

Photonics

Brillouin Fiber



The fiber's Brillouin gain profile was designed for high accuracy distributed strain sensing applications. Scattering peak parameters that assure optimal sensor operation are Brillouin frequency shift > 10.850 GHz and Brillouin bandwidth < 35 MHz. The central frequency can be adjusted according to Customer's order. Cladding diameter and refractive index are equal to standard telecom fiber parameters

APPLICATIONS

- ✓ Distributed strain sensors
- ✓ Structural Health Monitoring

ADVANTAGES & FEATURES

- ✓ Brillouin peak parameters optimized for sensor applications
- ✓ Adjustment of central frequency possible
- ✓ Single-mode operation above 1260 nm

TECHNICAL SPECIFICATIONS:

Parameter	Value
Brillouin Frequency Shift [GHz]	> 10.850
Brillouin bandwidth [MHz]	< 35
Max. cutoff wavelength [nm]	1260
MFD at 1310 nm [μm]	9.2±0.4
Cladding diameter [μm]	125.8±0.3
Max. attenuation at 1310 nm [dB/km]	0.390
Max. attenuation at 1550 nm [dB/km]	0.385
Cladding refractive index	1.45670

ORDERING INFORMATION:

Series	Fiber type	Manufacturer
OTK	BRILLOUIN	FB

Important notice

Buyer and/or user of this product has to make sure before using this product that it is suitable for the intended use. All questions of liability relating to this product are subject – in accordance with the prevailing – to the Term of Sale of the selling Fibrain subsidiary.