



SOLID CORE FIBER OPTIC SIDE GLOW CABLE

Side Beam fiber optic cable is a single large diameter monofilament which can transmit light over reasonably long distances. Light is transmitted over the entire length of the solid core optic, without electricity or heat.

The light source is an illuminator which is placed at one, or both ends of the fiber. Color wheels can be added to the illuminator to change the color of the fiber to as many as eight colors.

Utilizing a recently perfected production process called continuous casting; Side Beam solid core optical fiber can achieve brilliant color clarity and a continuous bright light transmission which was not possible in earlier solid core fiber extrusions. A crystal clear Teflon sleeve and excellent core/clad adhesion gives a high intensity brightness along the entire length of the optic cable.

Specifications

Core: Solid Optical Gel

Outer Jacket: Clear Teflon

Outside Diameter: See table below

Spool Length: 64 ft and 328ft

Bend Radius: Minimum 6 x fiber diameter

Acceptance Angle: 45°

Numeric Aperture: 0.68

Attenuation: Less than 1.6% per foot

Operating Temperature Range: Minimum -40°F (-15°C)

Maximum 248°F (120°C)

Moisture Absorption: Core is hydroscopic. Optic ends must be sealed to avoid absorption.

Chemical Resistance: Cladding is chemically resistant and impervious to solvents. Core is affected by strong solvents.

Core Diameter	Outside Diameter
2.0mm	3.5mm
2.5mm	4.0mm
3.0mm	4.5mm
4.0mm	5.0mm
5.0mm	7.0mm
6.0mm	8.8mm
8.0mm	11.0mm
10.0mm	13.0mm
12.0mm	14.0mm
14.0mm	17.3mm
16.0mm	18.0mm
18.0mm	20.0mm