Specification Sheet
08.2016

Corning® Fibrance® Light-Diffusing Fiber with Connectors

Fibrance Light-Diffusing Fiber is a glass optical fiber made for thin, colorful, aesthetic lighting. This technology enables decorative lighting to be designed or embedded into tight or small places where other bulky lighting elements cannot fit. With this fiber, designers can add light where and how they want, while enhancing the product's overall appeal, functionality, and user experience.

Benefits of Fibrance

- Emits continuous uniform light
- Bright, clear color
- Light, thin and flexible
- Tight-bend capability
- Proprietary glass optical fiber core
- Very low thermal output
- Versatile for many applications

Products available in standard lengths of 1 m, 5 m, and 10 m, with matched diffusion lengths. Standard with 900 micron clear outer jacket. Fiber designs have been optimized for use with laser diode sources.

Corning Fibrance Light-Diffusing Fiber Product Attributes

Optical

Light-Diffusion Length (Nominal)	1 m	5 m	10 m
Light-Diffusion Output	90% at nominal diffusion length		
Numerical Aperture	> 0.5		
Operating Wavelength Range	405 – 1000 nm evaluated, broader possible		
Viewing Angle [1]	> 120 degrees		
Optical Connector	FC		
Connector Options	One end connectorized is standard		

Mechanical

Core Diameter	170 ± 3 µm		
Outer Diameter	230 ± 10 µm		
Physical Length (Nominal)	1 m	5 m	10 m
Jacket Diameter (Nominal)	900 µm		
Jacket Material	Optical Grade PVC		
Proof Test - Tensile Strength	> 100 kpsi		

Environmental

Operating Temperature Range	-40 to +65°C
Storage Temperature Range	-40 to +65°C

Notes

[1] Viewing angle is defined as the angle at which the luminance is greater than 50% of the maximum. The fiber emits light uniformly in 360° around the circumference of the fiber and >120° along the length of the fiber if viewed from either end.

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