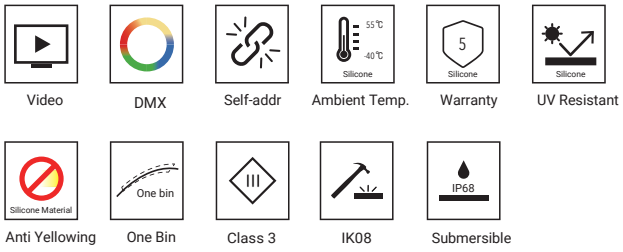
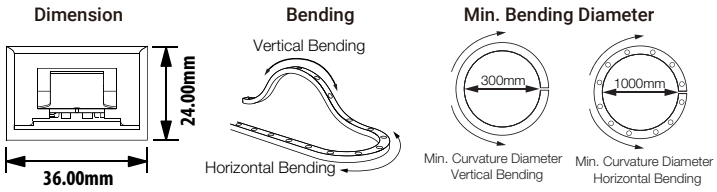
SFP40 Flexible LED Media Pixel Lighting

SFP40-24V-3535+2835-60+60-DMX4-RGBW



Description

3D-bendable high-performance video linear system, developed with world-class silicone co-extrusion and injection technology to achieve an IP68 protection rating. While traditional point-source pixels require extensive time for alignment, the SFP40 integrates luminous nodes within a continuous flexible body to ensure constant pixel geometry on complex facades. This system transforms grand architectural volumes into high-impact video canvases, delivering fluid motion and vibrant digital content on a massive scale.



Product Features

I. Supporting multi-directional flexibility, the SFP40 contours to complex 3D shapes while maintaining consistent pixel pitch across curved surfaces. The integrated node structure eliminates the need for manual alignment on-site.

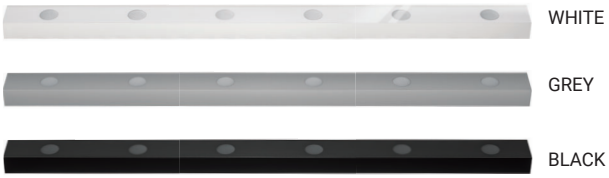
II. Supports advanced 16-bit processing (65,536 shades per color) via DMX512 for ultra-fine grayscale resolution and flicker-free video fluidity on large-scale facades.

III. Constructed using premium F1-rated gas-phase silicone with proprietary dual-color co-extrusion and injection molding. This ensures superior UV and yellowing resistance with an IP68 protection rating for extreme outdoor endurance.

IV. Available with multiple Pixel Pitch options (50mm or 100mm) and a choice of RGB, RGBW, or Mono lighting to meet diverse project requirements. Housing and Face finishes are offered in Black, White, or Grey for clean architectural integration.

V. The integrated structure significantly reduces installation complexity on grand architectural scales, providing an efficient solution for high-impact media facades.

Housing Finish Options



Lens Options

Technical Parameters

Electrical	
Input Voltage	24V DC
Power Consumption	20W/m (2W/pixel)
Physical	
LED Count	60+60 LEDs/m
Min. Unit	1 Set LEDs/ unit
Min. Unit Length	100 mm
Housing Material	F1-rated Gas-phase Silicone
Output	
LED Light	SMD LED 3535+2835
Color Options	RGB, RGBW (W:2200K~6500K), Mono
Working Mode	DMX(RS485)
Pixels Quantity	10 Pixels/m
IC Chips	UCS512
Max. Single Feed Length	10 M
Lumen Maintenance	70,000 Hours L70 @ 25°C 50,000 Hours L70 @ 50°C

Temperature Ranges	
Installation	0°C to 50°C
Operating	-40°C to 55°C
Dependability	
Warranty	5 Years Warranty
IP Rating	IP68
Video	
Grayscale Resolution	16-bit (65,536 levels per channel)
Pixel Pitch	100 mm
Pixel Density	10 Pixels per meter
Control Protocol	DMX512

Lighting OLYMPIA

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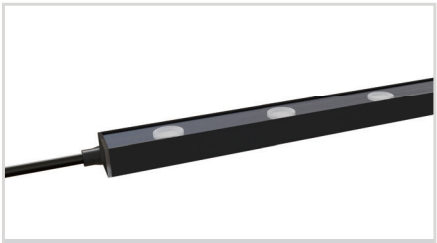
Model Encoding

SFP40-24V-3535+2835-60+60-DMX4-RGBW

- Product No.
- Input Voltage
- LED Type
- LED Quantity/Meter
- Work Mode
- Color

Mold Injection Connector

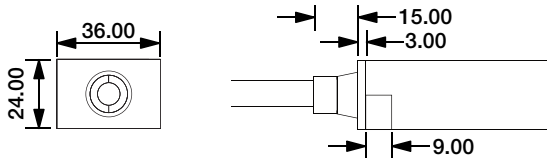


Direct Entry Connector

Direct Entry Connector

MJ-SFP40-D5-D02SM

MJ-SFP40-D5-D03SFM

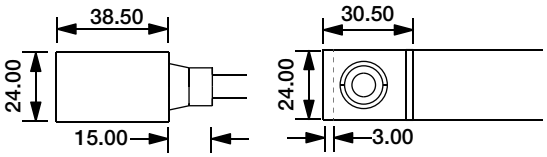


Side Entry Connector

Side Entry Connector

MJ-SFP40-D5-S02SM

MJ-SFP40-D5-S03SFM

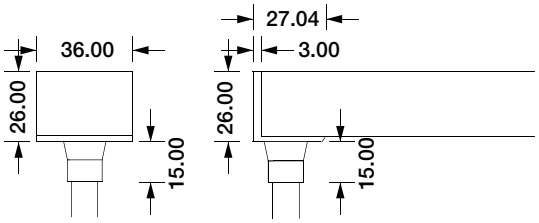


Bottom Entry Connector

Bottom Entry Connector

MJ-SFP40-D5-B02SM

MJ-SFP40-D5-B03SFM



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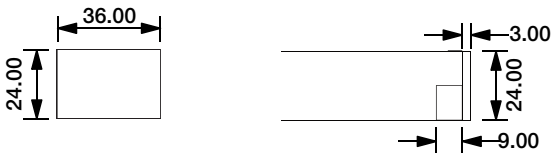
End Cap

End Cap

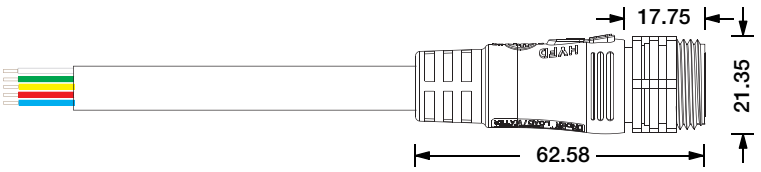


Accessories

Male Connector

Male Connector

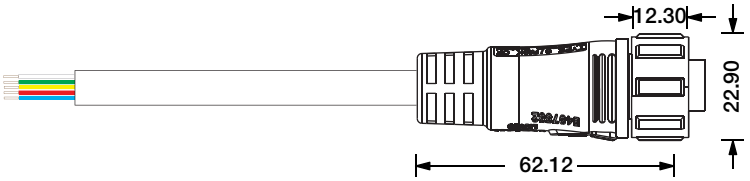
SQ19-M-5C-18AWG+24AWG-D8-B-0327-S



Female Connector

Female Connector

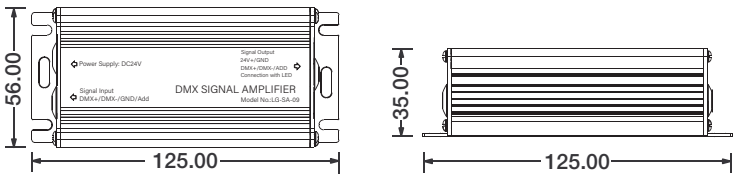
SQ19-F-5C-18AWG+24AWG-D8-B-0327-S



DMX Signal Amplifier

DMX Signal Amplifier

LG-SA-09-SQ19



Mounting Optionals

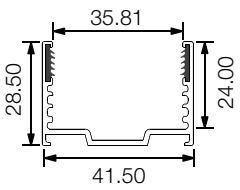
Alumimum Channel

Aluminum Channel

ALCSFP40S01-B-035 (35mm)

ALCSFP40S01-B-100 (1000mm)

ALCSFP40S01-B-200 (2000mm)



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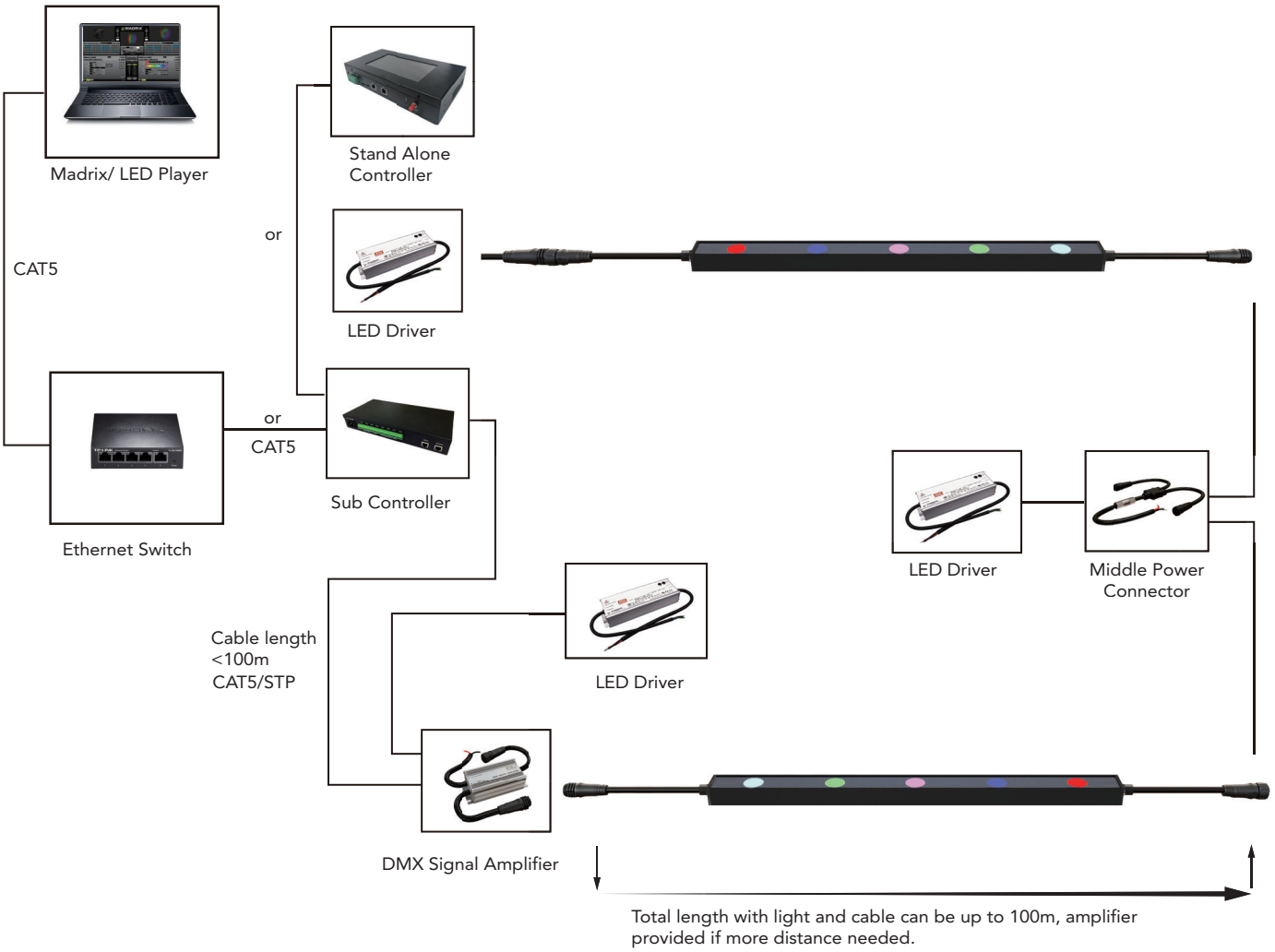
Connection