



AMERICAN LIGHTING



LED FLEXFORM 30 & 60

FLEXFORM 30 & 60

FEATURES

- Economical, super bright and dimmable with specific 12V DC drivers
- Low profile – 13/32" wide by 3/32" high – offers a great illumination solution for tight, space-limited areas
- Simple to install – FlexForm tape light mounts easily and quickly to wood, metals and most other smooth hard surfaces with 3M adhesive backing
- Sold in convenient kits with 16.4 feet (5 meters) of flexible tape light (see back page for kit components)
- Warm White (3000K) and Bright White (5000K) offered in both 30 LEDs per meter and 60 LEDs per meter versions
- Other colors also offered (60 LEDs per meter only): Amber, Blue, Green, Red and Yellow
- Compatible with a wide variety of 12V DC drivers, sold separately – see Accessories on back page for most suitable types depending on capacity and dimming capability as needed
- Small cutting increments of 1.97" or 3.94" easily accommodate most layouts
- Suitable for indoor or outdoor use – IP 44 rated – when used outdoors, all power connections, Ls, Ts and splice connectors must be properly sealed with silicone and shrink tube

LED FlexForm uses 5050 LEDs for superior performance and high brightness.

What's the difference between 3528 and 5050 SMD LEDs?



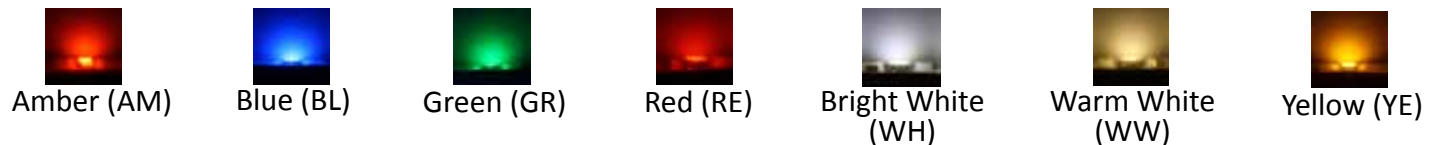
American Lighting's 5050 LEDs measure 5.0mm x 5.0mm - and have three times the light output of 3528 LEDs! The tri-chip construction allows higher color rendering ability than many other tape light products on the market.



Other manufacturers' 3528 LEDs are smaller (measuring 3.5mm x 2.8mm), less bright and are made of a single chip.



FlexForm 60 colors available:



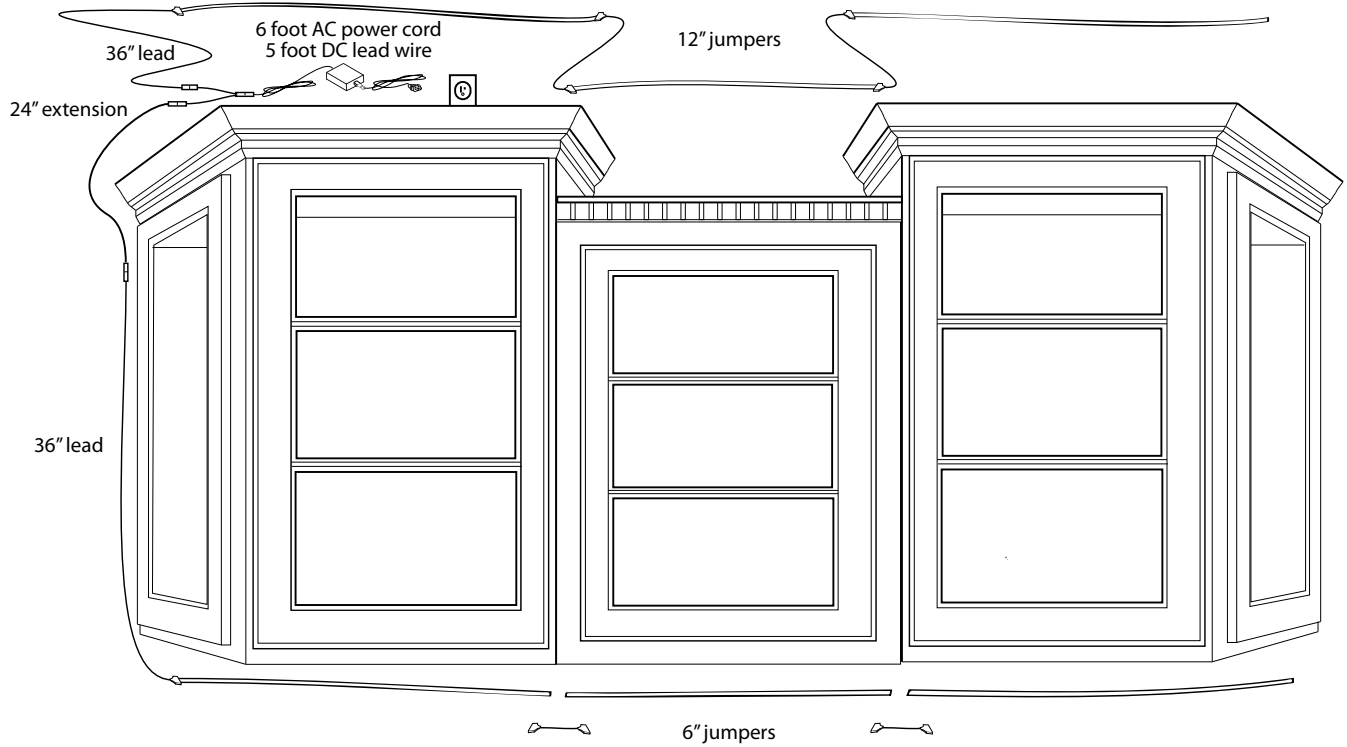
Choose the color and light output that works best for your application:

Warm White (3000K)	Light Output (Lumens/Ft)	Color Accuracy (CRI)	Wattage (Watts/Ft)
TL-30-WW	74	75	2.2
TL-60-WW	148	75	4.4

Bright White (5000K)	Light Output (Lumens/Ft)	Color Accuracy (CRI)	Wattage (Watts/Ft)
TL-30-WH	97	77	2.2
TL-60-WH	194	77	4.4

See back page for ORDERING INFORMATION

INSTALLATION EXAMPLE



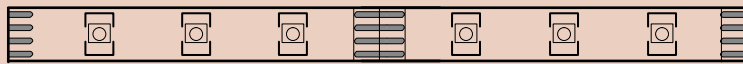
BILL OF MATERIALS

- ❑ Determine length needed to the nearest cutting increment (appx 4" for TL-30; appx 2" for TL-60) Note: Remember that each reel will include 16.4 feet of FlexForm
- ❑ Determine total watts (2.2 watts/ft for TL-30; 4.4 watts/ft for TL-60)
- ❑ Select appropriate driver to cover load. Note: for longer runs, place the driver in a central location and plan two runs from this location
- ❑ Determine whether any Ls, Ts or jumpers are required
- ❑ Consider where jumpers (between FlexForm light sections) might be needed

Bill of materials for above example:

- (1) TL-60-WW
- (1) RCA-EX24
- (1) RCA-Y
- (2) TL-JUMP1
- (2) TL-JUMP.5
- (1) PS-60-12VPI

CUTTING INCREMENTS: LED FlexForm can be cut every three LEDs.



TL-60 can be cut every 1.97"



TL-30 can be cut every 3.94"

TECHNICAL SPECIFICATIONS

Voltage	12V DC operation
Construction	Rolled copper strip with 5050 SMD chips encapsulated in clear epoxy resin
Mounting	Mount to suitable surface using LED FlexForm's 3M adhesive backing
Dimensions	L = 16.4 feet, W = 13/32", H = 3/32"
Reel Length	16.40 feet (5 meters) for TL-30 and TL-60
Cuttability	Every 3.94" (10cm) for TL-30; every 1.97" (5cm) for TL-60
Wattage	TL-30 = 2.2 watts/ft (7.2 watts/meter); TL-60 = 4.4 watts/ft (14.4 watts/meter)
Maximum run	16.40 feet (5 meters)
Packaging	Boxed
LED specs	5050 SMD, 50,000 hours rate life, Bright White (WH) is 5000K ± 300K, CRI = 77; Warm White (WW) is 3000K ± 300K, CRI = 75, 120° beam angle
Dimmers	Dimmable with pulse width modulation (PWM) dimmer and PS series drivers

ORDERING INFORMATION

16.4' Kits

TL-30

12V LED FlexForm
(30 LEDs per meter,
2.2 watts/ft)

WW = Warm White
WH = Bright White

TL-60

12V LED FlexForm
(60 LEDs per meter,
4.4 watts/ft)

AM = Amber **BL** = Blue
GR = Green **RE** = Red
WH = Bright White **WW** = Warm White
YE = Yellow

100' Reels

TL

12V LED
FlexForm

30 = 30 LEDs/
meter
60 = 60 LEDs/
meter

100

98.4 ft
Reels

WW = Warm White
WH = Bright White

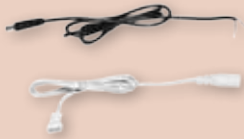
100' reels do not include accessories.

Each 16.4' kit includes 16.4' reel of LED FlexForm with 3M adhesive, three 36" power connectors for plug-in drivers, three 36" adapter cables for hardwire applications and 16 mounting clips.

WW = 3000K, 75 CRI

WH = 5000K, 77 CRI

ACCESSORIES



TL-CONKIT-NP

Power connection kit includes 36" DC lead wire (22AWG, white) with RCA adapter for use with plug-in power supplies and 36" adapter cable (22AWG black); hardwire lead totals 6 feet (they are used together)



PS-(WATTAGE)-12VPI

Plug-in power supply, 12V DC
18, 36 and **60** watt capacities
c/UL/us Listed, non-dimming



TL-JUMP.5, TL-JUMP1, TL-JUMP2

Jumper for connecting two sections of FlexForm together, three lengths available:
TL-JUMP.5 = 6" length
TL-JUMP1 = 12" length
TL-JUMP2 = 24" length



RCA-EX24

Extension that adds 24" from plug-in power supply to beginning of run

RCA-Y

'Y' extension (splitter) for use with plug-in power supplies; can be combined with RCA-EX24



TL-SPL

Splice connectors for joining two sections of FlexForm together, sold in bags of 5



LED-DR-12

12V DC power supply, 1-25 watts; up to approximately 11'2" run, Class 2, c/UR/us Recognized, non-dimming



TL-CLIPS

Clear plastic mounting clips with screws, sold in bags of 16



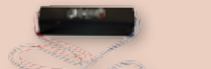
ENCL-11

Enclosure for LED-DR-12 or LED-DR60-12



TL-L

'L' connectors for joining two sections of FlexForm together in a 90° angle; sold in bags of 3 (includes 3 Ls and 6 TL-SPLs)



LED-DR60-12

12V DC power supply, 1-60 watts; Class 2 c/UR/us Recognized, non-dimming



TL-T

'T' connectors for joining three sections of FlexForm together in a "T" formation; sold in bags of 2 (includes 2 Ts and 6 TL-SPLs)



LED-DR100-12

12V DC power supply, 1-100 watts; c/UR/us Recognized, non-dimming



AL-3R-6A

Repeater for PWM dimmer 12V DC input only (not 120V); two power inputs and one signal input; three 6A signal outputs
5"L x 15/16"H x 2-1/2"W



PS-25-12*

1-25W Power supply for LED loads; dimmable with AL-PWM-6A, compatible with AL-3R-6A
4"L x 3-7/8"W x 1-1/2"H, cURus Recognized

PS-60-12*

1-60W Power supply for LED loads; dimmable with AL-PWM-6A, compatible with AL-3R-6A
6-1/4"L x 3-7/8"W x 1-1/2"H, cURus Recognized



AL-PWM-6A

Pulse width modulation (PWM) dimmer
Fits decora style trim plates and standard junction boxes; 12V DC input only (not 120V); 6A output (max load w/o repeater is 72W at 12V)
White finish only



PS-100-12*

1-100W Power supply for LED loads; dimmable with AL-PWM-6A, compatible with AL-3R-6A
7-7/8"L x 3-7/8"W x 1-1/2"H, cURus Recognized

PS-150-12*

1-150W Power supply for LED loads; dimmable with AL-PWM-6A, compatible with AL-3R-6A
7-7/8"L x 4-3/8"W x 2"H, cURus Recognized