



Specialty Fiber



Issue date: 04/11  
Supersedes: 02/10

For the Telecommunication industry

- Active Optical Components
- Passive Optical Components
- Optical Wiring

**Product Type:** G.652.D ESMF 900 μm PVDF

**Buffer Type:** 900 μm PVDF

**Coating Type:** Natural or ColorLock-XS

Draka's PVDF 900 μm Enhanced Single-Mode Optical Fiber provides industry leading macro-bending performance in a small, versatile tight buffer. This fiber is available in standard fiber geometry and Draka's precision Patch Cord fiber geometry, for applications with stringent geometry requirements.

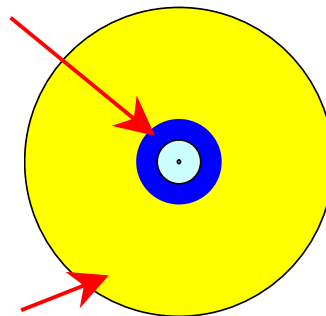


Value Innovation is a way of looking at the world. How we can help our customers do more, make more, save more, achieve more.

Features	Benefits
900 μm PVDF Tight Buffer	<ul style="list-style-type: none"> <li>• Flexible and durable allowing for easy handling</li> <li>• Excellent chemical resistance</li> <li>• Excellent high and low temperature resistance</li> </ul>
UL-94 Flammability Test Class V-0	Excellent flame and smoke resistance
Compatible with ITU-T G.652.D	Meets most stringent industry fiber bending standards and is backwards compatible with existing single-mode fibers
Draka's Proprietary manufacturing process	Superior geometry, uniformity and homogeneity



ESMF



900 μm PVDF

**G.652.D ESMF Tight Buffered Fiber**
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**Optical Specifications**

Attenuation <sup>1</sup>	Specified Value
Attenuation Coefficient at 1310 nm	≤ 0.5 dB/km
Attenuation Coefficient at 1550 nm	≤ 0.5 dB/km

**Geometrical Specifications**

Parameters	Standard	Patchcord
Cladding Diameter	125 ± 0.7 µm	125 ± 0.4 µm
Core/Cladding Concentricity Error	≤ 0.5 µm	≤ 0.3 µm
Core/Cladding Non-Circularity	≤ 0.7 %	≤ 0.3 %
Coating Diameter	242 ± 7 µm	242 ± 5 µm
Coating/Cladding Concentricity Error	≤ 12 µm	≤ 10 µm
Coating Non-Circularity	≤ 5 %	≤ 5 %
Tight Buffer Diameter	900 ± 50 µm	900 ± 50 µm

**Mechanical Specifications**

Parameters	Specified Value
Fiber Proof Strength	≥ 100 kpsi ≥ 0.7 GPa
Minimum Bend Radius	20 mm

**Environmental Specifications**

Parameters	Specified Value
Operating Temperature	≥ - 20°C to ≤ + 80°C
Installation	≥ 0°C to ≤ + 50°C
Storage	≥ - 40°C to ≤ + 80°C

**Fiber Types<sup>2</sup>**

ESMF for normal applications

ESMF Patch Cord for applications requiring precise fiber geometry

Fibers available in Natural or ColorLock-XS coating

<sup>1</sup> Other attenuation levels available on request

<sup>2</sup> Refer to fiber datasheets for complete optical, geometrical, mechanical and environmental specifications

## How can we be of service to you?

Value Innovation is a way of looking at the world. How can we help our customers do more, make more, save more, achieve more?

Take DrakaElite™. Based on our proprietary manufacturing process and our control of all technological building blocks, we offer an extensive portfolio of specialized optical fibers that have been designed, developed, manufactured

and tested for every environment. Whether you want to guide, amplify, transmit, process, control or sense light, Draka has the fiber you need, whatever your environment. And if for some reason we don't have exactly what you need, well, we'll just make it.

That's Value Innovation in action.

### Draka Communications

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The Draka Communications policy of continuous improvement may cause in changed specifications without prior notice