SINGLE-MODE OPTICAL FIBER ON REELS

G.652.D

Low-loss, zero-water-peak fiber

Low attenuation across the operating spectrum for long-haul backbone, metropolitan and access networks. Precision mode-field geometry supports consistent splicing and network compatibility.

Application: Backbone & metro

Parameter / test condition	Reference specification
Attenuation at 1310 nm	**≤ 0.330 dB/km (standard)**
Attenuation at 1550 nm	**≤ 0.185 dB/km (standard)**
Optional low-loss grade at 1550 nm	**≤ 0.180 dB/km**
Cladding diameter	**125 ± 0.7 µm**
Mode field diameter at 1310 nm	**9.2 ± 0.4 µm**
Coating diameter	**242 ± 7 µm**

Source: Jiangsu Nanfang Optical Fiber Product Manual, pages 3-4.

Supplier reference values; not a batch test certificate. Confirm the offered supplier, grade, coating, reel lengths and batch documentation with the quotation. Source product names do not imply authorized distributorship.

Bend-loss figures apply to the stated radius, turns and wavelength. They are not finished-cable installation limits.

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SINGLE-MODE OPTICAL FIBER ON REELS

G.657.A1

Bend-insensitive access fiber

A balanced choice for fiber access networks, combining bend resistance with compatibility with G.652.D fiber. Available with standard or reduced coating diameter for different cable designs.

Application: FTTx & access networks

Parameter / test condition	Reference specification
Attenuation at 1310 nm	**≤ 0.350 dB/km**
Attenuation at 1550 nm	**≤ 0.210 dB/km**
Cladding diameter	**125 ± 0.7 µm**
Coating diameter	**245 ± 10 µm / 200 ± 10 µm**
Cable cut-off wavelength	**≤ 1260 nm**
Macrobend: 15 mm radius, 10 turns, 1550 nm	**≤ 0.25 dB**

Source: BendCom G.657.A1 Bending Insensitive Single-mode Optical Fiber datasheet, pages 1-2.

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SINGLE-MODE OPTICAL FIBER ON REELS

G.657.A2

Greater flexibility. Smaller spaces.

Bend-insensitive fiber for dense metropolitan networks, air-blown microcables and space-constrained access routes. Reduced-coating options help cable designers make better use of limited duct space.

Application: High-density FTTx

Parameter / test condition	Reference specification
Attenuation at 1310 nm	**≤ 0.350 dB/km**
Attenuation at 1550 nm	**≤ 0.210 dB/km**
Cladding diameter	**125 ± 0.7 µm**
Coating diameter (table value)	**242 ± 7 µm / 200 ± 10 µm**
Mode field diameter at 1310 nm	**8.6 ± 0.4 µm**
Macrobend: 7.5 mm radius, 1 turn, 1550 nm	**≤ 0.40 dB**

Source: Jiangsu Nanfang Optical Fiber Product Manual, pages 7-8.

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Bend-loss figures apply to the stated radius, turns and wavelength. They are not finished-cable installation limits.

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SINGLE-MODE OPTICAL FIBER ON REELS

G.657.B3

Built for tighter fiber routing

An ultra-bend-resistant option for indoor FTTH and installations with particularly tight routing requirements. Specify the cable construction and installation conditions with your inquiry.

Application: Indoor FTTH

Parameter / test condition	Reference specification
Attenuation at 1550 nm	**≤ 0.210 dB/km**
Cladding diameter	**125 ± 0.7 µm**
Coating diameter	**242 ± 7 µm**
Mode field diameter at 1310 nm	**8.6 ± 0.4 µm**
Macrobend: 5 mm radius, 1 turn, 1550 nm	**≤ 0.15 dB**
Macrobend: 5 mm radius, 1 turn, 1625 nm	**≤ 0.45 dB**

Source: Jiangsu Nanfang Optical Fiber Product Manual, pages 9-10.

Supplier reference values; not a batch test certificate. Confirm the offered supplier, grade, coating, reel lengths and batch documentation with the quotation. Source product names do not imply authorized distributorship.

Bend-loss figures apply to the stated radius, turns and wavelength. They are not finished-cable installation limits.

MULTIMODE OPTICAL FIBER ON REELS

OM1

Multimode fiber for established networks

62.5/125 µm graded-index multimode fiber for local area networks and compatible voice, video and data links. Match the fiber to the existing network geometry, operating wavelength and optical equipment when planning an extension or replacement.

Application: LAN & network extensions

Parameter / test condition	Reference specification
Core diameter	**62.5 ± 2.5 µm**
Cladding diameter	**125.0 ± 1.0 µm**
Attenuation at 850 nm	**≤ 2.7 dB/km**
Attenuation at 1300 nm	**≤ 0.6 dB/km**
Overfilled modal bandwidth at 850 nm	**≥ 200 MHz·km**
Overfilled modal bandwidth at 1300 nm	**≥ 500 MHz·km**
Coating diameter	**245 ± 7 µm**

Source: YOFC OM1 (62.5/125 µm) Multimode Fibre - reference specifications.

https://en.yofc.com/view/1469.html

Supplier reference values; not a batch test certificate. Confirm the offered supplier, grade, coating, reel lengths and batch documentation with the quotation. Source product names do not imply authorized distributorship.

OFL and effective modal bandwidth are different measurements. Link reach depends on the optical equipment and complete channel design.

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MULTIMODE OPTICAL FIBER ON REELS

OM3

Laser-optimized multimode fiber

50/125 µm graded-index multimode fiber designed for 850 nm VCSEL-based links. A practical option for LANs, data centers and storage networks using compatible short-reach optics.

Application: Data centers & LAN

Parameter / test condition	Reference specification
Core diameter	**50.0 ± 2.5 µm**
Cladding diameter	**125 ± 1.0 µm**
Attenuation at 850 nm	**≤ 2.4 dB/km**
Attenuation at 1300 nm	**≤ 0.6 dB/km**
Effective modal bandwidth at 850 nm	**≥ 2000 MHz·km**
Coating diameter	**245 ± 7 µm**

Source: Jiangsu Nanfang Optical Fiber Product Manual, pages 13-14.

Supplier reference values; not a batch test certificate. Confirm the offered supplier, grade, coating, reel lengths and batch documentation with the quotation. Source product names do not imply authorized distributorship.

OFL and effective modal bandwidth are different measurements. Link reach depends on the optical equipment and complete channel design.

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MULTIMODE OPTICAL FIBER ON REELS

OM4

More bandwidth for connected data

High-bandwidth 50/125 µm multimode fiber for demanding data center and storage network links. Link reach depends on the transceiver standard, connectors and the complete channel loss budget.

Application: High-bandwidth data centers

Parameter / test condition	Reference specification
Core diameter	**50.0 ± 2.5 µm**
Cladding diameter	**125 ± 1.0 µm**
Attenuation at 850 nm	**≤ 2.4 dB/km**
Attenuation at 1300 nm	**≤ 0.6 dB/km**
Effective modal bandwidth at 850 nm	**≥ 4700 MHz·km**
Coating diameter	**245 ± 7 µm**

Source: Jiangsu Nanfang Optical Fiber Product Manual, pages 15-16.

Supplier reference values; not a batch test certificate. Confirm the offered supplier, grade, coating, reel lengths and batch documentation with the quotation. Source product names do not imply authorized distributorship.

OFL and effective modal bandwidth are different measurements. Link reach depends on the optical equipment and complete channel design.

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