

USHIO

LED LIGHTING

FLS



FLS FIBER-OPTIC LED SYSTEM "ENGINEERED LIGHTING SOLUTION"

USHIO introduces a new Fiber-Optic light system that will advance sign and backlighting 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 has a run length of up to 6 feet (length varies, see back page for details). 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 certified and listed in the Sign Accessory Manual. Its Class 2 rating is approved for wet, dry, and damp locations.

APPLICATIONS

- Sign 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



CHARACTERISTICS & SPECIFICATIONS

FLS FIBER-OPTIC LED

Fiber Diameter: 10mm

Dimensions: 2.25" Deep; 1.5" Height; 1.6" Deep

Module Weight: 45g (1.6 oz.)

Watts (W)	Ushio Ordering Code	Ushio Lamp Description	Luminous Intensity (lm) @ 350mA	Forward Voltage	Max DC Forward Current	Color Temp K	Color Spectrum	CRI
FLS FIBER LED								
3.3	1003727	Fiber-LED Light Engine / White	139	3.3V @ 1000mA	1500mA	6500K	—	75
1.6	1003728	Fiber-LED Light Engine / Red	45.7	2.3V @ 700mA	700mA	—	620-630nm	—
3.5	1003729	Fiber-LED Light Engine / Blue	30.6	3.5V @ 1000mA	1000mA	—	465-480nm	—
3.8	1003730	Fiber-LED Light Engine / Green	93.9	3.8V @ 1000mA	1000mA	—	520-535nm	—
	1003752	Fiber-LED 10mm Fiber Cable (8-foot length)						
	1003740	Fiber-LED 10mm Fiber-Optic Cable Cap						
	1003741	Fiber-LED Reflective Material Sheet (23.62"W X 59.05"H)						
	1003742	Fiber-LED Reflective White Optic Sheet (Cut to size and sold by linear feet)						
POWER SUPPLIES FOR FLS FIBER LED								
	1003735	20W 700mA Low Volt Power Supply						
	1003736	20W 1000mA Low Volt Power Supply						
	1003737	25W 700mA Low Volt Power Supply						
	1003738	25W 1040mA Low Volt Power Supply						

Lumen Maintenance 70% @ 50,000 Hours (@350mA)

Max Junction Temperature 150°C

Certifications: RoHS Compliant; UL List for damp & wet locations

Fiber Length:

The usable length of fiber optic cable depends upon the application, color and driver current and will range up to 6 feet.

Power Supply:

Voltage varies depending upon current. The 4 power supplies listed range from 9V to 36V.

Fastening: Mechanical or Adhesive



Scan with a smartphone to view this product online.

Form No. S-FLSLED-0411: The specifications on this sheet supercede all previously published specifications and may be subject to change for design and specification improvement without prior notice.

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