

CORNING

Fibrance®
Light-Diffusing Fiber



Corning® Fibrance® Light Diffusing Fiber Small Form-Factor Laser Assemblies

Corning® Fibrance® Light Diffusing Fiber is a glass optical fiber designed for thin, colorful, ambient lighting. Along with a small form factor laser module, Fibrance technology enables decorative lighting to be designed or embedded into tight or small places where other bulky lighting elements cannot fit. The small form factor laser provides a compact solution for coupling light into Fibrance technology. The laser diode is pre-connected to a 3 m long fiber and can be easily hidden to create uniform, thin lighting designs.

Product Attributes

Color	Red or Blue
Fiber Length	3 m
Fiber Glass Core Diameter	170 +/- 3 micron
Fiber Clad Diameter	230 +/- 10 micron
Fiber Numerical Aperture	0.50 NA
Jacket Outer Diameter	700-900 microns
Fiber Proof Test	> 100 kpsi

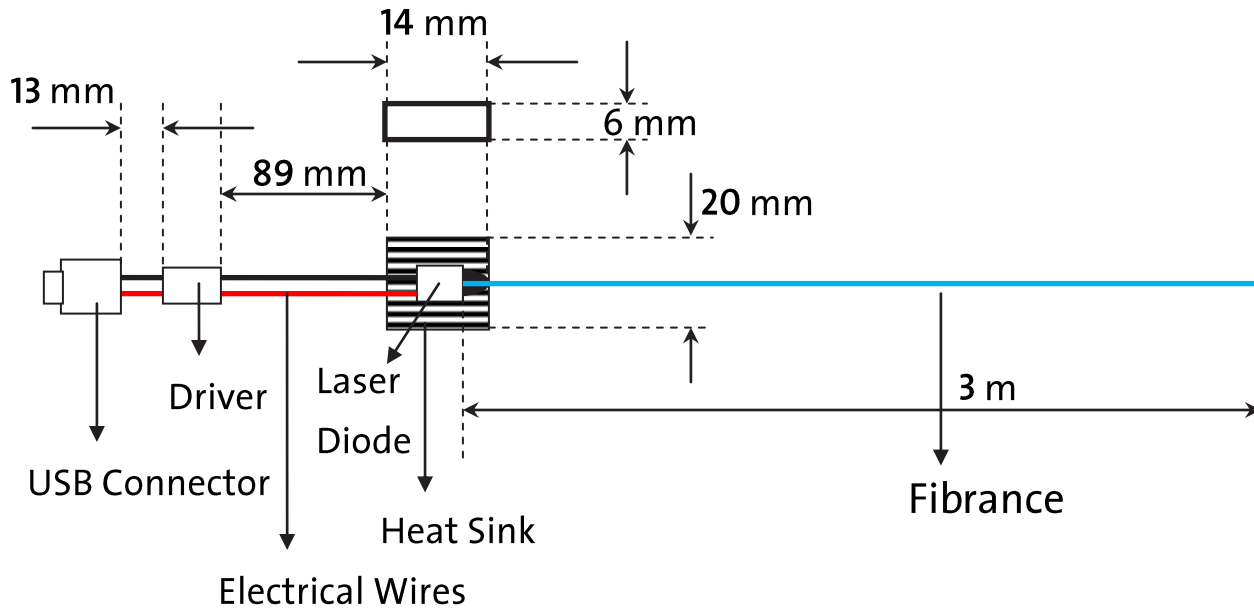
Optical and Electrical Characteristics

Wavelength	638 +/- 5 nm or 450 +/- 5 nm
Operating Voltage Input	5.0 VDC
Electrical Connector	USB Type A Male Connector (5 VDC)
Laser Mode	CW
Operating Current	< 90 mA
Fiber Connector	None
Control Interface	Auto Constant Current
Fiber Proof Test	> 100 kpsi
Circuit Protection	Static, Surge, Reverse Polarity

Environmental and Regulatory

Regulation	Class 3R laser, CDRH/ROHS compliant
Max Case Temperature	-10 to +50°C
Storage Temperature	-40 to +80°C

Mechanical Drawing



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For more information, visit our website:
www.corning.com/fibrance

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