

PROJECT: \_\_\_\_\_ FIRM: \_\_\_\_\_ ORDER #: \_\_\_\_\_ TYPE: \_\_\_\_\_ QTY: \_\_\_\_\_



**Flex Tube Mini™** is a ultra low profile, exterior-rated linear LED strip with a fully homogenized 'dotless' direct view appearance. The highly durable silicone body is fully rated to IP67 for wet location use; IK08 for impact resistance and 3G (ANSI C136.31) for high vibration and bridge applications. Two bend-direction options are available, together with a wide range of white color temperatures and saturated colors. Matching aluminum channels perfectly compliment Flex Tube Mini for surface mount, recessed and flexible installations. A range of driver options are available to allow control via DMX, 0-10V or DALI. Alternatively, Flex Tube Mini runs can also be integrated directly into mains-level dimming systems using our reverse/forward phase MLE dimmer drivers.

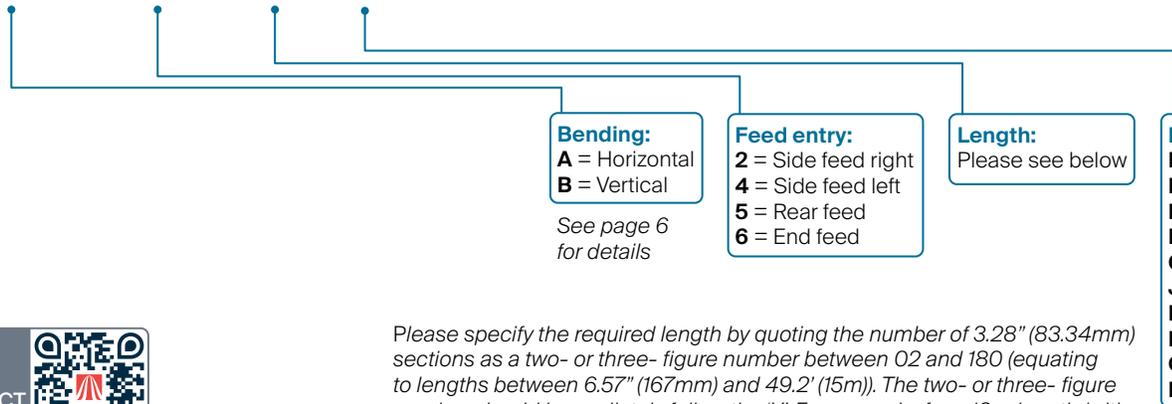
## At a glance

<p><b>Optics</b></p>	<p><b>Emitters</b></p>			
<p><b>Power</b></p> <p>Low voltage: <b>24VDC</b> via driver</p>	<p><b>Consumption</b></p> <p>1.37W per foot 4.5W per meter</p>	<p><b>Temperature</b></p> <p>-40° F to 131° F -40° C to 55° C</p>	<p><b>Output</b></p> <p>Up to <b>102 lumens</b> per linear foot</p>	<p><b>Protection</b></p> <p>Ingress: <b>IP67</b> Impact: <b>IK08</b> Vibration: <b>3G</b></p>

## Configure your product

**FM -22 -Xnn A N**

Example final code: **FMA-225-X126AEN**



Please specify the required length by quoting the number of 3.28" (83.34mm) sections as a two- or three- figure number between 02 and 180 (equating to lengths between 6.57" (167mm) and 49.2' (15m)). The two- or three- figure number should immediately follow the 'X'. For example, for a 10m length (with horizontal bend, rear feed and 3000K emitters) the order code would be:

**FXA-225-X120AEN**

SCAN FOR PRODUCT PAGE

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PROJECT	FIRM	ORDER #	TYPE	QTY
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## Specifications

<b>Emitters</b>	2200K, 2700K, 3000K, 3500K, 4000K, 5700K, Red, Green, Blue or Amber
<b>Optics</b>	120°
<b>Output</b>	Up to 102 lumens per foot
<b>Lumen maintenance</b>	L <sub>70</sub> 50,000 hours (@ 25° C)
<b>Control</b>	Low voltage control via optional AL Driver: DMX (0-100%), DALI (0-100%) or 0-10V (1-100%) Mains-level control via optional MLE driver: TRIAC (forward phase) or ELV (reverse phase) - (1-100%)
<b>Operating voltage</b>	24VDC
<b>Power consumption</b>	1.37W per foot (4.5W per meter)
<b>Connection</b>	16.4' (5m) injection molded feed cable with bare tails
<b>Fixture lengths</b>	Built to order lengths up to 49.2' (15m)
<b>Minimum bends</b>	Separate model options with vertical or horizontal bend. Minimum bend radius: 3.93" (100mm)
<b>Mounting</b>	Press-fit aluminum channels in various lengths: 0.78" (20mm), 3.28' (1m) or 6.5' (2m)
<b>Material</b>	UV resistant silicone
<b>Finish</b>	White
<b>Ambient temperature range</b>	-40° F to 131° F (-40° C to 55° C)
<b>Ingress protection</b>	IP67, wet location
<b>Impact protection</b>	IK08, protection against 5 joule impact (30cm distance)
<b>Vibration protection</b>	ANSI C136.31, 3G-rated for high vibration and bridge applications
<b>Warranty</b>	5 years, limited
<b>Weight</b>	4.3 lbs (1.95 kg) for 15m spool
<b>Dimensions</b>	See page 7

**Certifications**



## Photometrics (estimated)

For all available IES files, please visit [acclaimlighting.com/flex-tube-mini](http://acclaimlighting.com/flex-tube-mini)

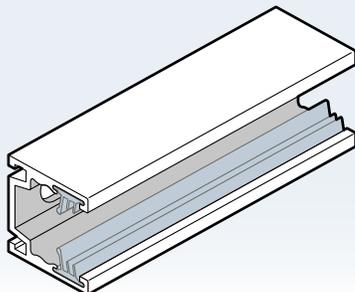
Color temp. / color	Lumens (/ft)	Max Candela	CRI	TM30
2200K	81.6	26.5	84.2	86.2
2700K	102	32.5	83.6	85.6
3000K	100	31.9	84.2	85.8
4000K	100	31.9	84.2	85.8
Red	33.7	10.8	-	-
Green	115	36.6	-	-
Blue	22.5	7.06	-	-
Amber	38.1	12.2	-	-

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## Related components *(channel dimensions on page 8)*

### Rigid channel

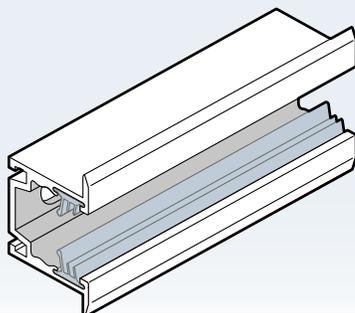
A rigid aluminum channel for straight Flex Tube runs. Available in 0.78" (20mm), 3.28' (1m) and 6.56' (2m) lengths. Supplied with between 1 and 10 screws, depending on the chosen length.



0.78" (20mm) .....	<b>FMCH20</b>
3.28' (1m).....	<b>FMCH1000</b>
6.56' (2m).....	<b>FMCH2000</b>

### Rigid flanged channel

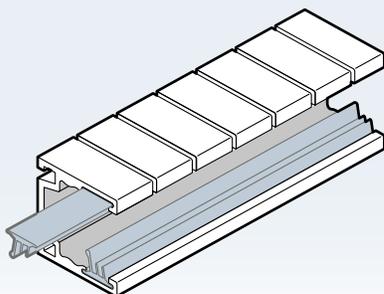
A rigid aluminum channel for straight Flex Tube runs, featuring a flanged edge for recessed applications. Available in 0.78" (20mm), 3.28' (1m) and 6.56' (2m) lengths. Supplied with between 1 and 10 screws, depending on the chosen length.



0.78" (20mm) .....	<b>FMRCH20</b>
3.28' (1m).....	<b>FMRCH1000</b>
6.56' (2m).....	<b>FMRCH2000</b>

### Flexible channel for horizontal bends

An aluminum channel with one sectioned side wall to allow bends to be formed in the horizontal axis. Available in 1.64' (500mm) and 3.28' (1m) lengths. Supplied with 2 or 5 screws, depending on the chosen length.



#### For horizontal bend versions

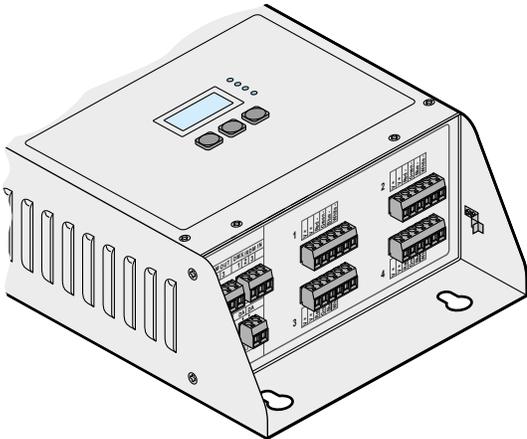
1.64' (500mm).....	<b>FMFCH500</b>
3.28' (1m).....	<b>FMFCH1000</b>



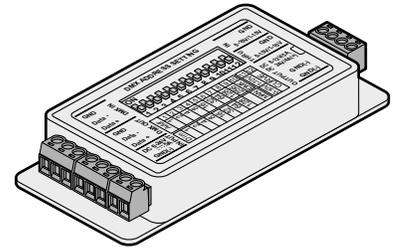
PROJECT \_\_\_\_\_ FIRM \_\_\_\_\_ ORDER # \_\_\_\_\_ TYPE \_\_\_\_\_ QTY \_\_\_\_\_

## Related components

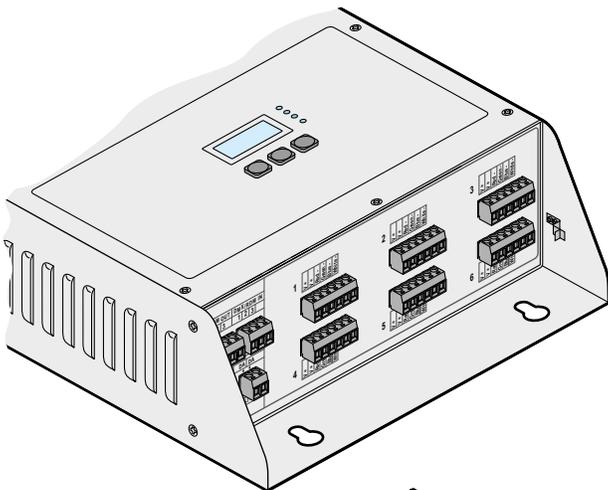
### Drivers



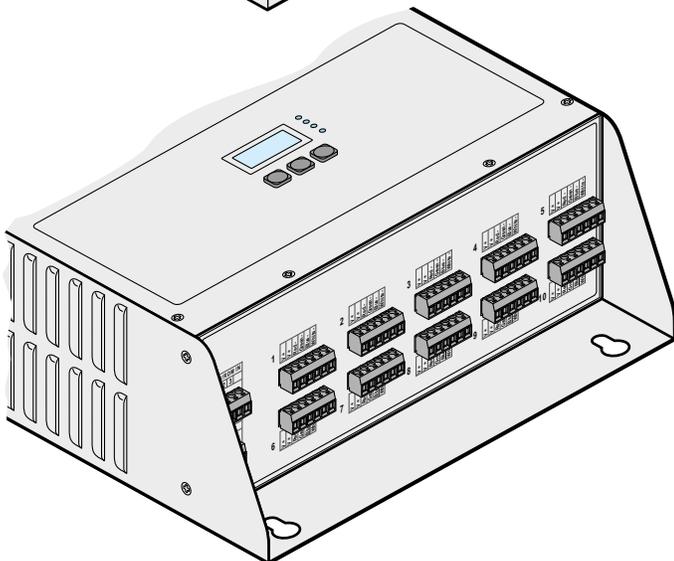
**AL Driver 200 C2**  
 200W 24VDC  
 4 output ports  
**2x 15m spools** maximum  
 DMX, DALI or 0-10V  
 (sink or source)  
 Class 2 compliant  
 100-277VAC 50/60Hz  
 Part # **ALD-200-24 C2**



**AL Driver 1**  
**1x 15m spool**  
 maximum  
 DMX or 0-10V  
 (sink or source)  
 24VDC input (use  
 in conjunction with  
 ALPS-series 24VDC  
 power supplies)  
 Part # **ALD001**



**AL Driver 400 C2**  
 400W 24VDC  
 6 output ports  
**5x 15m spools** maximum  
 DMX, DALI or 0-10V  
 (sink or source)  
 Class 2 compliant  
 100-277VAC 50/60Hz  
 Part # **ALD-400-24 C2**



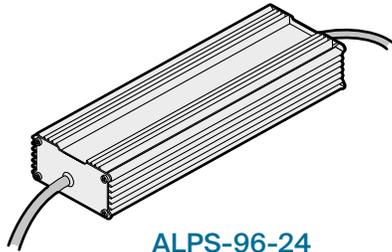
**AL Driver 800 C2**  
 800W 24VDC  
 10 output ports  
**10x 15m spools** maximum  
 DMX, DALI or 0-10V  
 (sink or source)  
 Class 2 compliant  
 100-277VAC 50/60Hz  
 Part # **ALD-800-24 C2**



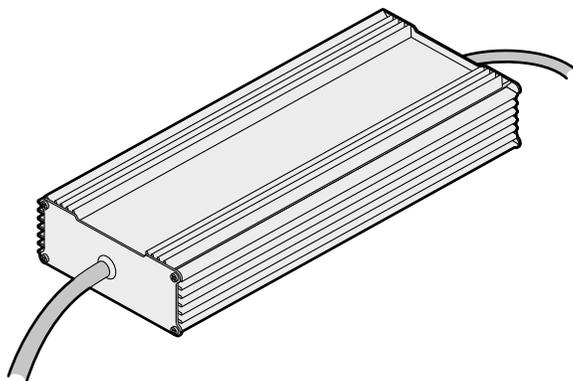
PROJECT	FIRM	ORDER #	TYPE	QTY
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## Related components

### Power supplies (wet and dry locations) *(for use with single channel drivers or non dimming applications)*



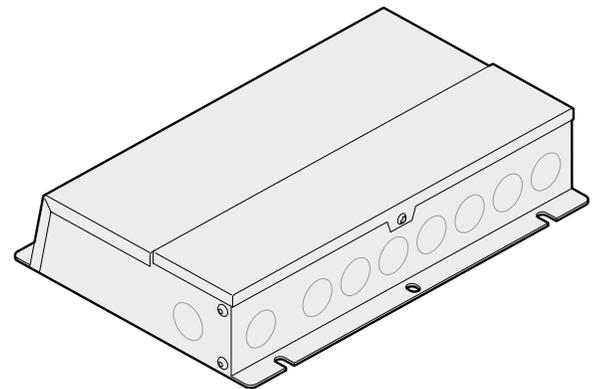
**ALPS-96-24**  
 96W 24VDC  
**1x 15m spool** maximum  
 IP66 ingress protection  
 100-277VAC 50/60Hz  
 Part # **ALPS-96-24**



**ALPS-200-24**  
 200W 24VDC  
**2x 15m spools** maximum  
 IP66 ingress protection  
 100-277VAC 50/60Hz  
 Part # **ALPS-200-24**

**ALPS-400-24**  
 400W 24VDC  
**5x 15m spools** maximum  
 IP66 ingress protection  
 100-277VAC 50/60Hz  
 Part # **ALPS-400-24**

### Mains (and 0-10V) dimmable drivers *(to allow Flex Tube SC G2 to be integrated into traditional high voltage dimmer circuits)*



- Can accept dimmed mains from forward phase (leading edge/TRIAC) or reverse phase (trailing edge/ELV) dimmers.
- 100-277VAC input.
- A 0-10V input (sink or source) is also provided for low voltage control when a stable mains supply is used.
- Produces a 1-100% dimming output.
- NEMA 3 enclosure (indoor/outdoor) 100-277VAC 50/60Hz
- Three variants are available:

1x 96W 24VDC  
**1x 15m spool** maximum  
 Part # **MLE96-24DC-UD**

2x 96W (192W total) 24VDC  
**2x 15m spools** maximum  
 Part # **MLE192-24DC-UD**

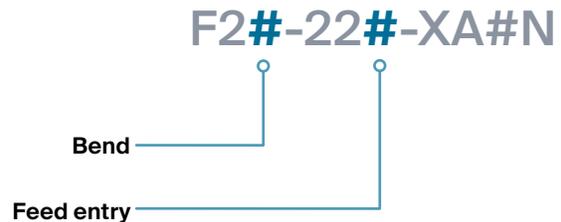
3x 96W (288W total) 24VDC  
**3x 15m spools** maximum  
 Part # **MLE288-24DC-UD**



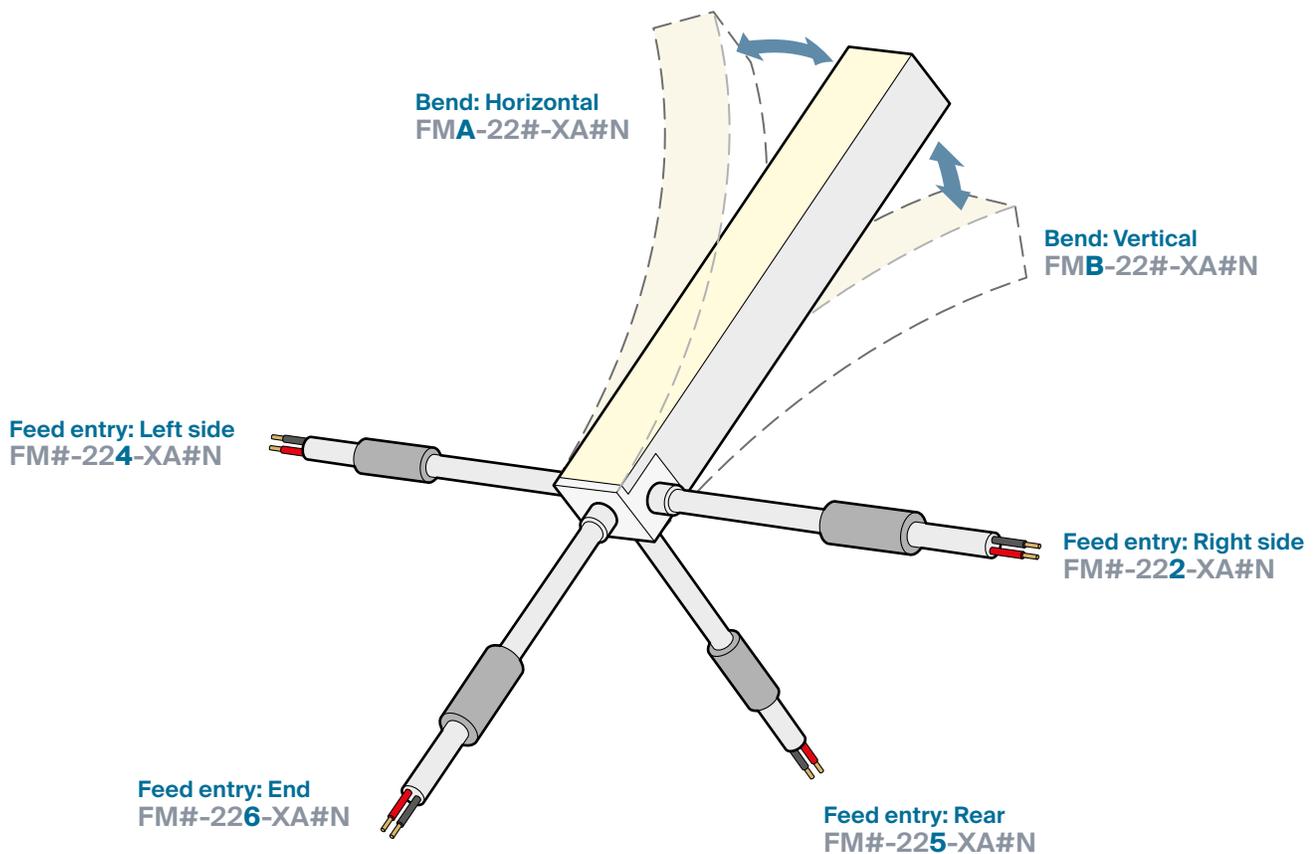
PROJECT \_\_\_\_\_ FIRM \_\_\_\_\_ ORDER # \_\_\_\_\_ TYPE \_\_\_\_\_ QTY \_\_\_\_\_

## Bends and feed entries

Flex Tube Mini strips are available with two bend options and four choices of power feed entries, which can be mixed in any combination to suit your installation.



The bend and feed entry options affect the order code as follows:



### Link cable guidelines

Connection cable extensions used to link Flex Tubes to the power/driver unit should follow these guidelines:

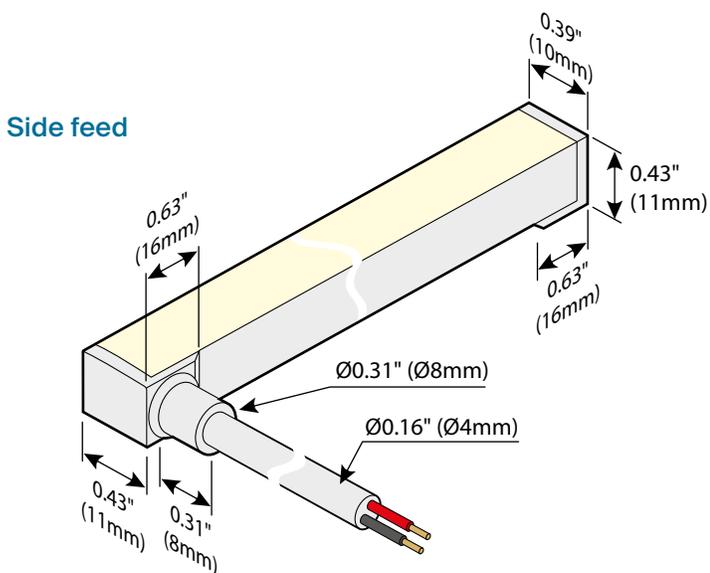
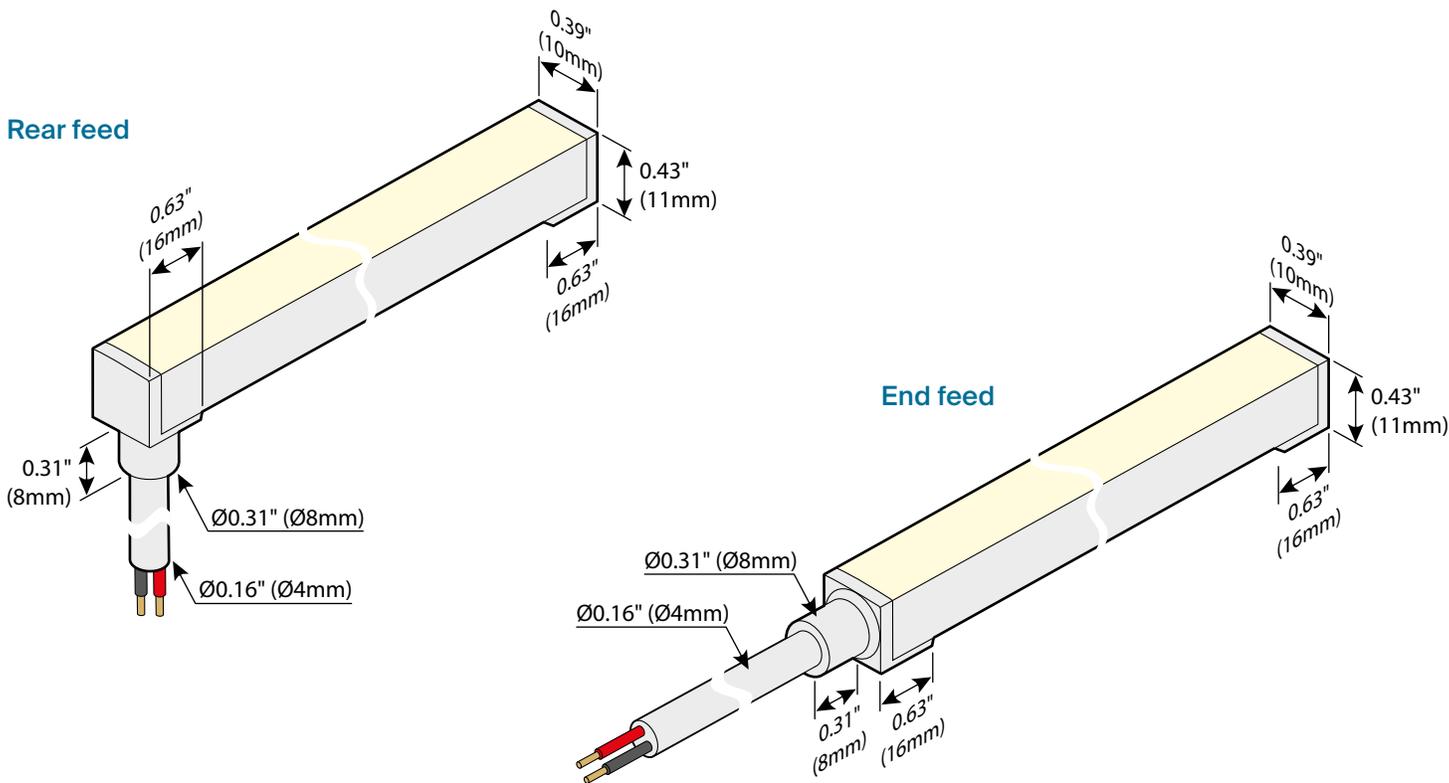
- Up to 40 feet (12m) 18 AWG (0.823mm<sup>2</sup>)
- Up to 100 feet (30.5m) 14 AWG (2.081mm<sup>2</sup>)
- Up to 170 feet (51.8m) 12 AWG (3.309mm<sup>2</sup>)

In all cases, ensure that the voltage drop at the fixture end of the link cable is no greater than 8% (1.92V) of the original 24VDC supply.

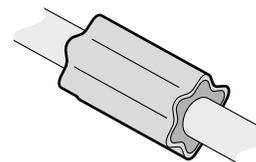


PROJECT	FIRM	ORDER #	TYPE	QTY
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## Dimensions



Note: Each feed cable has a metal-encased joint roughly 5" (130mm) from the inlet, which must not be removed.



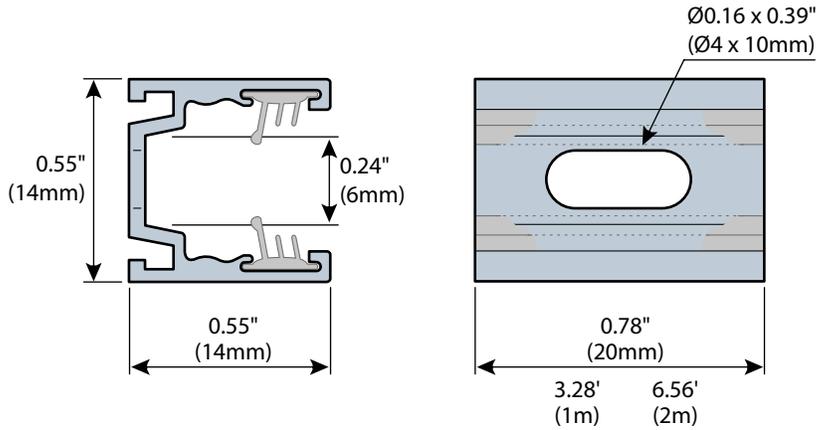
Max Ø0.59" (15mm)



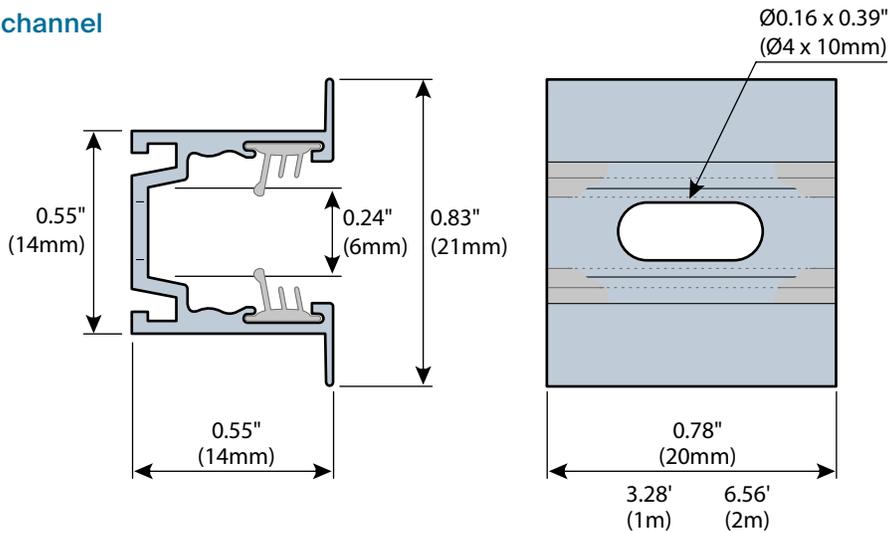
PROJECT  FIRM  ORDER #  TYPE  QTY

## Dimensions

### Rigid channel



### Rigid flanged channel



For full installation details, please refer to the **user guide**, available for free download here:

