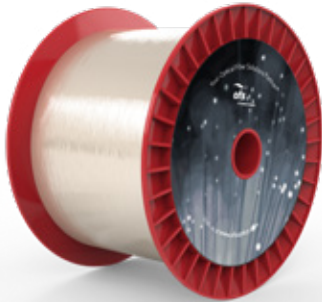


50/125 Hermetic PYRO Graded-Index Optical Fiber

P/N: BF05781



Overview

This fiber features a 50 μm core and a 125 μm silica cladding. The fiber coating is 155 μm carbon/polyimide.

50/125 Hermetic PYRO is typically used in applications where high bandwidth, resistance to high temperatures and survival in extreme environments are required. The fiber can use either 850 or 1300 LED or laser light sources.

Typical Applications

Distributed Temperature
Sensing

Extreme-Temperature
Environments



A Furukawa Company

50/125 Hermetic PYRO Graded-Index Optical Fiber

P/N: BF05781

| Product Specifications | |
|------------------------------|---|
| Product Description | 50/125 Hermetic PYRO Graded-Index Optical Fiber |
| Physical Characteristics | |
| Coating Material | Carbon/PYROCOAT® Polyimide |
| Core Diameter | 50 ± 3 µm |
| Cladding Diameter | 125 ± 2 µm |
| Coating Diameter | 155 ± 5 µm |
| Core/Clad Offset | ≤ 3 µm |
| Core Non-Circularity | ≤ 5% |
| Clad Non-Circularity | ≤ 2.0% |
| Crimp & Cleave Compatible | No |
| Optical Characteristics | |
| Type | Multimode Graded-Index |
| Numerical Aperture | 0.20 |
| Bandwidth @ 1300 nm | ≥ 400 MHz-km |
| Bandwidth @ 850 nm | ≥ 400 MHz-km |
| Attenuation @ 1300 nm | ≤ 2 dB/km |
| Attenuation @ 850 nm | ≤ 4 dB/km |
| Mechanical and Environmental | |
| Operating Temperature | -65 to +300 °C |
| Short-Term Bend Radius | ≥ 8 mm |
| Long-Term Bend Radius | ≥ 10 mm |
| Proof Test Level | 100 kpsi (0.689 GPa) |
| Order by Part Number | BF05781 |
| Product Description Code | TCU-ME050J |

OPTIONS: Cabling, Connectorization, Metalization

NOTES: OFS polyimide optical fibers are known to operate in environments up to 300 °C. Performance is application dependent. Contact our Technical Sales department to discuss your specific application requirements.

For additional information please contact your sales representative.

You can also visit our website at www.ofsoptics.com or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.



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