FLS
FIBER-OPTIC LED SYSTEM

FLS FIBER-OPTIC LED SYSTEM "ENGINEER LIGHTING SOLUTION"

USHIO introduces a new Fiber-Optic light system that will advance sign illumination, backlighting and cove lighting into a new realm. Using the combination of a high-powered LED and fiber optic cable, the FLS system provides bright and consistent 360 degrees of uniform illumination. Manufactured with a powerful high brightness LED, the FLS system is ideal for applications currently using neon tubing and fluorescent tubes. In addition to sign retrofits and new sign illumination, the FLS's low energy consumption meets the new "energy and sustainability" demands. With a 50,000 hour life, the FLS system is also dimmable and accepts various drive currents to achieve the ideal brightness.

The FLS system is UL recognized and listed in the Sign Accessory Manual. Its Class 2 rating is approved for dry and damp locations.

APPLICATIONS:

- Sign Lighting
- Cove Lighting
- Architectural Lighting
- Cabinetry Lighting
- Display Cases
- Kiosk Lighting
- Museum Lighting
- Vending Machine Lighting
- Automotive Lighting
- Marine Lighting
- Refrigeration Cases

FEATURES & BENEFITS:

- Low energy usage
- Replaces neon tubing, fluorescent tubes & other LED devices
- Sustainable product – No hazardous materials.
- Dimmable & accepts various drive currents to 'Dial-In' desired brightness level
- Low maintenance – Designed to last 50,000 hours
- Adapts to both concealed & exposed curvilinear patterns & backgrounds

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Light Engines Proudly
Made in USA

c **UL** US
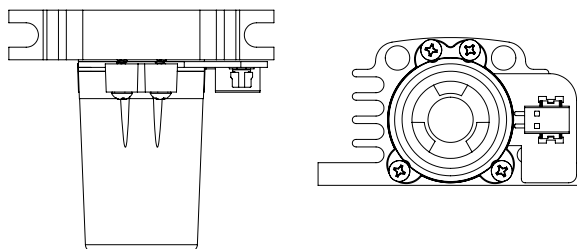UL Recognized for damp locations in US and Canada

USHIO
Lighting —Edge Technologies

FLS FIBER-OPTIC LED

Fiber Diameter: 10mm
Engine Dimensions: 2.125" Wide; 1.19" Height; 1.94" Deep
Module Weight: 42.5g (1.5 oz.)

Watts (W)	Ushio Ordering Code	Ushio Lamp Description	Forward Voltage (V)	Max DC Forward Current (A)	Color Temp (K)	Color Spectrum	CRI	Case Qty
		FLS FIBER LED						
3.3	1003727	Fiber LED Light Engine/White	3.3V @ 1000mA	1500mA	6500	—	75	1
3.3	1002501	Fiber LED BB* Light Engine/Warm White	3.3V @ 1000mA	1500mA	3000	—	75	1
3.3	1002502	Fiber LED BB* Light Engine/White	3.3V @ 1000mA	1500mA	6500	—	80	1
1.6	1003728	Fiber LED Light Engine/Red	2.3V @ 700mA	700mA	—	620-630nm	—	1
3.5	1003729	Fiber LED Light Engine/Blue	3.5V @ 1000mA	1000mA	—	465-480nm	—	1
3.8	1003730	Fiber LED Light Engine/Green	3.8V @ 1000mA	1000mA	—	520-535nm	—	1
N/A	1003773	Fiber LED 10mm Fiber Cable/SS400 (Cut to size and sold by linear foot)						
N/A	1003782	Fiber LED 10mm Fiber Cable/SS10 (Cut to size and sold by linear foot)						
N/A	1003740	Fiber LED 10mm Fiber-Optic Cable Cap						1
		POWER SUPPLIES FOR FLS FIBER LED						
N/A	1003794	12W 1000mA Low Volt Power Supply						1
N/A	1003735	20W 700mA Low Volt Power Supply						1
N/A	1003736	20W 1000mA Low Volt Power Supply						1
N/A	1003737	25W 700mA Low Volt Power Supply						1
N/A	1003738	25W 1040mA Low Volt Power Supply						1
N/A	1003798	40W 1050mA Low Volt Power Supply						1

Lumen Maintenance 70% @ 50,000 Hours
*BB = Black Barrel (special opaque design for cove lighting)
Max Junction Temperature 150°C

Fiber Length: The usable length of fiber optic cable depends upon the application, color and driver current.

Certifications: RoHS Compliant; UL recognized in the sign accessories manual

Power Supply: 12-36V Constant current drivers (class 2)

Fastening: Mechanical or Adhesive

MAXIMUM FIBER-OPTIC CABLE LENGTHS			
Light Engine Type	Fiber-Optic Cable (FOC) Type Max Length @ Uniform Illumination Double Pushed (Light Engine @ Each End)		
	SS400	*SS36	SS10
FLS White	3'	5'	10'
FLS Red	4'	10'	14'+
FLS Blue	3'	10'	14'
FLS Green	3'	10'	14'+
Note: *SS36, Special Order for Large Quantities			

Form No. S-FLSLED/R-0714: Specifications may be subject to change without prior notice. Refer to www.ushio.com for the most current product specifications.

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www.ushio.com