

Tight-Buffer Optical Fiber

600 μm & 900 μm

Rugged, Versatile Buffer Optical Fibers Ideal for Confined Installations

Product Description

The OFS 600 Micron (μm) and 900 μm Tight-Buffered Optical Fibers provide cost-effective solutions for a wide variety of applications in telecommunications networks and local area networks (LANs) where space is at a premium.

The Tight-Buffered Fiber products are composed of high-quality, dual window fiber. Each fiber is coated with OFS' D-LUX[®] 100 protective coating and tight-buffer material to create durable, yet easy-to-handle fibers, perfect for a variety of environmental conditions. These tight-buffered fibers are available with a choice of Riser PVC, Plenum PVC or nylon Low Smoke Zero Halogen (LS0H) buffer materials.

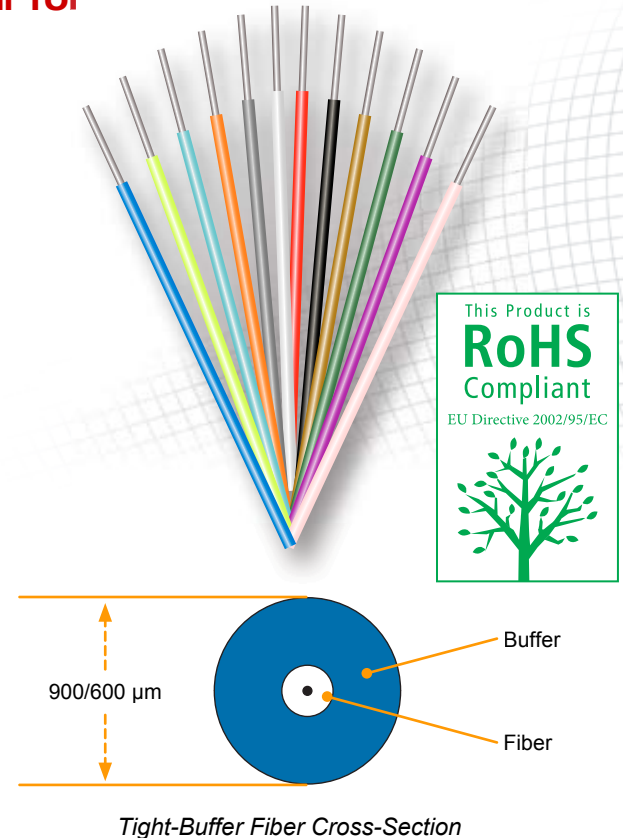
Why the Tight-Buffered Fibers?

Valued for their ultra-small size, versatility and strength, the 600 μm and 900 μm Tight-Buffered Fibers have more than a 20-year proven record of providing excellent transmission performance and connectivity in a wide variety of networks. These rugged fibers can withstand the abuse of repeated handling in patch panels and communications closets, moves, changes, reconnects and tests without affecting performance.

Designed for easy, reliable deployment, the Tight-Buffered Fibers help enable savings on cabinet space; labor; equipment and storage; upgrade costs; fiber longevity; and installation time.

The 600 μm and 900 μm Tight-Buffered Fibers are typically used as pigtails for active and passive optical devices and for optical wiring in NICs where additional protection is desired for the optical fiber.

These Tight-Buffered Fibers are an outstanding choice to handle virtually any interconnect and/or cross connect application in network systems including WDM, optical switching, amplifier, DWDM, TDM, adds/drops and monitors. They are also a "must" for packaging optical network devices, including optical switches, optical splitters, attenuators, modulators and other items.



Features and Benefits:

- Ultra-small and durable fibers, ideal for a variety of installation environments
- Save on space, allowing more cross-connects and/or interconnects in the same area
- Cladding diameter (125 micron \pm 1 micron) helps eliminate the need to rework connectors and splices
- Available with choice of Riser or Plenum PVC or LS0H Nylon buffer materials
- May be terminated with any type/size connector, saving on equipment and storage
- Reduces upgrade costs (only the electronics must be changed)
- High-quality tight buffering and D-LUX 100 protective coating help extend fiber life
- RoHS-compliant, meets or exceeds the highest industry standards including Telcordia Technologies GR-409 CORE, EIA/TIA 492 and 455 and ICEA S-83-596; rated under UL 1581-VW1, UL 94-VO and AWM Style 5389
- Available with OFS AllWave[®] FLEX Zero Water Peak Single-Mode Fiber, AllWave ZWP Single-Mode Fiber and other fibers (including Multimode)

Specifications

Fiber Count: 1 Fiber Dimensions: 600 µm: Cladding 125 µm; Coating 250 µm; Buffering 600 µm
 900 µm: Cladding 125 µm; Coating 250 µm; Buffering 900 µm

Maximum Reel Length

Single-Mode Fibers: 9.5 km Multimode Fibers: 8.0 km

Performance Standard

Tested per Applicable Standards of TIA/EIA 492 and 455, ICEA S-83-596, GR-409 CORE and ISO/IEC 794.

Note: Low Smoke PVC and Riser PVC designs meet the fire performance standards of UL 1581-VW1 and UL 94-VO.

Handling

Temperature: Installation: -0° C to 50° C (22° F to 122° F)
 Operation: -20° C to 70° C (-4° F to 158° F)
 Storage: -40° C to 70° C (-40° F to 158° F)

Maximum Cable Attenuation*

Single-Mode Fibers (dB/km)	1310 nm	1385 nm	1550 nm
AllWave ZWP Single-Mode Fiber	0.5	0.5	0.5
AllWave FLEX ZWP Single-Mode Fiber	0.4	0.4	0.3

Multimode Fibers (dB/km)	850 nm	1300 nm
62.5 µm Multimode Fiber	3.4	1.0
50 µm Multimode and LaserWave® G+ Fibers	3.5	1.5
LaserWave 300 and LaserWave 550 Fibers	3.0	1.0

* **Note:** Attenuation of tight-buffered fiber (LGBF) may be up to 20% higher than these values due to the tension of winding on a shipping spool.

600 µm & 900 µm Tight-Buffered Fiber Ordering Information

Example: **LGBF-1B-WRY**¹

Part Number: **MTBF/LGBF-1B-XYZ**¹

MTBF = 600 µm Fiber

LGBF = 900 µm Fiber

1 = Single-Fiber Version

B = Tight Buffered

X = Fiber Type (See Chart)

Y = Buffer (Jacket) Type

N = LS0H Nylon

P = Low Smoke PVC

R = Riser PVC

Z = Jacket Color²

Y = Yellow (Single-Mode Fiber)

O = Orange (50/125 µm and 62.5/125 µm Multimode Fiber)

A = Aqua (LaserWave Fiber)

Fiber Type

Code	Description
W	AllWave FLEX ZWP Bend-Optimized Single-Mode Fiber
A	AllWave ZWP Single-Mode Fiber
T	TrueWave® RS LWP Single-Mode Fiber
F	LaserWave 550 Multimode Fiber
Z	LaserWave 300 Multimode Fiber
H	LaserWave G+ Multimode Fiber
G	Laser-Optimized 50 µm Multimode Fiber
M	50/125 µm Multimode Fiber
L	62.5/125 µm Multimode Fiber
I	Laser-Optimized 62.5/125 µm Multimode Fiber

¹ Part Number shown is for a 900 µm Tight-Buffered Fiber, with one AllWave FLEX ZWP Fiber with Riser PVC Buffer.

² Alternate buffer jacket colors are available on request.



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