

Ambiveo™ Collection

RGB SPI Pixel LED Tape & Strip Light Specification Sheet



KEY HIGHLIGHTS

The RGB LED Pixel Strip is a high-precision, digitally addressable lighting solution that allows individual control of each LED pixel. This creates dynamic color effects, animations, and customized lighting patterns with seamless transitions by a SPI controller. It is ideal for creative lighting applications where programmable, high-resolution color effects are required. Its flexible PCB enables easy installation on both straight and curved surfaces.

SPECIFICATIONS

- 24VDC, 12VDC Optional.
- RGB SPI pixel.
- Maximum run on a given lead is 5 meters (16' -4") @12V and 10 meters (32'-8") @24V.
- IP20, IP54, IP65, IP67.
- 60 LEDs per meter.
- Every 6LEDs addressable (24V), every 3LEDs addressable (12V).
- Custom lengths available - factory customization.
- Compatible with solder-free connectors.
- Premium diodes 120° viewing angle.
- Dimmable.
- 3M adhesive back.



FEATURES

- ETL, CE, RoHS, CCC certified.
- CA Title 24: Compliant with approved drivers; consult factory for details.
- Operating Temperature: -20°C to 50°C (-4°F to 122°F)
- Storage Space Ready: Complies with NEC (NFPA 70) 410.16 requirements for closet installations.



WARRANTY

- 5-year coverage guaranteed when utilized with luzumi led approved power supply.

Note: The Warranty Period begins on the date of original shipment from our factory, the warranty covers product only and does not cover any labor or incidental charges related to service or warranty. This Warranty applies only to the original purchasers or authorized distributors.

HOW TO ORDER

Example: FR10W5050RGBSP60WH10E12

Name	Wattage/m	LED Type	Color	Control	LEDs/m	FPC Color	FPC Width(mm)	IP Rate	Voltage
FR	9W	5050	RGB	SP	60	WH	10	I (IP20)	12
	10W					BL	12	E (IP54)	24
	6W					BR		A (IP65)	
								B (IP67)	

HIGHLY RECOMMENDED EASY TO USE CONNECTORS

Part No.	Descriptions
CSR-XB3W-15	luzumi led solder-free tape to power connector
CSR-BXB3W-15	luzumi led solder-free tape to tape connector
CSR-BB3W	luzumi led tape to tape connector(no wire)

5-Step System Builder:

- Component 1: LED Tape & Strip Light
- Component 2: Connection Hardware
- Component 3: Aluminum Channels & Lenses (Optional)
- Component 4: Dimmers/Controllers(Optional)
- Component 5: Power Supplies



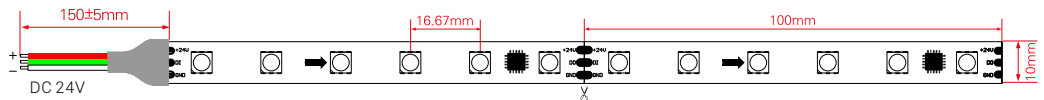
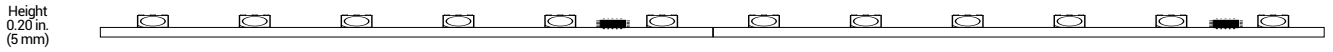
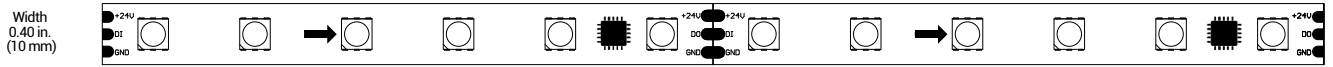
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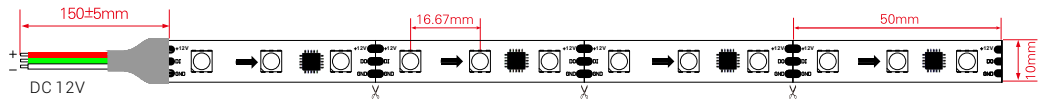
MECHANICAL DIAGRAMS



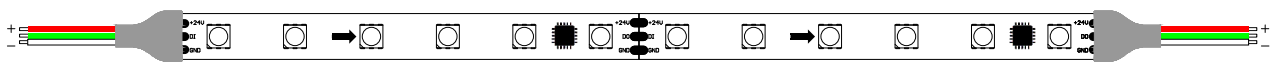
✂ Every 3/6LEDs



60LEDs/m 10mm width



CONNECTIONS WITHOUT USING CONNECTORS

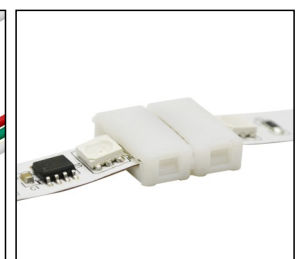
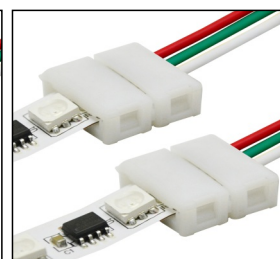
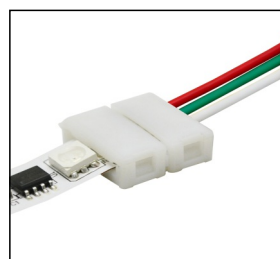
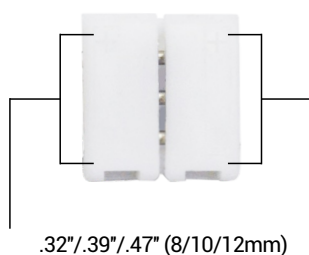
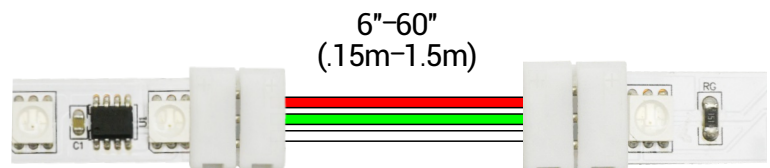
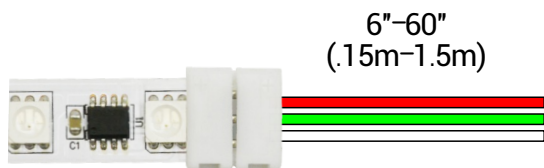


Bare Lead 20 AWG Wire with Strain Relief



Bare Lead 20 AWG Wire with Strain Relief

PAIRED WITH HIGHLY RECOMMEND SOLDER-FREE EASY TO USE CONNECTORS



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RECOMMENDED CHANNELS



SURFACE MOUNTING

Part No.	Description	Included Accessories	Diffusion Type	Connection Options	Length	Diagram (mm)
LCSM1708	Sleek, low-profile design engineered for seamless tape light integration.	Channel & frosted cover, 2x surface mounting clips per meter, End caps: 1x open, 1x closed.	Classic Frosted Lens, Dotless	Soldered Lead or Solder-free connector	1' to 8' (.3m -2.5m) Customizable	
LCSM0808	A master of subtlety, this minimal profile integrates seamlessly into any environment.	Channel & frosted cover, 2x surface mounting clips per meter, End caps: 1x open, 1x closed.	Classic Frosted Lens, Dotless	Soldered Lead only	1' to 8' (.3m -2.5m) Customizable	
LCSM1714	Engineered for structural rigidity, this robust profile adapts to diverse architectural requirements with multiple mounting configurations.	Channel & frosted cover, 2x surface mounting clips per meter, End caps: 1x open, 1x closed.	Classic Frosted Lens, Dotless	Soldered Lead or Solder-free connector	1' to 8' (.3m -2.5m) Customizable	
LCSM2011SQ	A timeless, low-profile silhouette engineered for universal tape light compatibility.	Channel & frosted cover, 2x surface mounting clips per meter, End caps: 1x open, 1x closed.	Classic Frosted Lens, Dotless	Soldered Lead or Solder-free connector	1' to 8' (.3m -2.5m) Customizable	
LCSM5035	A structural aluminum housing provides superior heat management and a wide, volumetric glow, perfect for high-end commercial and residential spaces.	Channel & frosted cover, 4x surface mounting clips per meter, End caps: 1x open, 1x closed. Pendant mounting kits available upon request.	Classic Frosted Lens, Dotless	Soldered Lead or Solder-free connector, Capable of housing multi-row LED Tape Light	1' to 8' (.3m -2.5m) Customizable	
LCSM1616SQ45	Precision-engineered angled profile designed for directed illumination.	Channel & frosted cover, 2x surface mounting clips per meter, End caps: 1x open, 1x closed.	Classic Frosted Lens, Dotless	Soldered Lead or Solder-free connector	1' to 8' (.3m -2.5m) Customizable	
LCSM1616ARC45	Elegant rounded geometry meets precision optics. This specialized corner channel transforms high-density tape lights into a continuous, ethereal ribbon of light with zero hotspots.	Channel & frosted cover, 2x surface mounting clips per meter, End caps: 1x open, 1x closed.	Classic Frosted Lens, Dotless	Soldered Lead or Solder-free connector	1' to 8' (.3m -2.5m) Customizable	

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RECOMMENDED CHANNELS



RECESSED MOUNTING

Part No.	Description	Included Accessories	Diffusion Type	Connection Options	Length	Diagram(mm)
LCR1714	A precision-engineered recessed profile designed for seamless integration within high-end millwork. This discrete housing allows the architecture to speak while providing a flawless, flush-mounted light source.	Channel & frosted cover, 2x surface mounting clips per meter, End caps: 1x open, 1x closed.	Classic Frosted Lens, Dotless	Soldered Lead or Solder-free connector	1' to 8' (.3m -2.5m) Customizable	
LCR3535	QUADRA 35 Structural Seamlessness Recessed Channel	Channel & frosted cover, 2x surface mounting clips per meter, End caps: 1x open, 1x closed.	Classic Frosted Lens, Dotless	Soldered Lead or Solder-free connector	1' to 8' (.3m -2.5m) Customizable	
LCR15050	LUZUMI™ MAXIMA 150 Recessed Channel, Commanding Scale. Infinite Light. Engineered for Grand Spaces.	Channel & frosted cover, 4x mounting clips per meter, End caps: 1x open, 1x closed.	Classic Frosted Lens, Dotless	Soldered Lead or Solder-free connector	1' to 8' (.3m -2.5m) Customizable	

MUD-IN

Part No.	Description	Included Accessories	Diffusion Type	Connection Options	Length	Diagram(mm)
LCMI5022-OS	Conner Mud In Channel with diffusing outside	Channel & frosted cover, 4x mounting clips per meter, End caps: 1x open, 1x closed.	Classic Frosted Lens, Dotless	Soldered Lead or Solder-free connector	1' to 8' (.3m -2.5m) Customizable	
LCMI5022-IS	Conner Mud In Channel with diffusing inside	Channel & frosted cover, 4x mounting clips per meter, End caps: 1x open, 1x closed.	Classic Frosted Lens, Dotless	Soldered Lead or Solder-free connector	1' to 8' (.3m -2.5m) Customizable	