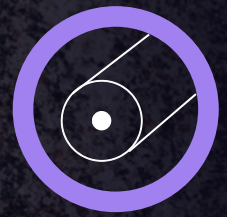
Inquiry



Technical
development



Prototyping



Production

- Highest Quality Fiber
- Competitive Pricing
- Short Lead Times



Let us assist you with
your project and help you find
the perfect optical fiber solution.
Scan QR code to visit our homepage.

