

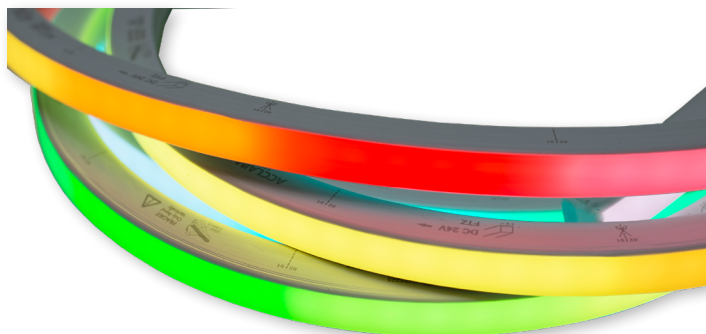
PROJECT

FIRM

ORDER #

TYPE


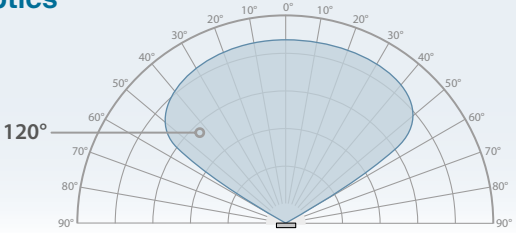
QTY





**Flex Tube Pixel G2™** is a low profile, exterior-rated linear LED RGB/RGBW strip that features individual control of every 3.28" (83.34mm) section plus a fully homogenized 'dotless' direct view appearance. The highly durable silicone body is fully rated to IP68 for wet location use; IK08 for impact resistance and 3G (ANSI C136.31) for high vibration and bridge applications.

Several RGB or RGBW emitter choices are available, together with two bend-direction options. Matching aluminum channels perfectly compliment Flex Tube Pixel G2 for surface mount, recessed and flexible installations. Various SPI driver options are available to allow control via DMX or Art-Net - see pages 3 and 4.


## At a glance


**Optics**




**Emitters**



**RGB**

or



**QS  
RGBW  
(W=3000K)**

or



**QW4  
RGBW  
(W=4000K)**


**Power**


Low voltage:  
**24VDC**  
via driver


**Consumption**


**6.7W** per foot  
**22W** per meter


**Temperature**

**-40° F** to **131° F**  
**-40° C** to **55° C**


**Output**

Up to  
**287 lumens**  
per linear foot


**Protection**

Ingress: **IP68**  
Impact: **IK08**  
Vibration: **3G**

## Configure your product

**F2**   **-22**   **-Xnn** **A**   **N**

Example final code: **F2Y-225-AARN**

**Bending:**  
**Y** = Horizontal  
**Z** = Vertical  
*See page 8  
for details*

**Feed entry:**  
**2** = Side feed right  
**4** = Side feed left  
**5** = Rear feed  
**6** = End feed

**Length:**  
**A** = 16.4' (5m)  
**X** = Custom - please  
see below

**Emitters:**  
**S** = RGB  
**Q** = QS (Quad RGBW, W=3000K)  
**R** = QW4 (Quad RGBW, W=4000K)



For any length other than a full 16.4' 5m spool, please specify the required length by quoting the number of 3.28" (83.34mm) sections as a two-figure number between 02 and 60 (equating to lengths between 6.56" (166.6mm) and 16.4' (5m)). The number should immediately follow the 'X'. For example, for a 4m length (with horizontal bend, rear feed and QW4 emitters) the order code would be:

**F2Y-225-X48ARN**

PROJECT





FIRM

ORDER #

TYPE

QTY

## Specifications

Emitters	RGB, QS (Quad RGBW, W=3000K) or QW4 (Quad RGBW, W=4000K)
Optics	120°
Output	Up to 287 lumens per foot
Lumen maintenance	L <sub>70</sub> 50,000 hours (@ 25° C)
Segments/pixels	Pixel distance of 3.28" (83.34mm), 60 RGB or RGBW sections per 16.4' (5m)
Control	0-100% dimming via DMX, 3 or 4 channels per 3.28" pixel, 180 or 240 channels per 16.4' (5m)
Operating voltage	24VDC
Power consumption	6.7W per foot (22W per meter)
Connection	16.4' (5m) injection molded feed cable with bare tails
Fixture lengths	Built to order lengths up to 16.4' (5m)
Minimum bends	Separate model options with vertical or horizontal bend. Minimum bend radius: 5.9" (150mm)
Mounting	Press-fit aluminum channels in various lengths: 0.78" (20mm), 3.28' (1m) or 6.5' (2m)
Material	UV resistant silicone
Finish	White
Ambient temperature range	-40° F to 131° F (-40° C to 55° C)
Ingress protection	IP68, wet location, submersible* to 6.56' (2m)
Impact protection	IK08, protection against 5 joule impact (30cm distance)
Vibration protection	ANSI C136.31, 3G-rated for high vibration and bridge applications
Warranty	5 years, limited
Weight	3.57 lbs (1.62 kg) for 5m spool
Dimensions	See page 9
Certifications	    <p>* UL approval limits submersible installation to non-human occupied and freshwater locations only. All cables must be landed in environmentally suitable junction boxes.</p>

## Photometrics (estimated)

For all available IES files, please visit [acclaimlighting.com/flex-tube-pixel-g2](https://acclaimlighting.com/flex-tube-pixel-g2)

Emitter style (bend type)	Lumens (/ft) (all emitters on)	Max Candela	CRI (white emitters)	TM30 (white emitters)
QS RGBW (horizontal bend)	206	65.5	82.1	83.5
QS RGBW (vertical bend)	255	81.8	82	83.3
QW4 RGBW (horizontal bend)	234	75.2	83.8	83.7
QW4 RGBW (vertical bend)	287	93.2	83.9	83.9

PROJECT

FIRM

ORDER #

TYPE

QTY

## Control options

There are numerous control options for Flex Tube Pixel G2 strips, offering flexible and expandable solutions for small, medium and large scale installations.

### Solution 1: Pixel Driver 1 control

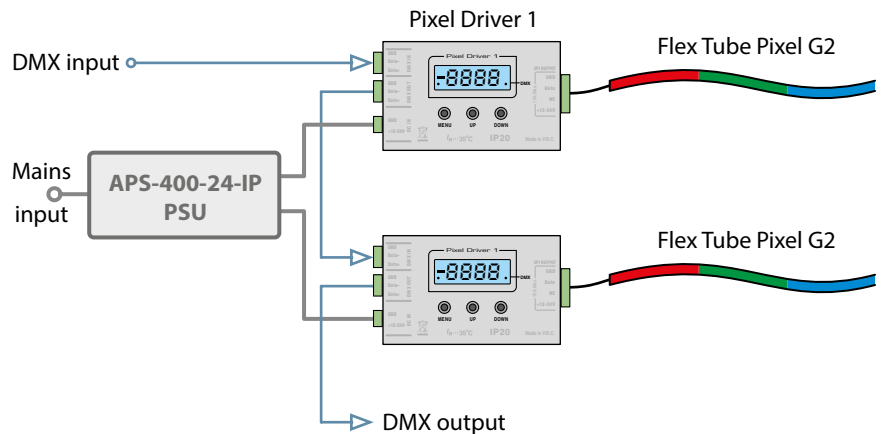
This solution best suits the control of small numbers of Flex Tube Pixel G2 spools, but is potentially expandable to larger quantities.

Each Pixel Driver 1 controls a single spool of Flex Tube Pixel G2. The signal input is via DMX, with each 16.4' (5m) spool requiring the following number of channels:

- Flex Tube Pixel G2 **RGB** 180 DMX channels
- Flex Tube Pixel G2 **RGBW** 240 DMX channels

It is therefore possible to fully control two spools from a single DMX universe.

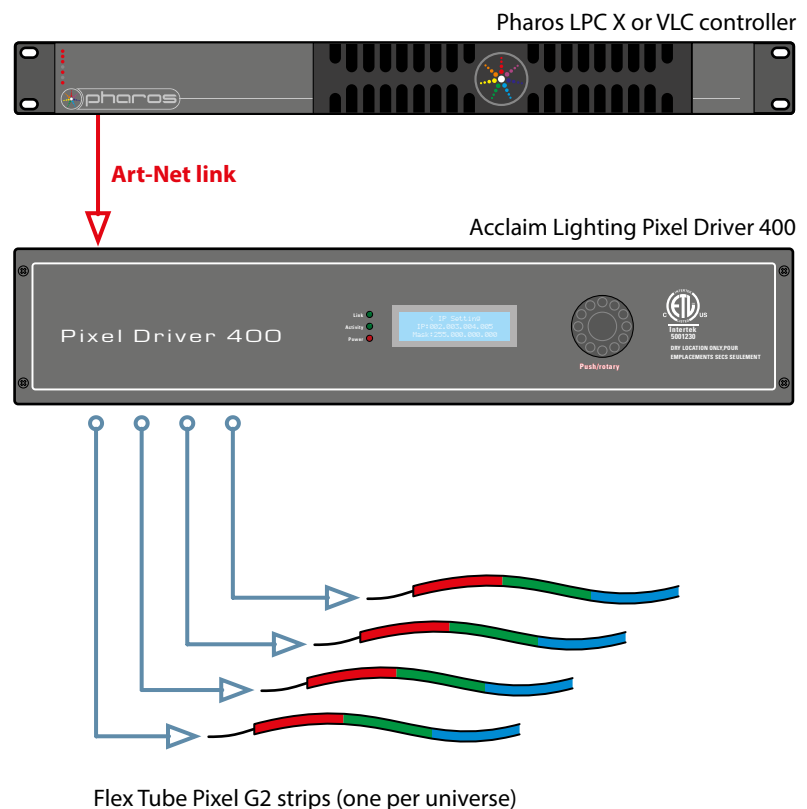
Up to three spools can be powered from a single APS-400-24-IP PSU.



### Solution 2: Pharos LPC X or VLC *plus* Pixel Driver 400

The combination of a Pharos™ controller and multiple Acclaim Pixel Driver 400 units provides a suitable solution for medium size installations.

Each Pixel Driver 400 can control either two full 16.4' (5m) spools or up to four 13.7' (4.2m) lengths of Flex Tube Pixel G2. Alternatively, a greater number of short lengths can be driven. The signal link from the Pharos controller to the Pixel Driver 400 is via Art-Net, with each spool being assigned a separate universe.



### Solution 3: See next page

PROJECT

FIRM

ORDER #

TYPE

QTY

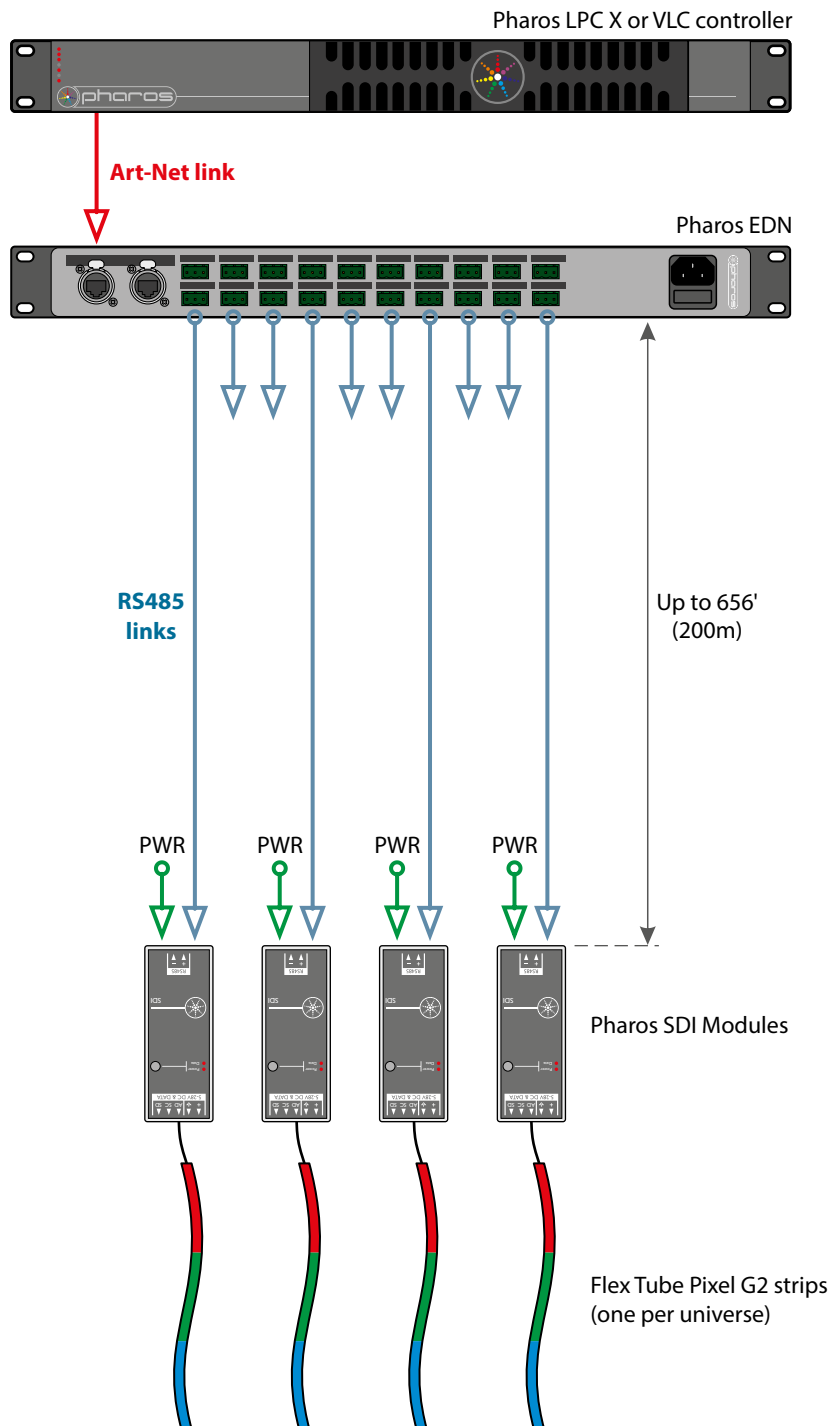
## Control options (*continued*)

### Solution 3: Pharos LPC X or VLC *plus* Pharos EDN *plus* Pharos SDI

For larger deployments of Flex Tube Pixel G2 strips, a scalable modular solution involves the use of multiple Pharos™ components.

Art-Net signals from an LPC X or VLC controller are fed to one or more EDN nodes, each of which has either 10 or 20 outputs. An SDI module can be attached to each output, at a distance of up to 656' (200m). A universe is assigned to each SDI module. At each SDI module, a Flex Tube Pixel G2 spool is attached, together with a local 24VDC power feed.

The number of EDN nodes, SDI modules and Flex Tube Pixel G2 spools can be scaled up to match the needs of large installations.



PROJECT

FIRM

ORDER #

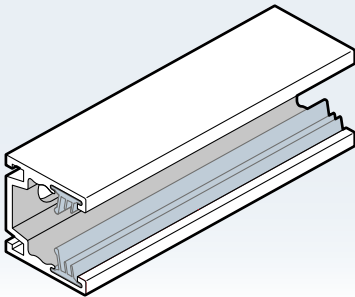
TYPE

QTY

Related components *(channel dimensions on page 10)*

Rigid channel

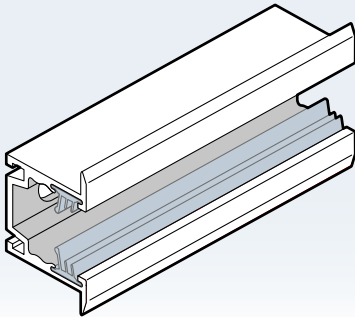
A rigid aluminum channel for straight Flex Tube runs. Available in 0.78" (20mm), 3.28' (1m) and 6.56' (2m) lengths. Supplied with between 1 and 10 screws, depending on the chosen length.



0.78" (20mm) .....	F2CH20
3.28' (1m).....	F2CH1000
6.56' (2m).....	F2CH2000

Rigid flanged channel

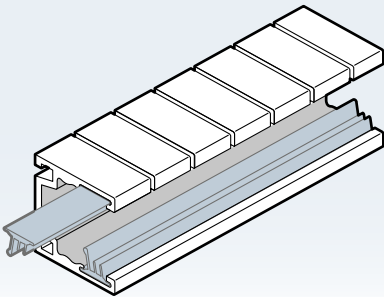
A rigid aluminum channel for straight Flex Tube runs, featuring a flanged edge for recessed applications. Available in 0.78" (20mm), 3.28' (1m) and 6.56' (2m) lengths. Supplied with between 1 and 10 screws, depending on the chosen length.



0.78" (20mm) .....	F2RCH20
3.28' (1m).....	F2RCH1000
6.56' (2m).....	F2RCH2000

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).....	F2FCH500
3.28' (1m).....	F2FCH1000



PROJECT

FIRM

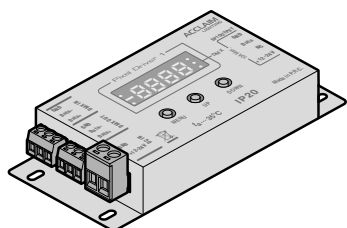
ORDER #

TYPE

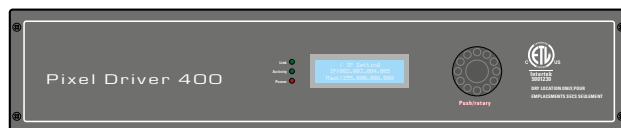
QTY

## Related components

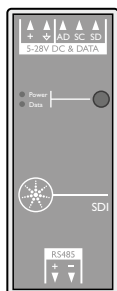
### Drivers and nodes



**Pixel Driver 1**  
**1x 5m spool** max  
 DMX input  
 24VDC power input (use in conjunction with ALPS-series 24VDC power supplies)  
 Part # **PIX001**



**Pixel Driver 400**  
**2x 5m spools or 4x 4.2m lengths** maximum  
 400W 24VDC; 8 SPI output ports  
 Art-Net input; 100-277VAC 50/60Hz  
 Part # **PIX400**



**Pharos SDI module**  
**1x 5m spool** maximum  
 RS485 input from EDN node  
 24VDC power input (use in conjunction with ALPS-series 24VDC power supplies)  
 Part # **SDI**



**Pharos EDN 10 or 20 nodes**  
**10 or 20 output ports (DMX or RS485)**  
 Art-Net input; 100-277VAC 50/60Hz  
 Part # **EDN 10** or **EDN 20**

### Controllers

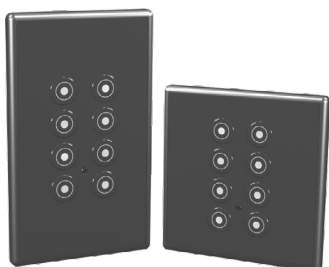


**VLC (for single zones)**  
**Video control for a single array / screen**  
 25,600 to 768,000 control channels  
 HD video via local media files or DVI-D input  
 Part # **VLC #\***



**LPC X (for multiple zones)**  
**Flexible, multi-location lighting control**  
 5,120 to 51,200 control channels  
 Program and pixel map via PC or Mac  
 Part # **LPC X #\***

### Trigger panels



**BPS**  
**8 button wall station for Pharos units**  
 LED indicator on each button; POE power; IR remote compatible. Multiple faceplate color options  
 Part # **BPS #\***



**TPS**  
**Customizable wall mount touch screen**  
 POE power, IR remote compatible. Configure using Pharos Designer software. Multiple faceplate color options  
 Part # **TPS #\***

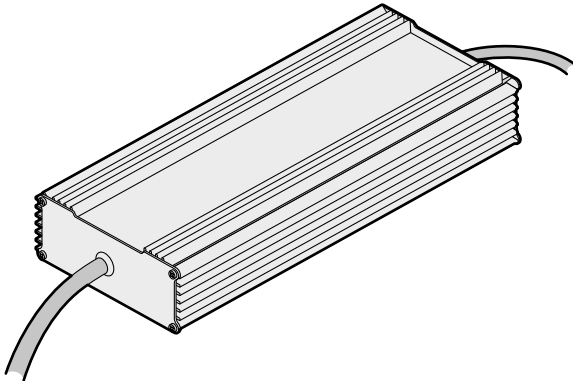
*\* please consult spec sheets for further ordering options.*

PROJECT FIRM ORDER # TYPE QTY

## Related components

### Power supplies (wet and dry locations)

*(for use with Pixel Driver 1 and SDI modules)*



#### ALPS-200-24

200W 24VDC

**1x 5m spool** maximum

IP66 ingress protection

100-277VAC 50/60Hz

Part # **ALPS-200-24**

#### ALPS-400-24

400W 24VDC

**3x 5m spools** maximum

IP66 ingress protection

100-277VAC 50/60Hz

Part # **ALPS-400-24**



PROJECT

FIRM

ORDER #

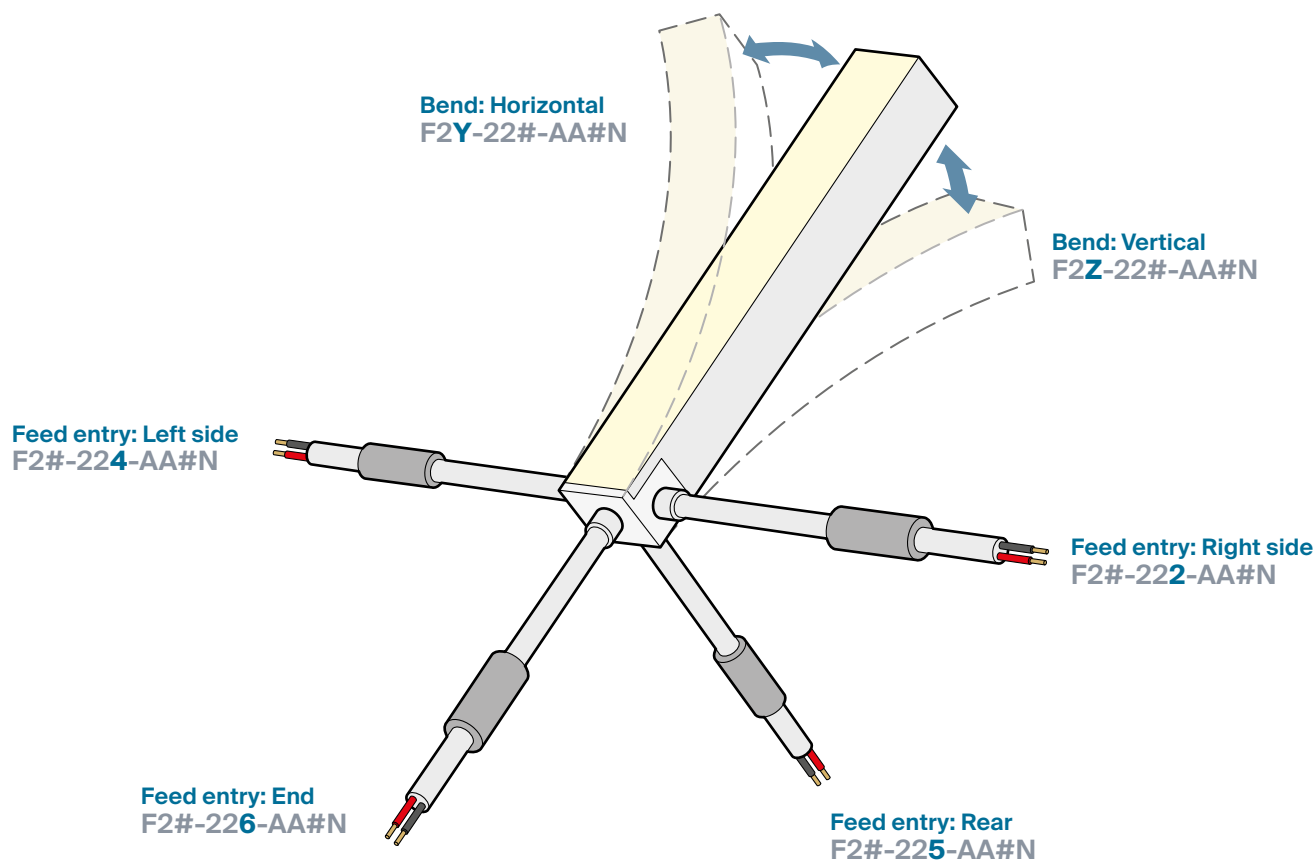
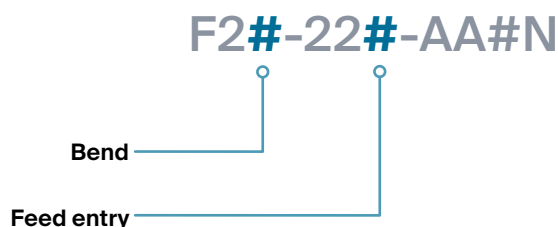
TYPE

QTY

## Bends and feed entries

Flex Tube Pixel G2 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 a driver unit must not exceed 32 feet (10m) due to the restrictions of the SPI signal specifications. We recommend 14 AWG 3-core cable (maximum current for a 16.4' (5m) spool is 5A @ 24VDC).





PROJECT

FIRM

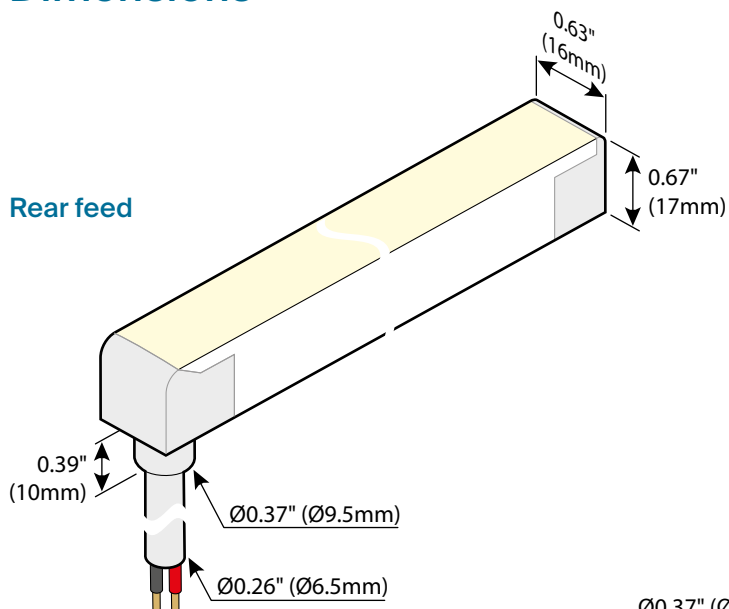
ORDER #

TYPE

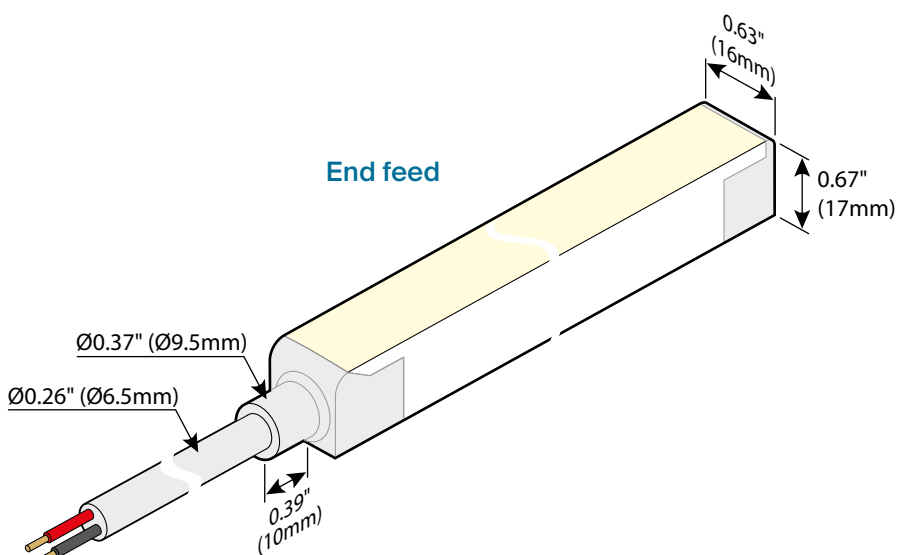
QTY

## Dimensions

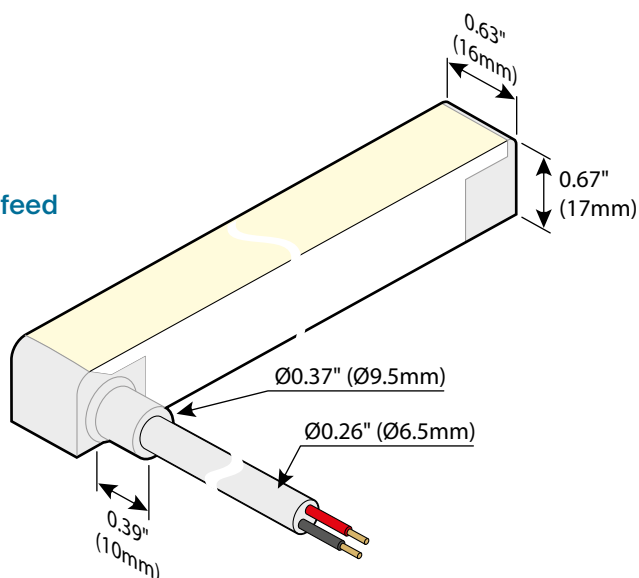
### Rear feed



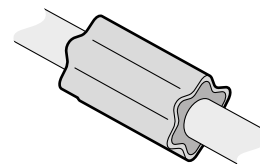
### End feed



### Side feed



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

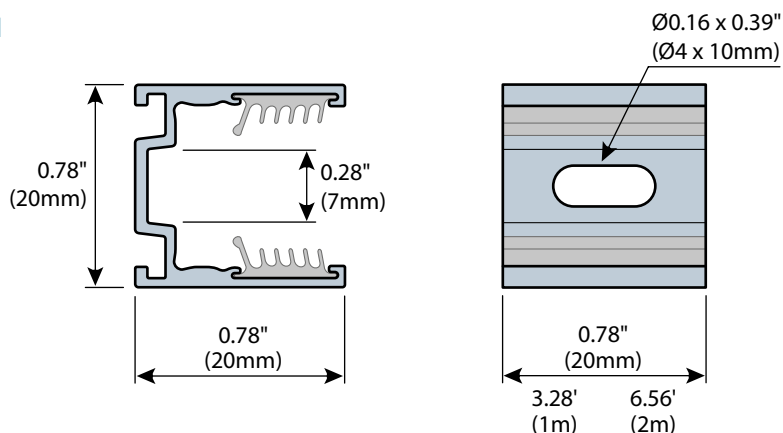
ORDER #

TYPE

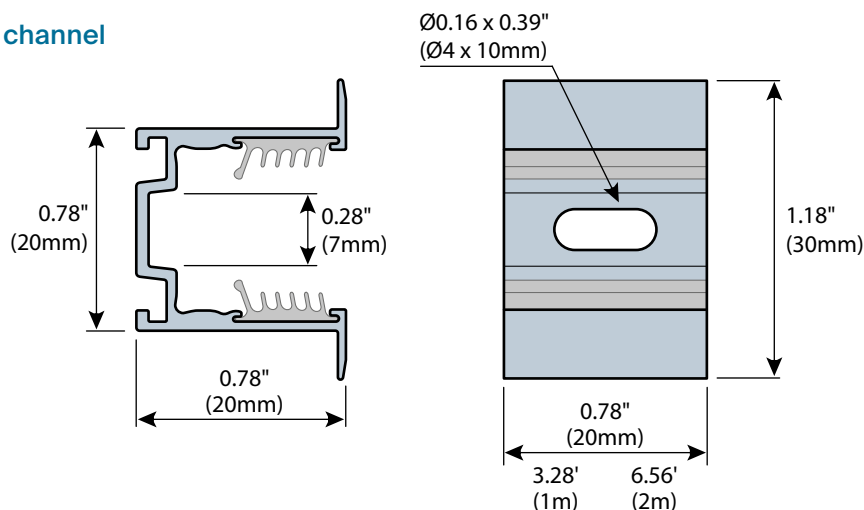
QTY

## Dimensions

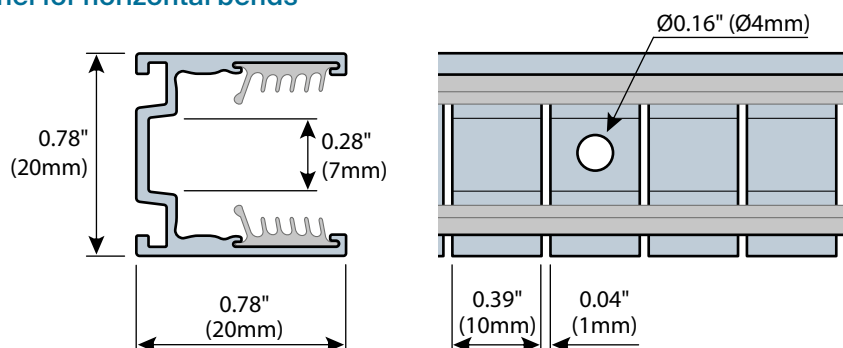
### Rigid channel



### Rigid flanged channel



### Flexible channel for horizontal bends



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

