

Tight Buffered Fiber - Highest bandwidth available in the market



Specialty Fiber



Issue date: 02/10
Supersedes: 09/09

Product Type: 50 / 125 µm MMF 900 µm PVDF

Buffer Type: 900 µm PVDF

Coating Type: Natural or U.V. Colored

For premises cabling in Datacom networks

- Innovative products for Local Area Network (LAN) applications



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



Draka's PVDF 900 µm Multimode Optical Fiber provides industry leading macro-bending performance in a small, versatile tight buffer.

This graded-index 50/125 µm multimode fiber has a 50 µm core diameter and a 125 µm cladding diameter. The fiber is designed for use at 850 nm and/or 1300 nm and is suitable for use in premises cabling applications, like Local Area Networks (including backbone, riser and horizontal) with video, data and/or voice services using LED, VCSEL and Fabry-Perot laser sources at 850 nm or 1300 nm. This multimode fiber assures full compatibility with legacy systems, like Fast Ethernet, FDDI, ATM, Fibre Channel and 1Gb/s Ethernet. Because of the nature of the Plasma-activated Chemical Vapor Deposition (PCVD and APVD™) manufacturing process, this fiber offers the highest bandwidth available in the market.

The fiber complies with or exceeds ITU Recommendation G.651.1, IEC 60793-2-10 type A1a.1 Optical Fiber Specification, TIA/EIA-492AAAB detail specification and Telcordia GR-20-CORE and GR-409-CORE specifications.

Features	Benefits
900 µm PVDF Tight Buffer	<ul style="list-style-type: none"> • Flexible and durable allowing for easy handling • Excellent chemical resistance • Excellent high and low temperature resistance
UL-94 Flammability Test Class V-0	Excellent flame and smoke resistance
Extremely low bend loss	Allows for small bend radii for tight space applications
Produced by the PCVD and APVD™ processes, the ultimate processes for graded-index multimode fibers	<ul style="list-style-type: none"> • Superior geometry, uniformity and purity of glass • PCVD and APVD™ produced multimode fibers show excellent modal bandwidth performance
Coated with the Dual Layer UV Acrylate	<ul style="list-style-type: none"> • Optimized performance in tight-buffer cable applications • High resistance to micro-bending • Stable performance over a wide range of environmental conditions • Improved an easier stripability of tight buffer coatings

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Optical Specifications
Attenuation¹

Attenuation Coefficient at 850 nm	≤ 2.8 dB/km
Attenuation Coefficient at 1300 nm	≤ 1 dB/km

Overfilled Modal Bandwidth²

Modal Bandwidth at 850 nm	≥ 400 to ≥ 1000 MHz.km
Modal Bandwidth at 1300 nm	≥ 400 to ≥ 1500 MHz.km

Geometrical Specifications
Parameters

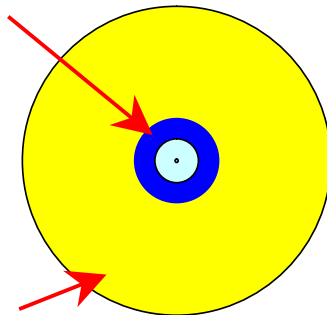
Core Diameter	50 ± 2 µm
Core Non-Circularity	≤ 5 %
Core/Cladding Concentricity Error	≤ 1 µm
Cladding Diameter	125.0 ± 1.0 µm
Cladding Non-Circularity	≤ 0.7 %
Coating Diameter	242 ± 5 µm
Coating Non-Circularity	≤ 5 %
Coating/Cladding Concentricity Error	≤ 6 µm
Tight Buffer Diameter	900 ± 50 µm

Mechanical Specifications
Parameters

Fiber Proof Strength	≥ 100 kpsi ≥ 0.7 GPa
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Environmental Specifications
Parameters

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

50 µm MMF

900 µm PVDF
¹ Other attenuation levels available on request

² The modal bandwidth is linearly normalised to 1 km, according to IEC 60793-2-10.

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