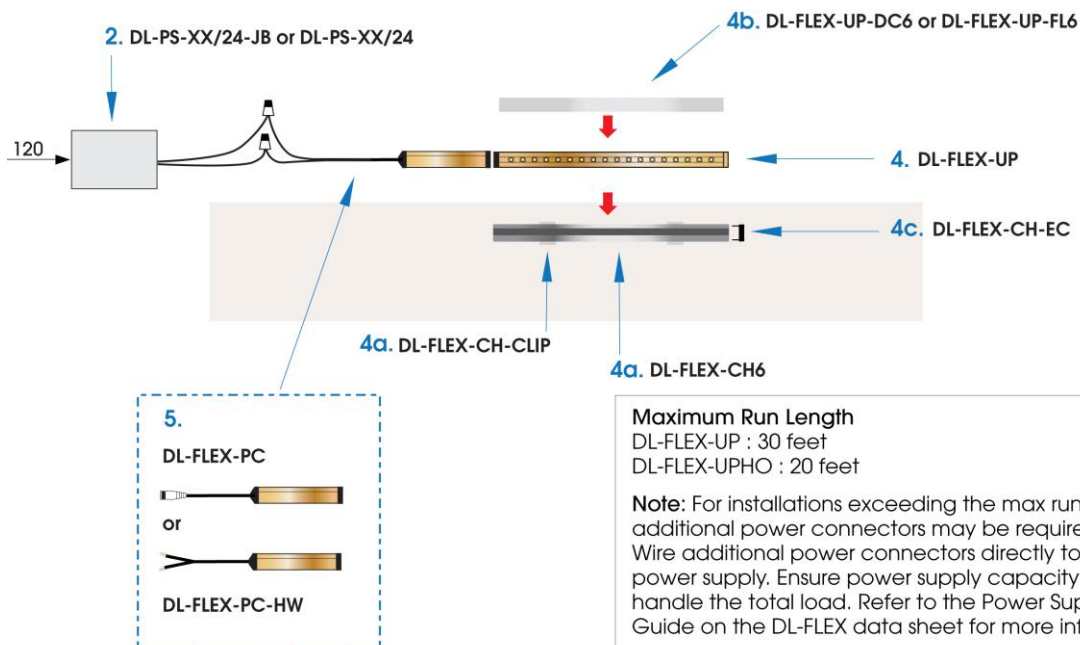


INSTALLATION INSTRUCTIONS

DL-FLEX-UP / DL-FLEX-UPHO



1. Configure design and layout of the system before attempting to install this product.
Note – For dimming applications refer to the Dimming Solution data sheet for more information.
2. **Install the power supply**
Determine location of the power supply or junction box.
3. **Assemble DL-FLEX**
Connect DL-FLEX strips together by joining the ends together. Do not exceed the maximum run length. DL-FLEX may be cut only on the cutting mark indicated on the tape.
4. **Install DL-FLEX**
Remove backing to expose adhesive. Carefully press DL-FLEX to the mounting surface. For best results, ensure the mounting surface is clean (See Application Techniques for Adhesive tape). Avoid using excessive force. Avoid pinching or creating a sharp 90 deg bend. Only bend the DL-FLEX in-between LEDs.
- 4a. **Optional – Install Aluminum Channel (DL-FLEX-CH6, field-cuttable)**
Install the mounting clips (DL-FLEX-CH-CLIP) to the mounting surface. Recommended use of 1 clip per 24 inches. Insert aluminum track into the clips. Remove backing to expose adhesive. Carefully press DL-FLEX into the aluminum channel. Avoid using excessive force.
- 4b. **Optional – Install Aluminum Channel Cover (DL-FLEX-DC6 or DL-FLEX-FL6)**
After inserting the DL-FLEX align the channel cover with the aluminum channel. Carefully press the cover into the aluminum channel. The cover will snap into place. Do not use excessive force.
- 4c. **Optional – Insert Aluminum Channel End Cap (DL-FLEX-CH-EC) for finished look.**
5. **Install Power Connector**
Insert the power connector (DL-FLEX-PC) into the female connector. Ensure correct face of the power connector is inserted into the DL-FLEX tape. The polarity of the power connector and FLEX tape must match (positive to positive, negative to negative). For hard wire installations use DL-FLEX-PC-HW.
6. **Connect Power Supply**
Using the DL-FLEX-PC, plug into the power supply. If using DL-FLEX-PC-HW, connect the bare wires to the output wires located within the junction box. Ensure the wires are connected correctly by observing the polarity (positive to positive, negative to negative).
7. **Run System**
Turn the power on. Check all fixtures to make sure they are running properly. If fixtures are not running properly, check all connections and retighten.



INSTALLATION INSTRUCTIONS

DL-FLEX-UP / DL-FLEX-UPHO



Application Techniques for Adhesive tape

Note: The 3M 200MP adhesive will not readily adhere to substrates categorized as having low surface energy.

For maximum bond strength (during installation of the final part) the surface should be thoroughly cleaned and dried. Typical cleaning solvents are heptane* (for oily surfaces) or isopropyl alcohol* for plastics. Use reagent grade solvents since common household materials like rubbing alcohol frequently contain oils to minimize the drying affect on skin and can interfere with the performance of a pressure-sensitive adhesive.

***Note:** Carefully read and follow the manufacturer's precautions and directions for use when working with solvents. These cleaning recommendations may not be in compliance with the rules of certain air quality management districts in California; consult applicable rules before use.

It is necessary to provide pressure during lamination (1.5-20 pli recommended) and during final part installation (10-15 psi) to allow the adhesive to come into direct contact with the substrate.

The ideal adhesive application temperature range is 60°F (15.6°C) to 100°F (38°C). Application is not recommended if the surface temperature is below 50°F (10°C) because the adhesive becomes too firm to adhere readily. Once properly applied, at the recommended application temperature, low temperature holding is generally satisfactory.

SAVE THESE INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

When installing or using DL-FLEX tape light, basic safety precautions should always be followed including the following:

1. Read all instructions before attempting to install this product.
2. Ensure main power is off before installing or wiring this product.
3. Ensure correct voltage is being used for this product.
4. Disconnect electrical power before adding to or changing the configuration of the DL-FLEX tape light.
5. Do not install this LED fixture in damp or wet locations.
6. Fixtures must be installed by a qualified electrician in accordance with all national and local electrical and construction codes and regulation.



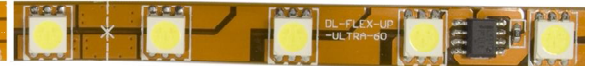
DL-FLEX (-UP, -UPHO, -UP-ULTRA)

LED FLEXIBLE LINEAR
DL-FLEX STATIC SERIES

DL-FLEX-UP / DL-FLEX-UPHO



DL-FLEX-UP-ULTRA



DESCRIPTION

DL-FLEX series is a commercial grade modular lighting system featuring 3 levels of light output with a wide range of accessories and a variety of control options. This unique plug and play feature eliminates the need for field soldering; providing easy and simple installations. Made of highly flexible material that can be applied to most surfaces categorized as having high surface energy using 3M® double sided tape.

FEATURES

- Low profile and flexible (for a 90° bends or tighter, do so at the cutting mark).
- Low power consumption
- No ultra violet (UV/IR) radiation, no mercury.
- Field cuttable

APPLICATIONS

- Cove, cabinet and soffit lighting
- Showcase and display
- Path and contour marking
- Accent, edge, and back lighting
- Signage

SPECIFICATIONS

Beam Angle	120°
Input Voltage	24V DC
Lamp Life	50,000 hours
LEDs (per ft)	18
Operating Temperature *	-22°F to 122°F
Max Run †	DL-FLEX-UP : 30 ft DL-FLEX-UPHO : 20 ft DL-FLEX-UP-ULTRA : 20 ft
Min Run †	6 LEDs, ~4" (White, Blue, Green) 9 LEDs, ~6" (Red, Yellow)
Mounting	Tape, Channel
Environment	Indoor, Dry
Certifications	US LISTED
Warranty	5 Years – see published warranty terms for detailed information.

* Exceeding the operating temperature values may damage the LEDs by reducing the lifespan, lumen output, and/or adversely impact color consistency. It is recommended adequate airflow and heatsinking be taken into consideration in the installation and application of this product. Improper thermal management may lead to premature product failure and void the warranty.

† Single runs can not exceed max run value. Cuts can only be made on the cutting mark. Cut pieces can not be joined.

LUMEN DATA

DL-FLEX-UP

Color Temp	Watts (per ft)	Lumens (per ft)	Efficacy (lm/W)	CRI
2400-2700K	1.4	115	82	80
3000-3300K	1.4	115	82	80
4000-4300K	1.4	120	86	80
6000-6500K	1.4	125	89	80
Red	0.9	32	29	-
Yellow	0.9	32	29	-
Green	1.4	28	39	-
Blue	1.4	14	20	-

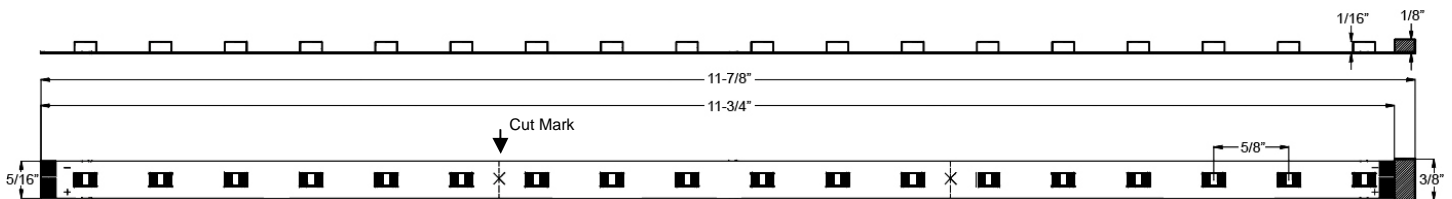
DL-FLEX-UPHO

Color Temp	Watts (per ft)	Lumens (per ft)	Efficacy (lm/W)	CRI
2400-2700K	3	185	62	80
3000-3300K	3	185	62	80
4000-4300K	3	190	63	80
6000-6500K	3	195	65	80

DL-FLEX-UP-ULTRA

Color Temp	Watts (per ft)	Lumens (per ft)	Efficacy (lm/W)	CRI
2400-2700K	4	310	78	80
3000-3300K	4	310	78	80
4000-4300K	4	315	79	80
6000-6500K	4	320	80	80

DIMENSIONS



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support@jescolighting.com
Tech Support: 855.592.0029

6625 Traffic Ave
Glendale, NY 11385
Main Line: 800.527.7796
Fax Line: 855.592.0029

219 South 6th Ave
City of Industry, CA 91746
Main Line: 855.654.0110
Fax Line: 626.333.2955

Rev 2
6/5/2012

Specifications subject to change without notice.



DL-FLEX (-UP, -UPHO, -UP-ULTRA)

LED FLEXIBLE LINEAR
DL-FLEX STATIC SERIES

ORDERING INFORMATION

SERIES	MODEL	COLOR
DL-FLEX	UP	
		27 : 2400-2700K R : Red
		30 : 3000-3300K Y : Yellow
		40 : 4000-4300K G : Green
		60 : 6000-6500K B : Blue

DL-FLEX-UP is packed in 30 ft roll lengths.
Specify required amount of 1 ft lengths before the ordering number.

Example: 30 x DL-FLEX-UP-30

SERIES	MODEL	COLOR
DL-FLEX	UPHO	
	UP-ULTRA	
		27 : 2400-2700K
		30 : 3000-3300K
		40 : 4000-4300K
		60 : 6000-6500K

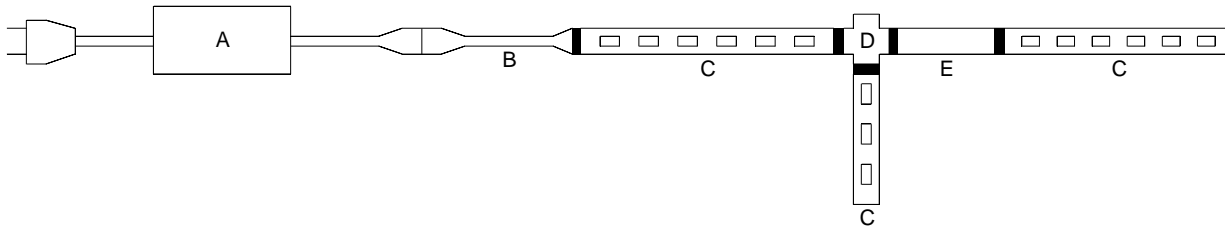
DL-FLEX-UPHO, DL-FLEX-UP-ULTRA is packed in 20 ft roll lengths.
Specify required amount of 1 ft lengths before the ordering number.

Example: 20 x DL-FLEX-UPHO-30

WIRING DIAGRAMS – For reference purposes only. Not for installation. Not to scale.

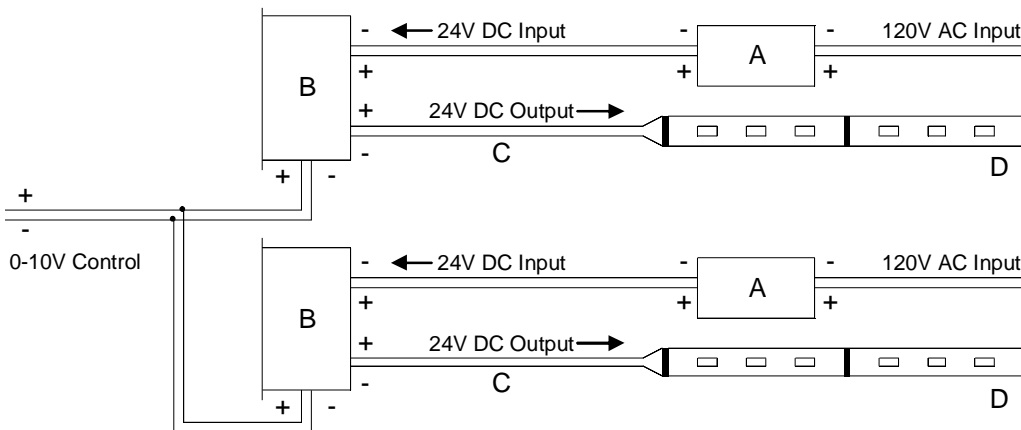
PLUG & PLAY • On/off

A.	Power Supply	DL-PS-XX/24
B.	Power Connector	DL-FLEX-PC
C.	LED Luminaire	DL-FLEX
D.	Connector	DL-FLEX-X-CONN
E.	Connector	DL-FLEX-CC6



HARD-WIRE • Dimming for multiple runs

A.	Power Supply	DL-PS-XX/24-JB-XX
B.	0-10V Dimming Interface	LC-DIM5A-HW (See spec sheet for more information)
C.	Power Connector	DL-FLEX-PC-HW
D.	LED Luminaire	DL-FLEX





DL-FLEX (-UP, -UPHO, -UP-ULTRA)

LED FLEXIBLE LINEAR
DL-FLEX STATIC SERIES

POWER SUPPLIES – See Specification Sheets for more information.

If the Max Load of a power supply exceeds the fixture's Max Run, then you may install multiple runs per given power supply.

Wattage = Max power capacity of power supply. May need to be de-rated if operating at max temperature.

Max Load = Fixture quantity a power supply can power.

Max Run = Maximum length of a single fixture.

Hard-Wire Power Supplies Wet, Damp, or Dry Location UL Listed (with Junction Box)		DL-FLEX-UP		DL-FLEX-UPHO	DL-FLEX-UP-ULTRA	DL-FLEX-UP-RGB
		White, Green, Blue	Red, Yellow			
		Max Run : 30 ft	Max Run : 30 ft	Max Run : 20 ft	Max Run : 20 ft	Max Run : 20 ft
		1.4 W/Ft	0.9 W/Ft	3 W/Ft	4 W/Ft	3.2 W/Ft
Model Number	Wattage	Max Load	Max Load	Max Load	Max Load	Max Load
DL-PS - 80 / 24 - JB - OD	80	57 ft	88 ft	26 ft	20 ft	25 ft

Hard-Wire Power Supplies Dry Location UL Recognized (with Junction Box)		DL-FLEX-UP		DL-FLEX-UP-HO	DL-FLEX-UP-ULTRA	DL-FLEX-UP-RGB
		White, Green, Blue	Red, Yellow			
		Max Run : 30 ft	Max Run : 30 ft	Max Run : 20 ft	Max Run : 20 ft	Max Run : 20 ft
		1.4 W/Ft	0.9 W/Ft	3 W/Ft	4 W/Ft	3.2 W/Ft
Model Number	Wattage	Max Load	Max Load	Max Load	Max Load	Max Load
DL-PS - 20 / 24 - JB	20	14 ft	22 ft	6 ft	5 ft	6 ft
DL-PS - 35 / 24 - JB	35	25 ft	38 ft	11 ft	8 ft	10 ft
DL-PS - 60 / 24 - JB	60	42 ft	66 ft	20 ft	15 ft	18 ft
DL-PS - 60 / 24 - JBS	60	42 ft	66 ft	20 ft	15 ft	18 ft
DL-PS - 100 / 24 - JB	96	68 ft	106 ft	32 ft	24 ft	30 ft
DL-PS - 120 / 24 - JB	2 x 60*	2 x 42 ft	2 x 66 ft	2 x 20 ft	2 x 15 ft	2 x 18 ft
DL-PS - 180 / 24 - JB	3 x 60*	2 x 42 ft	3 x 66 ft	3 x 20 ft	3 x 15 ft	3 x 18 ft
DL-PS - 200 / 24 - JB	2 x 96*	2 x 68 ft	2 x 106 ft	2 x 32 ft	2 x 24 ft	2 x 30 ft

* Consists of multiple power supplies in a single junction box.

Plug & Play Power Supplies Dry Location UL Listed		DL-FLEX-UP		DL-FLEX-UPHO	DL-FLEX-UP-ULTRA	DL-FLEX-UP-RGB
		White, Green, Blue	Red, Yellow			
		Max Run : 30 ft	Max Run : 30 ft	Max Run : 20 ft	Max Run : 20 ft	Max Run : 20 ft
		1.4 W/Ft	0.9 W/Ft	3 W/Ft	4 W/Ft	3.2 W/Ft
Model Number	Wattage	Max Load	Max Load	Max Load	Max Load	Max Load
DL-PS - WP 24 / 24	24	16 ft	24 ft	7 ft	6 ft	7 ft
DL-PS - 24 / 24	24	16 ft	24 ft	7 ft	6 ft	7 ft
DL-PS - 48 / 24	48	32 ft	48 ft	14 ft	14 ft	14 ft
DL-PS - 60 / 24	60	40 ft	60 ft	18 ft	15 ft	18 ft
DL-PS - 100 / 24	90	60 ft	90 ft	26 ft	22 ft	26 ft

DIMMERS – See Specification Sheets for more information.

Plug and Play

Part Number	Description
LC-DIM5A	12 / 24V, 0-10V Dimmer Built-in rotary switch
LC-DIM100-RF	12 / 24V, Step Dimmer Remote control

Hard Wire



Part Number	Description
LC-DIM5A-HW	12 / 24V, 0-10V Dimming Interface Requires separate 0-10V dimmer switch
LC-DIM100-RF-HW	12 / 24V, Step Dimming Remote control
DS-DV-TV-HW	0-10V Wall Plate Dimmer Switch Smooth dimming, used with LC-DIM5A-HW





DL-FLEX (-UP, -UPHO, -UP-ULTRA)



LED FLEXIBLE LINEAR
DL-FLEX STATIC SERIES


ACCESSORIES

	Part Number	Description
	DL-FLEX-X-CONN	Universal "X" Connector Connects four DL-FLEX strip. Cut to make 2-way "L" connection or 3-way "T" connection.
	DL-FLEX-UP-4-(27/30/40/60/B/G)	4" DL-FLEX-UP Available in 2700K, 3000K, 4000K, 6000K, Blue, Green.
	DL-FLEX-UP-6-(R/Y)	6" DL-FLEX-UP Available in Red and Yellow.



	Part Number	Description
	DL-FLEX-CC6	6" Blank FLEX-UP tape mid-connector.
	DL-FLEX-CC12	12" Blank FLEX-UP tape mid-connector.
	DL-FLEX-HO-4-(27/30/40/60)	4" DL-FLEX-UPHO Available in 2700K, 3000K, 4000K, 6000K
	DL-FLEX-UP-ULTRA-4-(27/30/40/60)	4" DL-FLEX-UP-ULTRA Available in 2700K, 3000K, 4000K, 6000K


HARD-WIRE POWER CONNECTORS

	Part Number	Description
	DL-FLEX-PC-HW	19" Input Power Connector 13-1/2" wire / 5-7/8" FLEX-UP tape. Connects hard-wire equipment to DL-FLEX-UP.
	DL-FLEX-PC2-HW	12" Input Power Connector 11-1/4" wire / 3/8" FLEX-UP tape. Connects hard-wire equipment to DL-FLEX-UP.




	Part Number	Description
	DL-FLEX-PT-HW	13" Output Power Connector 6-7/8" Bare Wire / 6" FLEX-UP tape with FLEX-UP connector. Connects DL-FLEX-UP to hard-wire equipment.




PLUG & PLAY POWER CONNECTORS

	Part Number	Description
	DL-FLEX-PC	19" Input Power Connector 13-1/4" cable / 5-7/8" FLEX-UP tape. Connects plug and play equipment to DL-FLEX-UP.
	DL-FLEX-PC2	12" Input Power Connector 11-1/4" cable / 3/8" FLEX-UP tape. Connects hard-wire equipment to DL-FLEX-UP.

	Part Number	Description
	DL-FLEX-PT	13" Output Power Connector 6-7/8" Bare Wire / 6" FLEX-UP tape with FLEX-UP connector. Connects DL-FLEX-UP to hard-wire equipment.

MOUNTING ACCESSORIES

	Part Number	Description
	DL-FLEX-CH6	Aluminum mounting channel 6' L x 1/2" W x 1/4" H
	DL-FLEX-CH-LE	Live end end cap for DL-FLEX-CH6. Hole allows power cable to pass through.
	DL-FLEX-DC6	6' Clear acrylic lens for DL-FLEX-CH6. 91.5% light transmittance, 1% haze.
	DL-FLEX-FC6	6' Frosted acrylic lens for DL-FLEX-CH6. 85% light transmittance, 4% haze.

	Part Number	Description
	DL-FLEX-CH-CLIP	Mounting clip for DL-FLEX-CH6 Recommend 24" between clips for most installations. (Sold as a pair)
	DL-FLEX-CH-EC	End cap for DL-FLEX-CH6. Use for finished look.
	LLMFH-C/C-CH6	6' Carpet to carpet channel. Includes clear lens.
	LLMFH-C/W-CH6	6' Carpet to wood channel. Includes clear lens.