

AMERICAN LIGHTING

LED 4Wire (Rectangular Flexbrite)
LED 4WR Series

DESCRIPTION

The LED 4-Wire is a linear lighting tool that provides up to 85% energy savings over conventional linear lighting products while allowing longer runs. The rectangular-shaped profile houses three parallel rows of LEDs that deliver a diffuse and even distribution of light, available in Warm White, Cool White and color-changing versions. Applications include cove lighting, in-cabinet accent, over cabinet accent, stair safety and backlighting (to create glowing surfaces). Long-life LEDs save in maintenance costs typically associated with incandescent lighting products and operate cool to the touch to provide a safe alternative to heat-generating linear lighting products. Both 24-volt and 120-volt types are available.



SPECIFICATIONS

Dimensions:

7/16" high by 7/8" wide
(11 mm x 23 mm)

Bulk Reel:

291.6 feet (90 meters)

Cuttability:

120-volt is cuttable every 39.4" (1 meter)

24-volt is cuttable every 6.5" (16.7 cm)

Note: The LED 4-Wire is wired in series parallel fashion with every 6.5" (for 24-volt) or 39.4" (for 120-volt) comprising a series. Cutting should be done only on the cutting mark indicated on the side of the rectangular housing. Cutting between marks will still result in a loss of a 6.5" (for 24-volt) or 39.4" (for 120-volt) section of light, total.

Colors:

RGB = Color-changing of parallel rows of Red, Green and Blue

WW = Warm White 4-Wire contains three parallel rows of 4000°K LEDs

CW = Cool White 4-Wire contains three parallel rows of 6400°K LEDs

Mounting:

Easily installed with clips (approximately one per foot) or, for straight-line installations, in plastic track. The track can be cut in the field with tin snips and should be attached to the mounting surface with mounting screws (not included). Drill holes through the back of the track with an appropriately sized drill bit. When using mounting clips, hold the 4-Wire in place and screw down each side of the clip, straddling the light.

ELECTRICAL

Voltage:

24-volt and 120-volt versions are available

Direct Wire:

Only the 24-volt version can be hardwired (please see power connection ordering chart next page). A 24-volt power supply (sold separately) is required.

Portable:

120-volt type LED 4-Wire is designed for plug-in (portable) installations only. See Power Connection Ordering Chart, next page, for necessary power connection components.

Switching:

Use a switched outlet or switched circuit to control On/Off functions.

Dimming:

The LED 4-Wire is not dimmable at this time.

LED Specs:

Size/Electrical: Each 3 mm LED

WW and CW: .067 watt, 1.11V, 60mA

Red: 0.05 watt, 2.5V, 20mA

Green: 0.07 watt, 3.5V, 20mA

Blue: 0.05 watt, 3.5V, 20mA

Color Rendering Index (CRI): 80 for CW
73 for WW

Beam angle: 120°

Orientation: Zenith (all oriented vertically inside PVC)

Power Consumption:

2.22 watts per foot for CW and WW

Energy consumption varies for RGB (up to 2.22 watts per foot, maximum)

Maximum Run:

Please see Power Connection Ordering Chart on following page.

See next page for ordering information

DATE: _____ TYPE: _____
FIRM NAME: _____
PROJECT: _____

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ORDERING INFORMATION

LED-4WR

LED-4WR Series
CW = Cool White (6400°K), 120V
WW = Warm White (4000°K), 120V
RGB = Color-changing, 120V
CW-24 = Cool White (6400°K), 24V
WW-24 = Warm White (4000°K), 24V
RGB-24 = Color-changing, 24V

See chart below for required power supply components.

NOTE:

120V LED 4-Wire must be ordered in multiples of 3.25 feet
 24V LED 4-Wire must be ordered in multiples of .54 foot

ACCESSORY INFORMATION

PWR = Power connector for live end of rope, includes 3" section of clear series shrink tube
END = Clear end cap with tension fit
CLIP = Clear saddle clip, mounting screws included, multiples of 10 only
EC10 = Ten foot white extension from LED 4-Wire to controller, **requires one LED-4WR-PWR**
INVSPL = Splicing power connector for connecting two pieces of rope together, includes 3" piece of clear shrink tube
JUMP = Jumper extension kit for connecting two pieces of LED 4-Wire together with three feet of white, 18 AWG, 4C cord between, includes two LED-4WR-PWR
JUMP10 = Jumper extension kit for connecting two pieces of LED 4-Wire together with ten feet of white, 18 AWG, 4C cord between, includes two LED-4WR-PWR
JUMP20 = Jumper extension kit for connecting two pieces of LED 4-Wire together with twenty feet of white, 18 AWG, 4C cord between, includes two LED-4WR-PWR
LED-4WR-TRACK = Clear mounting track for straight-line installations, 4-foot length, cuttable

REQUIRED POWER SUPPLY COMPONENTS

LED-4WIRE	POWER CORD	POWER CONNECTOR	END CAP	CONTROLLER	MAX RUN
LED-4WR-CW or LED-4WR-WW	LED-4WR-CONKIT 1.6AMP	included	included	n/a	84.5 feet
	LED-4WR-CONKIT	included	included	n/a	200 feet
	LED-4WR-CONKIT 10AMP	included	included	n/a	539.5 feet
	n/a	LED-4WR-PWR	LED-4WR-END	LED-4WR-50CTRL	52 feet
LED-4WR RGB	n/a	LED-4WR-PWR	LED-4WR-END	LED-4WR-3S-5/30-120	159.25 feet
	n/a	LED-4WR-PWR	LED-4WR-END	LED-4WR-6-1/10-120	325 feet
	n/a	LED-4WR-PWR	LED-4WR-END	LED-4WR-490CTRL	519 feet
	n/a	LED-4WR-PWR	LED-4WR-END	LED-4WR-490CTRL	519 feet
LED-4WR CW/WW-24	LED-4WR-CONKIT-NP	included	included	n/a	17.28 feet
	LED-4WR-CONKIT-NP	included	included	n/a	17.28 feet
LED-4WR RGB-24	na	LED-4WR-PWR	LED-4WR-END	LED-4WR-3S-1/10-24	17.28 feet

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POWER CONNECTION SPECIFICATIONS

ITEM NUMBER	DESCRIPTION	POWER CORD	LEAD WIRE	DIMENSIONS OF CONTROLLER
LED-4WR-CONKIT-1.6AMP	120V Power Cord Kit with 1.6A Inverter	36", 18AWG, 2C White	33", 18AWG, 2C White	3-3/4"L x 15/16 dia.*
LED-4WR-CONKIT	120V Power Cord Kit with 4A Inverter	36", 18AWG, 2C White	33", 18AWG, 2C White	3-3/4"L x 1-1/8"W x 1-1/2"H*
LED-4WR-CONKIT-10AMP	120V Power Cord Kit with 10A Inverter	36", 18AWG, 2C Black	37", 18AWG, 2C White	3-3/4"L x 2"W x 2-1/4"H*
LED-4WR-CONKIT-NP	24V Power Cord Kit 1.6A, no plug	30", 18AWG, 2C White	30", 18AWG, 2C White	3-3/4"L x 1-3/8"W x 1-1/2"H*
LED-4WR-CONKIT-4-NP	24V Power Cord Kit 4A, no plug	30", 18AWG, 2C White	30", 18AWG, 2C White	3-3/4"L x 1-3/8"W x 1-1/2"H*
LED-4WR-50CTRL	120V 1.6A Controller with 8 demo funtions	36", 18AWG, 2C White	70", 18AWG, 2C White	3-1/8"L x 2"W x 1-3/8"H
LED-4WR-3S-5/30-120	120V 3A Controller with speed control and color "select" switch	68" 18AWG, SPT-1, 2C, Black	70", 18AWG, 2C White	3-5/8"L x 3-7/8"W x 1-1/2"H
LED-4WR-6-1/10-120	120V 6A Controller with speed control	72", 18AWG, 3C Black (ground plug)	70", 18AWG, 2C White	3-1/8"L x 3-7/8"W x 2-1/2"H
LED-4WR-490CTRL	120V, 12A DMX Controller	58", 18AWG, 2C Black	40", 18AWG, 4C White	9-1/4"L x 5-3/4"W x 4-1/2"H
LED-4WR-3S-1/10-24	24V 3A Controller with speed control and color "select" switch	Two 4-1/2" 22 guage bare leads black	70", 18AWG, 4C White	3-5/8"L x 3-7/8"W x 1-1/2"H

* For all power cord kits, dimensions given are for the inverter, not a controller.