

TWA LIGHTING COMPANY

Optical Fiber Technology has been around for many years. However its early applications were limited. Optical Fiber have taken a new direction in the lighting industry and TWA Lighting would like to share these new innovative ways to enjoy the beauty of light and color using Optical Fiber and Light Engines.

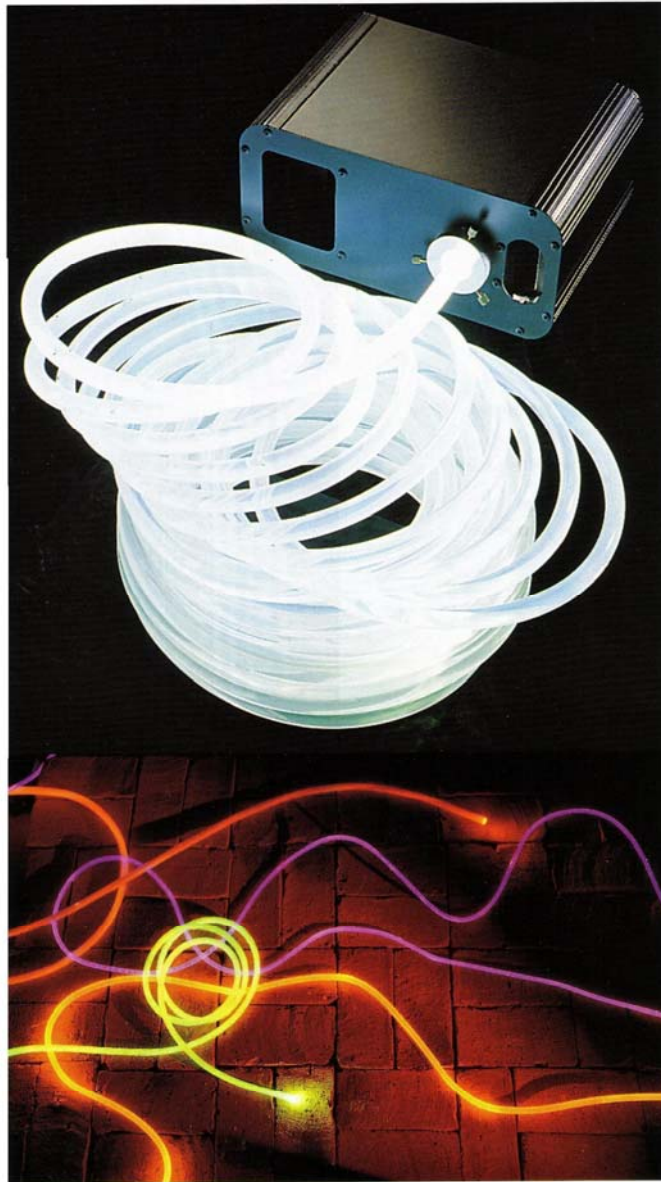
There are two varieties of Optical Fiber available. One being a Side Light application where the difference in the light refraction index between the interior sheath surface and the fiber optic core creates a uniform light emission along the length of the fiber.

The other is a End Light where the inner core is protected by a black casing around it. End Light is often seen in displays, where lenses (end pieces) are attached to the ends of the fiber optic cable to focus light as desired. End Light can be used for creating a "star" ceiling and "twinkling" curtain effects, for forming graphics with points of lights.

Optical Fiber products can also be used for outdoor lawn, walkway illumination, swimming pools, fountains, waterfalls, nightclubs, restaurants, bars, hotels, shopping malls, buildings and many other applications.

Whether for indoor or outdoor applications Fiber Optic technology presents the safest approach to decorative illumination available. Powered by a remote light source called a "light engine", fiber optic cable carries no heat or electricity. Transmitting only pure light to wherever illumination is required. Extremely low UV levels, also make fiber optics particularly suitable for illuminating sensitive displays, such as those found in museums.

Please check out the many photo's to see which of these applications may best suit your needs.



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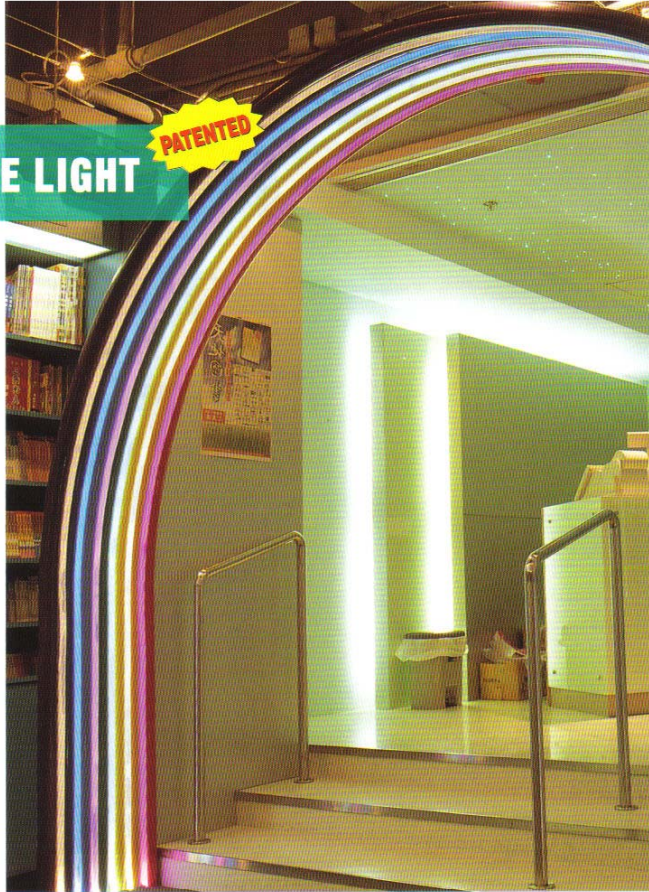
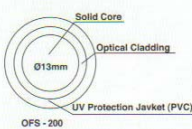
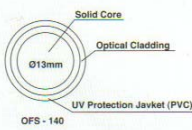
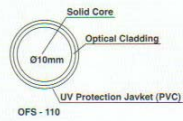
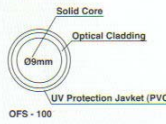
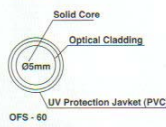
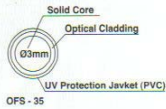


SOLID CORE SIDE LIGHT

PATENTED

Technical Parameter

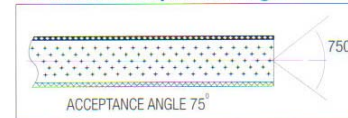
- Active Diameter :
 ϕ 3.5mm; ϕ 6mm; ϕ 10mm; ϕ 11mm; ϕ 14mm
- Recommended min. bend radius :
 4 x CORE DIAMETER
- Temperature range : -20 $^{\circ}$ C - 120 $^{\circ}$ C
- Length : 30M/60M
- Attenuation (dB loss) : \leq 2%/ft
- Wave length : 380 - 780nm
- Advised storage temperature : -15 $^{\circ}$ C - +50 $^{\circ}$ C



Optical Data

- Refractive index of optical core 1.475
- Refractive index of optical cladding 1.34
- Numerical aperture 0.6
- Acceptance angle 75

Durafiber Acceptance Angle



SOLID CORE SIDE LIGHT SPECIFICATION

ITEM NO.	FIBER DIA.(mm)	OUT DIA.(mm)	LENGTH(m)	SHIELDING COLOR
OFS-200	14.0	20.0	30 / 60*	CLEAR
OFS-140	14.0	17.3	30 / 60*	CLEAR
OFS-110	11.0	14.0	30 / 60*	CLEAR
OFS-100	10.0	13.0	30 / 60*	CLEAR
OFS-60	6.0	8.8	30 / 60*	CLEAR
OFS-35	3.5	6.0	30 / 60*	CLEAR

Visit our web site at: www.twalighting.com

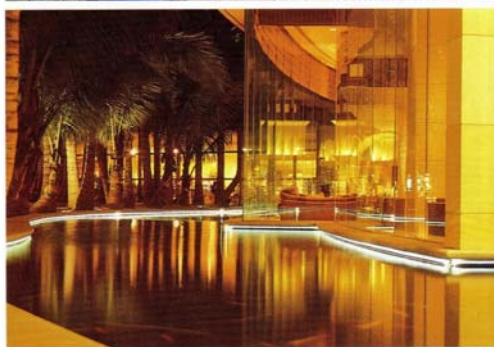
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If you have any questions please feel free to E-mail me: wayne@twalighting.com

TWA LIGHTING COMPANY Examples using Fiber Optics



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FIBER OPTIC CHANDELIER

