

Custom Fiber Optic Cable Model and Specification Table



Article Overview

Custom fiber optic cables can be tailored by fiber type, core size, jacket material, connector type, and mechanical properties to meet industrial, medical, or data communication requirements.

Overview of Custom Fiber Options

Custom fiber optic cables are designed for high performance and durability under demanding conditions. Key fiber types include:

- Fused Silica (Silica/Silica): Ideal for laser and UV applications, high light transmission, and thermal stability .
- Borosilicate: Resistant to high temperatures and chemicals .
- PMMA (Polymethyl Methacrylate): Lightweight with high light transmittance, suitable for short-distance or flexible applications .
- Silica-Hard-Clad: Enhanced mechanical durability for rugged environments . Cables can be armored or ruggedized with steel or TPU jackets for industrial and outdoor use, or standard PVC/PE jackets for indoor applications .

Typical Specification Table

Parameter	Options / Range	Notes
Fiber Core Type	G.652.D, G.655, G.657.A1, G.657.A2, OM1, OM2, OM3, OM4	Single-mode or multi-mode depending on application
Numerical Aperture (NA)	0.22 – 0.50	Higher NA improves light collection efficiency
Fiber Count	1 – 8 fibers	Can be customized for high-density or multi-channel systems
Jacket Material	...	

Article Content

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Custom FIBER OPTIC CABLE Aimifiber will listen to your fiber requirements and work with you to define performance requirements,

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CORNING OPTICAL COMMUNICATIONS GENERIC SPECIFICATION

2.0 Fiber Specifications 2.1 Detailed information on the fiber types available for this cable design can be found in the following

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Fiber optic cable Catalog

Optical Fiber Core could be applied as G.652.D, G.655, G.657.A1, G.657.A2, OM1, OM2, OM3, OM4 according to needs. Maximum

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As a custom fiber-optic cable manufacturer, Infinity Fiber Inc. caters to many industries nationwide. Large Core Industrial

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Cables: Fiber

The 4 fiber type designations OM1, OM2, OM3, OS1 and OS2 relate to cable transmission performance. In ISO/IEC 11801:2002 and

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Everything you need to know about Custom fiber Optic Cable

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Optical fiber tables and chromatic dispersion specs

In this table, 802.3 has analyzed available information on connector loss, optical return loss and PMD in order to define optical

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Custom Fiber Optic Cables in Less Than 3 Weeks

Application Focused Design OptoSpan offers custom designed and purpose-built fiber optic cables. Our engineers will work closely

Contact Us

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