

RIBBON

LED Lights | 2007-08



**FUTURA
LIGHTING**

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FLAT LIGHT RIBBON

Applications

Edge-lighting of transparent or diffused materials

Path & contour marking

Illuminated signs



SMD Light Ribbon (Single color)



RGB 10mm(RGB tri-color-A)

Basic Technical Data

Standard length: 5 meters/reel (16.25 feet)

Ribbon width: single color 8mm (.31 inches), RGB tri-color 10mm (.39 inches)

Printed circuit board thickness: single color 0.25mm (.009 inches)

RGB tri-color 0.2mm (.007 inches)

Working voltage: 12V DC

Working current: single color 2A, RGB tri-color 3A

Entire ribbon LED quantity: single color 300 pcs, RGB tri-color 150pcs

Size of smallest unit 3 LED (L X W): single color 50mm X 8mm (1.96 in X .31 in)

RGB tri-color 100mm X 10mm (3.9 in X .39 in)

Color	Part Number	LED Q'ty	Luminous flux (lm)		Viewing Angle	Voltage (V)	Current (mA)
			Min.	Typ.	± 2 1/2		
Red	FL-RBL-RD	30	22	27	120	12	170-200
Yellow	FL-RBL-YL	30	22	27	120	12	170-200
Blue	FL-RBL-BL	30	14.5	18	120	12	170-200
Green	FL-RBL-GR	30	38	48	120	12	170-200
White	FL-RBL-W	30	42	53	120	12	170-200
Purple	FL-RBL-PU	30	2.5	3.5	120	12	170-200
RGB	FL-RBL-RGB	15	10.5	13	100	12	85-100
			18.5	23.5			85-100
			7	8.5			85-100

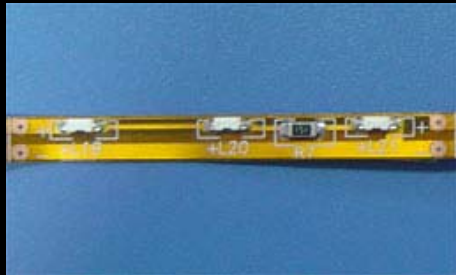
SIDEVIEW LIGHT RIBBON

Benefits

Linear separable LED strip on flexible printed circuit board with self-adhesive back

Can be divided into units of 3 LEDs or multiples thereof with no loss of function for the parts.

Available colors: red, green, blue, amber, white, etc.



Applications

Illuminated advertising etc.

Basic Technical Data

Standard length: 5 meters/reel (16.25 ft)

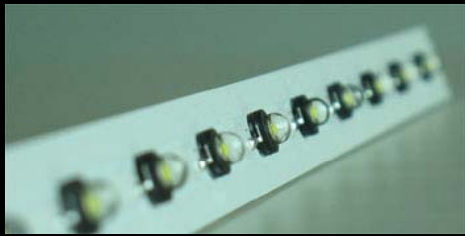
Ribbon width: 5mm (.19 in)

Working voltage: 12V DC

Working current: 170-200mA

Entire ribbon LED Q'ty: 30pcs/0.5 meters (19.68 in)

Color	Part Number	LED Q'ty	Luminous flux (lm)		Viewing Angle	Voltage (V)	Current (mA)
			Min.	Typ.	± 2 1/2		
Red	SI-RBL-RD	30	22	27	120	12	170-200
Yellow	SI-RBL-YL	30	22	27	120	12	170-200
Blue	SI-RBL-BL	30	14.5	18	120	12	170-200
Green	SI-RBL-GR	30	38	48	120	12	170-200
White	SI-RBL-W	30	42	53	120	12	170-200
Purple	SI-RBL-PU	30	2.5	3.5	120	12	170-200



1W HIGH POWER LIGHT BAR

Benefits

"NEW"

Available in red, green, blue, yellow, white

Wide viewing angle 140 degrees

Applications

Indoor use for decoration



Basic Technical Data

Standard length: 0.57 meters/12 LEDs (22.5 in.)

Size (L X W): 570 X 20mm (22.35 in. X .78 in.)

Working current: constant 350mA

Input Voltage: 85-265V AC

"NEW"

Color	Part Number	LED Q'ty	Luminous flux (lm)		Viewing Angle 2 1/2	Voltage (V)	Current (mA)
			Min.	Typ.			
Red	FL-BAR-RD	12	282	478	140	24-32	350
Yellow	FL-BAR-YL	12	216	368	140	24-32	350
Blue	FL-BAR-BL	12	98	140	140	24-32	350
Green	FL-BAR-GR	12	477	806	140	24-32	350
White	FL-BAR-W	12	367	806	140	24-32	350



SMD WATERPROOF LIGHT STRIP

Benefits

"NEW"

Wide angle SMD LED used, making the light output smooth and even

Available colors: red, green, blue, yellow, white

Totally waterproof

Maintenance free, easy installation

Low power consumption, high intensity

Applications

Construction decorative lighting

Archway, canopy and bridge edge lighting

Amusement park, theater and aircraft cabin mood lighting

Emergency hallway lighting



Basic Technical Data

Standard length: 0.5 meters (19.68 in)/24 LEDs

Size(LXWXH): 500X10X2.4mm (19.6inX.39inX.008in)

"NEW"

Color	Part Number	LED Q'ty	Luminous flux (lm)		Viewing Angle 2 1/2	Voltage (V)	Current (mA)
			Min.	Typ.			
Red	FL-STRIP-RD	24	35	40	120	12	130-160
Yellow	FL-STRIP-YL	24	35	40	120	12	130-160
Blue	FL-STRIP-BL	24	20	24	120	12	130-160
Green	FL-STRIP-GR	24	38	48	120	12	130-160
White	FL-STRIP-W	24	44	55	120	12	130-160

SHORT LIGHT BAR

Benefits

Available in 1-LED, 2-LED, 3-LED, 4-LED, 5-LED, 6-LED versions

Available in Red, Green, Blue, White, Amber, RGB tri-color, etc

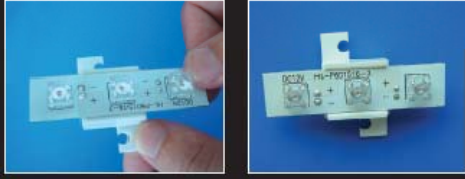
Runs on 12-Volt Systems like solar cell charged batteries

With connecting wire and mounting brackets for trouble-free installation

Major Reduction in Power Costs - Wide Angle or Spot Illumination

High Intensity, Low Heat Generation - Long Life, Maintenance Free

No RF Interference



Applications

Concealed Lighting

Backlighting for Signage Letters

Channel Letter Lighting

Emergency Exit Path Lighting

Automotive tail light, braking light and back-view mirror light.



Basic Technical Data

Printed circuit board thickness: 1.7mm (.067in)

Working voltage: 12V DC

Working current: 1-LED to 3-LED version 20mA, 4-LED to 6-LED version 40mA

Size (L X W): 40 x 15mm (1.57in X .59in) (2-LED), 60 x 15mm (2.36in X .59in) (3-LED)

80 x 15mm (3.14in X .59in) (4-LED), 90 x 15mm (3.54in X .59in) (5-LED)

156 x 15mm (6.09in X .59in) (6-LED)

Color	Part Number	LED Q'ty	Luminous flux (lm)		Viewing Angle	Voltage (V)	Current (mA)
			Min.	Typ.	2 1/2		
Red	FL-3SHORT-RD	3	2.2	2.7	75	12	17-20
Yellow	FL-3SHORT-YL	3	2.2	2.7	75	12	17-20
Blue	FL-3SHORT-BL	3	1.5	1.8	75	12	17-20
Green	FL-3SHORT-GR	3	3.8	4.8	75	12	17-20
White	FL-3SHORT-W	3	4.2	5.3	75	12	17-20
Red	FL-5SHORT-RD	5	3.6	4.5	75	12	34-40
Yellow	FL-5SHORT-YL	5	3.6	4.5	75	12	34-40
Blue	FL-5SHORT-BL	5	2.4	3	75	12	34-40
Green	FL-5SHORT-GR	5	6.4	8	75	12	34-40
White	FL-5SHORT-W	5	7	8.7	75	12	34-40
RGB	FL-3SHORT-RGB	3	0.7	0.9	65	12	17-20
			1.2	1.6	65		17-20
			0.48	0.6	65		17-20

SMD LIGHT BAR

Benefits

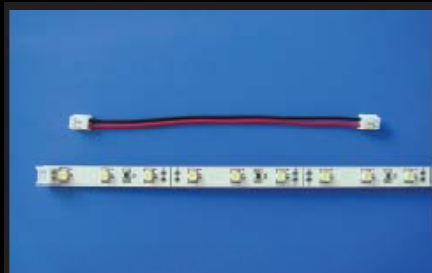
Easy connection, detachable every 3 LEDs. The detachable point is marked by a black line on the PCB. After cutting, both parts can still work independently under 12v DC power and can be joined together by wires and snap-in connectors. Only parallel connection is allowed. Easily can be connected by cable connector in series end by end. Available colors: red, green, blue, amber, white, RGB tri-color, etc

Applications

Edge-lighting of transparent or diffused materials
 Path & Contour Marking - Emergency/Rescue Signs
 To couple light into transparent or diffused glass

Basic Technical Data

Harmonious light with wide viewing angle 100~120 degrees
 Interconnecting wire length: 100mm (3.9in)
 Size of the smallest separable 3-LED unit (L x W) 46 x 8mm (1.81in X .31in) (single color)
 56 x 8mm (2.20in X .31in) (RGB tri-color)
 Size of the whole strip (LxWxH): 480 x 8 x 6.5mm (18.84in X .31in X .25in)(single color)
 570 x 8 x 6.5mm (22.35in X .31in X .25in) (RGB tri-color)

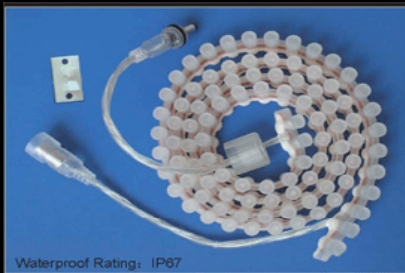


SMD Light Bar (Single color)



SMD Light Bar (RGB tri-color)

Color	Part Number	LED Q'ty	Luminous flux (lm)		Viewing Angle	Voltage (V)	Current (mA)
			Min.	Typ.	2 1/2		
Red	FL-SMD-RD	30	22	27	120	12	170-200
Yellow	FL-SMD-YL	30	22	27	120	12	170-200
Blue	FL-SMD-BL	30	14.5	18	120	12	170-200
Green	FL-SMD-GR	30	38	48	120	12	170-200
White	FL-SMD-W	30	42	53	120	12	170-200
RGB	FL-SMD-RGB	30	21	26	100	12	170-200
			37	47			170-200
			14	17			170-200



PEARL WATERPROOF LIGHT STRIP

Benefits

“NEW”

With Through-hole LED.

Available colors: red, green, blue, yellow, white

Totally waterproof

Maintenance free, easy installation

Low power consumption, high intensity

Applications

Stairway accent lighting

Concealed lighting

Backlighting for signage letters

Channel letter lighting

Basic Technical Data

Standard length: 0.96 meters (39 in.)/ 96 LEDs

Working voltage: 12V DC

Working current: 600-640mA

Color	Part Number	LED Q'ty	Luminous flux (lm)		Viewing Angle	Voltage (V)	Current (mA)
			Min.	Typ.	2 1/2		
Red	FL-HOLE-RD	96	165	195	100	12	600-640
Yellow	FL-HOLE-YL	96	155	185	100	12	600-640
Blue	FL-HOLE-BL	96	95	125	100	12	600-640
Green	FL-HOLE-GR	96	225	255	100	12	600-640
White	FL-HOLE-W	96	315	345	100	12	600-640

WATERPROOF LIGHT BAR

Benefits

Available in full range of single colors and RGB full color

Available in different lengths 0.4m (15.78in), 0.5m (19.68in), 0.8m (31.49in)

1m (39.37in) single color and 0.3m (11.81in), 0.78m (31.02in) RGB full of color

Various choices for viewing angles from 40-120 degrees

Low input voltage 12V DC

Totally waterproof



Applications

Backlighting for larger size ad-signs

Elegant interior decoration

Nice accent lighting lamps

Landscape outlines, etc.

Signal lighting

Basic Technical Data

Working voltage: 12V DC

Working current: 100 ~180mA (0.4m, 25-LED),

120~ 200mA (0.53m, 30-LED)

240mA~400mA (1m, 60-LED)

Color	Part Number	LED Q'ty	Luminous flux (lm)		Viewing Angle	Voltage (V)	Current (mA)
			Min.	Typ.	2 1/2		
Red	FL-25WATER-RD	25	18	23	75	12	150-180
Yellow	FL-25WATER-YL	25	18	23	75	12	150-180
Blue	FL-25WATER-BL	25	12	15	75	12	150-180
Green	FL-25WATER-GR	25	32	40	75	12	150-180
White	FL-25WATER-W	25	35	44	75	12	150-180
Red	FL-30WATER-RD	30	22	27	75	12	170-200
Yellow	FL-30WATER-YL	30	22	27	75	12	170-200
Blue	FL-30WATER-BL	30	14.5	18	75	12	170-200
Green	FL-30WATER-GR	30	38	48	75	12	170-200
White	FL-30WATER-W	30	42	53	75	12	170-200
Red	FL-60WATER-RD	60	43	54	75	12	340-400
Yellow	FL-60WATER-YL	60	43	54	75	12	340-400
Blue	FL-60WATER-BL	60	29	36	75	12	340-400
Green	FL-60WATER-GR	60	77	96	75	12	340-400
White	FL-60WATER-W	60	84	105	75	12	340-400
RGB	FL-20WATER-RGB	20	14	18	100	5	340-400
			25	32	100		340-400
			9.6	12	100		340-400

WATERPROOF MODULES FOR SIGNS (ALUMINUM, PLASTIC)

Benefits

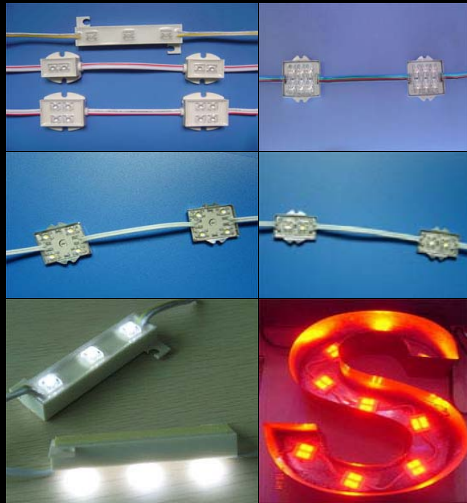
- Available in 2-LED and 3-LED & 4-LED version
- With mounting holes for easy mounting
- Low voltage, energy efficient, virtually no maintenance
- Low heat, high brightness, works well under harsh conditions
- Full range of colors: red, yellow, blue, green, white, etc
- Input voltage: 12V DC, professionally designed to be fully waterproof

Application

- Slim design for narrow and compact LED signages.
- Waterproof for outdoor advertising signs, channel-letter, effective contouring, outdoor waterproof LED lighting projects, etc.

Basic Technical Data

- Module thickness:
 12.5mm (.49in) (2 & 4-LED PVC Module) 8mm (.31in) (3-LED PVC Module)
 6.5mm (.25in) (2-LED Alu-base Module) 10.5mm (.41in) (4-LED Alu-base Module)
- Working voltage: 12V DC
- Working current: 2-LED version 20~25mA 3-LED version 25~30mA
 4-LED version 34~44mA
- LED Size (L X W): 2-LED PVC Module 25 x 16mm (.98in X .62in)
 3-LED PVC Module 74 x 16.5mm (2.91in X .64in)
 4-LED PVC Module 30 x 23mm (1.18in X .90in)
 2-LED Alu-base Module 35x22mm (1.37in X .86in)
 4-LED Alu-base Module 37 x 37mm (1.45in X 1.45in)



Color	Part Number	LED Q'ty	Luminous flux (lm)		Viewing Angle 2 1/2	Voltage (V)	Current (mA)
			Min.	Typ.			
PLASTIC LED MOUDLE							
Red	FL-3SIGNS-RD	3	2	3	100	12	25-30
Yellow	FL-3SIGNS-YL	3	2	3	100	12	25-30
Blue	FL-3SIGNS-BL	3	1.5	1.8	100	12	20-25
Green	FL-3SIGNS-GR	3	4	5	100	12	20-25
White	FL-3SIGNS-W	3	4	5	100	12	25-30
Red	FL-4SIGNS-RD	4	2.8	3.6	75	12	34-40
Yellow	FL-4SIGNS-YL	4	2.8	3.6	75	12	34-41
Blue	FL-4SIGNS-BL	4	2	2.4	75	12	34-42
Green	FL-4SIGNS-GR	4	5.2	6.4	75	12	34-43
White	FL-4SIGNS-W	4	6	7	75	12	34-44
ALUMINUM LED MOUDLE							
Red	FL-2ALUSIGNS-RD	2	1.4	1.8	120	12	17-20
Yellow	FL-2ALUSIGNS-YL	2	1.4	1.8	120	12	17-20
Blue	FL-2ALUSIGNS-BL	2	1	1.2	120	12	17-20
Green	FL-2ALUSIGNS-GR	2	2.6	3.2	120	12	17-20
White	FL-2ALUSIGNS-W	2	3	3.5	120	12	17-20
Red	FL-4ALUSIGNS-RD	4	2.8	3.6	120	12	34-40
Yellow	FL-4ALUSIGNS-YL	4	2.8	3.6	120	12	34-40
Blue	FL-4ALUSIGNS-BL	4	2	2.4	120	12	34-40
Green	FL-4ALUSIGNS-GR	4	5.2	6.4	120	12	34-40
White	FL-4ALUSIGNS-W	4	6	7	120	12	34-40
RGB	FL-2ALUSIGNS-RGB	2	1.4	1.8	100	12	17-20
		2	2.5	3.2			17-20
		2	0.9	1.2			17-20



WATERPROOF WALLWASHER

Benefits

Matched with constant current transformer inside tube,
available in AC110-240V
available in Red, Green, Blue, Yellow, White

Applications

Architectural decorative lighting
Archway, canopy & bridge edge lighting

Basic Technical Data

Standard length: 0.6 meters/12 LEDs (23.62 in)
Size (L X W): 600 X 76.5 X 75.8mm (23.6 in. X 3 in. X 2.98 in.)

Color	Part Number	LED Q'ty	Luminous flux (lm)		Viewing Angle	Voltage (V)	Current (mA)
			Min.	Typ.	2 1/2		
Red	FL-WALL-RD	12	282	478	144	85-265	350
Yellow	FL-WALL-YL	12	216	368	144	85-266	350
Blue	FL-WALL-BL	12	98	140	144	85-267	350
Green	FL-WALL-GR	12	477	806	144	85-268	350
White	FL-WALL-W	12	367	806	144	85-269	350



RIGID FLEX LIGHT STRIP

Benefits

Easy connection, detachable every 3 LEDs.
Various choices for viewing angles from 45-120 degrees
Available colors: red, green, blue, yellow, white, etc.

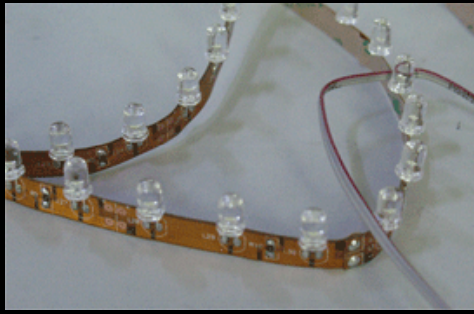
Applications

Channel-letter backlights, signboard, sign and decoration, etc

Basic Technical Data

Standard length: 0.3 meters (11.81 in)/18 LEDs
Size (L X W): 300 X 8mm (11.8in X .31in)
Working voltage: 12V DC

Color	Part Number	LED Q'ty	Luminous flux (lm)		Viewing Angle	Voltage (V)	Current (mA)
			Min.	Typ.	2 1/2		
Red	FL-ROCK-RD	18	13.2	16.2	100	12	102-120
Yellow	FL-ROCK-YL	18	13.2	16.2	100	12	102-120
Blue	FL-ROCK-BL	18	8.7	10.8	100	12	102-120
Green	FL-ROCK-GR	18	22.8	28.8	100	12	102-120
White	FL-ROCK-W	18	25.2	31.8	100	12	102-120



FLEX LIGHT STRIP

Benefits

Linear separable LED strip on flexible printed circuit board with self-adhesive back, 3 LEDs a group..
 Various choices for viewing angles from 45-120 degrees
 Available colors: red, green, blue, yellow, white, etc.

Applications

Channel-letter backlights, signboard, sign and decoration, etc

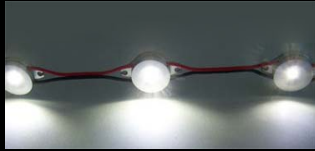


Basic Technical Data

Standard length: 0.5meters (19.68 in.)/ 30 LEDs
 Size (L X W): 500 X 8mm (119.6in X .31in)
 Working voltage: 12V DC
 Working current: 170-200mA

Color	Part Number	LED Q'ty	Luminous flux (lm)		Viewing Angle 2 1/2	Voltage (V)	Current (mA)
			Min.	Typ.			
Red	FL-HORSE-RD	30	22	27	20	12	170-200
Yellow	FL-HORSE-YL	30	22	27	20	12	170-200
Blue	FL-HORSE-BL	30	14.5	18	20	12	170-200
Green	FL-HORSE-GR	30	38	48	20	12	170-200
White	FL-HORSE-W	30	42	53	20	12	170-200
Purple	FL-HORSE-PU	30	2.5	3.5	20	12	170-200

WATERPROOF 1W HIGH POWER LED MODULES



Benefits

"NEW"
 With 1W High Power LED
 Available in red, green, blue, white
 Constant voltage: DC12V
 It is fully waterproof, IP67



"NEW"

Applications

Architectural decorative lighting
 Channel letter lighting
 Backlighting for signage letters

Basic Technical Data

Size (L X H): $\Phi 40$ X 8.8mm (.34 in.) (1pcs Module)
 Working current: constant 330mA
 Working voltage: constant 12V DC

Color	Part Number	LED Q'ty	Luminous flux (lm)		Viewing Angle 2 1/2	Voltage (V)	Current (mA)
			Min.	Typ.			
Red	FL-MOD-RD	1	23.5	39.8	120	12	330
Yellow	FL-MOD-YL	1	18	30.6	120	12	330
Blue	FL-MOD-BL	1	4.9	6.3	120	12	330
Green	FL-MOD-GR	1	39.8	67.2	120	12	330
White	FL-MOD-W	1	30.6	67.2	120	12	330
Warm	FL-MOD-WW	1	30.6	67.2	120	12	330

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