

PROJECT

FIRM

ORDER #

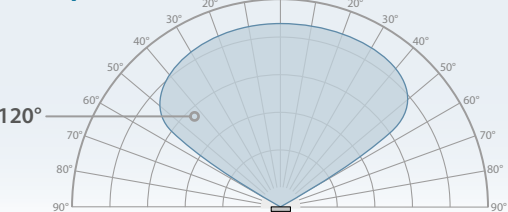
TYPE

QTY



Flex Tube SC G2™ is a low profile, exterior-rated linear LED strip with 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. 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 SC G2 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 SC G2 runs can also be integrated directly into mains-level dimming systems using our reverse/forward phase MLE dimmer drivers.

At a glance


Optics



Emitters

or or or or or or or or or or or or or or

2200K 2400K 2700K 3000K 3500K 4000K 5700K RED GREEN BLUE AMBER




Power

Low voltage:
24VDC
via driver


Consumption

3.65W* per foot
12W* per meter
**except red & amber:
2.43W per ft, 8W per m*


Temperature

-40° F to 131° F
-40° C to 55° C


Output

Up to
215 lumens
per linear foot


Protection

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

Configure your product

F2 -22 -Xnn A N

Example final code: **F2B-225-X126AEN**

Bending:
B = Horizontal
U = Vertical
See page 6 for details

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

Length:
Please see below

Emitters:
B = 2200K
C = 2400K
D = 2700K
E = 3000K
F = 3500K
G = 4000K
J = 5700K
M = Red
N = Green
O = Blue
P = Amber

Please specify the required length by quoting the number of sections:

- **Red and amber emitters:** Each section measures 3.28" (83.34mm). Quote a two-figure number between 02 and 84 (equating to lengths between 6.56" (166.6mm) and 22.96' (7m)).
- **All other emitters:** Each section measures 2.18" (55.56mm). Quote a two- or three- figure number between 02 and 126 (equating to lengths between 4.37" (111mm) and 22.96' (7m))

The number should immediately follow the 'X'. For example, for a 7m length (with horizontal bend, rear feed and 3000K emitters) the order code would be: **F2B-225-X126AEN**



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Specifications

Emitters	2200K, 2400K, 2700K, 3000K, 3500K, 4000K, 5700K, Red, Green, Blue or Amber
Optics	120°
Output	Up to 215 lumens per foot (80 CRI), 3-step SDCM
Lumen maintenance	L ₇₀ 50,000 hours (@ 25° C)
Control	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%)
Operating voltage	24VDC
Power consumption	3.65W per foot (12W per meter), except Red and Amber: 2.43W per foot (8W per meter)
Connection	16.4' (5m) injection molded feed cable with bare tails
Fixture lengths	Built to order lengths up to 22.96' (7m)
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	5.73 lbs (2.59 kg) for 7m spool
Dimensions	See page 7

Certifications



* UL approval limits submersible installation to non-human occupied and freshwater locations only. All cables must be landed in environmentally suitable junction boxes.

Photometrics (estimated)

For all available IES files, please visit acclaimlighting.com/flex-tube-sc-g2

Horizontal bend models					Vertical bend models			
Color temp. / color	Lumens (/ft)	Max Candela	CRI	TM30	Lumens (/ft)	Max Candela	CRI	TM30
2200K	149	47.5	80.7	83.1	-	-	-	-
2700K	157	52.5	83.1	81.8	182	61.3	83.4	81.7
3000K	154	49.1	86.2	86.2	187	62.7	85.3	83.7
3500K	155	49.1	84	84.9	189	63.5	82.0	82.8
4000K	151	50.5	84.1	83.7	183	61.1	84.5	84.9
5700K	151	47.9	84.3	83.2	188	63	83.3	82.4
Red	60	19.3	-	-	-	-	-	-
Green	182	58.4	-	-	215	69.4	-	-
Blue	38	12.6	-	-	43	15	-	-

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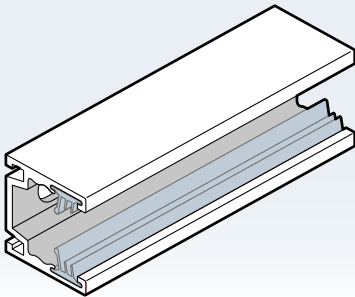
TYPE

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Related components *(channel dimensions on page 8)*

Rigid channel

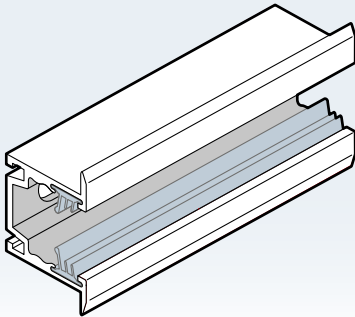
A rigid aluminum channel for straight Flex Tube runs. Available in 0.78" (20mm), 3.28' (1m) and 6.56' (2m) lengths. Supplied with between 1 and 10 screws, depending on the chosen length.



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

Rigid flanged channel

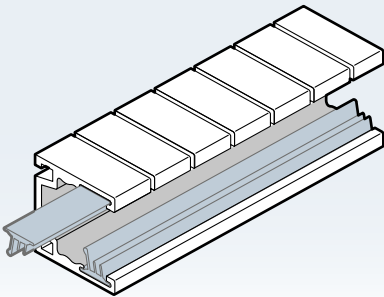
A rigid aluminum channel for straight Flex Tube runs, featuring a flanged edge for recessed applications. Available in 0.78" (20mm), 3.28' (1m) and 6.56' (2m) lengths. Supplied with between 1 and 10 screws, depending on the chosen length.



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



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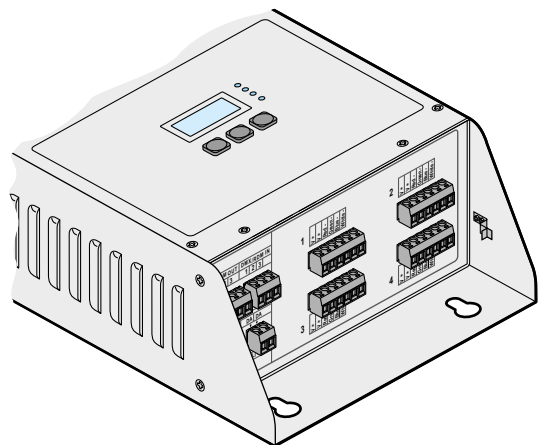
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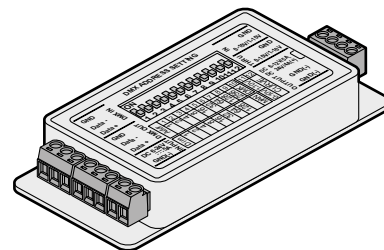
Related components

Drivers



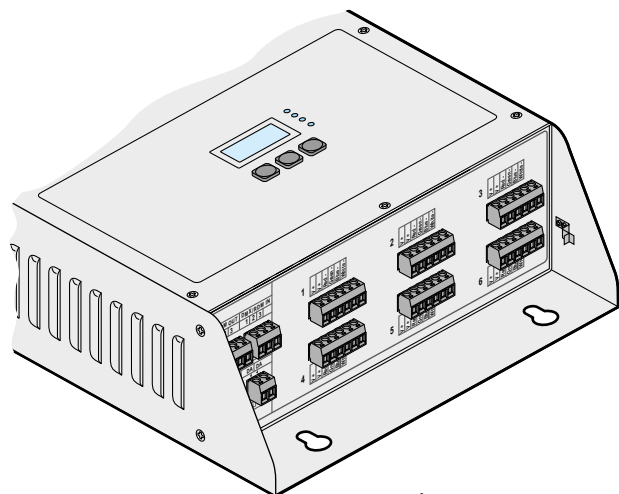
AL Driver 200 C2

200W 24VDC
4 output ports
2x 7m spools maximum
DMX, DALI or 0-10V
(sink or source)
Class 2 compliant
100-277VAC 50/60Hz
Part # **ALD-200-24 C2**



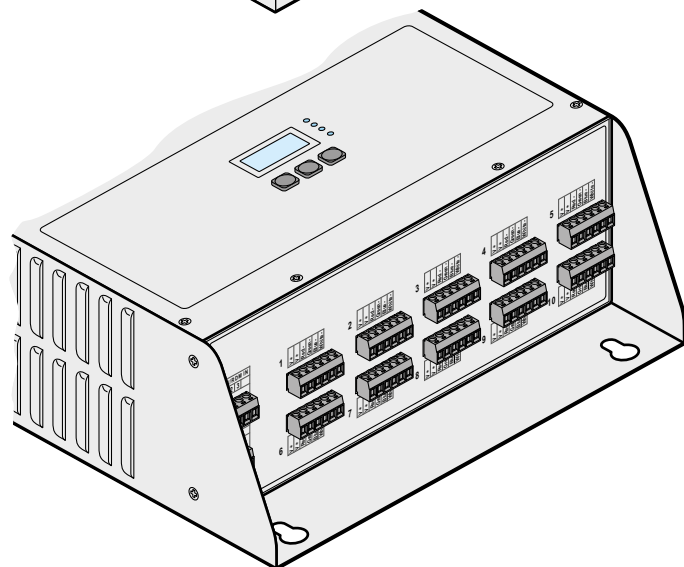
AL Driver 1

1x 7m spool
maximum
DMX or 0-10V
(sink or source)
6-24VDC input (use
in conjunction with
ALPS-series 24VDC
power supplies)
Part # **ALD001**



AL Driver 400 C2

400W 24VDC
6 output ports
4x 7m 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
8x 7m spools maximum
DMX, DALI or 0-10V
(sink or source)
Class 2 compliant
100-277VAC 50/60Hz
Part # **ALD-800-24 C2**

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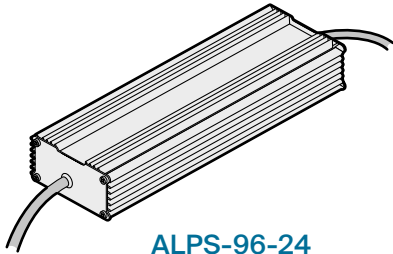
TYPE

QTY

Related components

Power supplies (wet and dry locations)

(for use with single channel drivers or non dimming applications)



ALPS-96-24

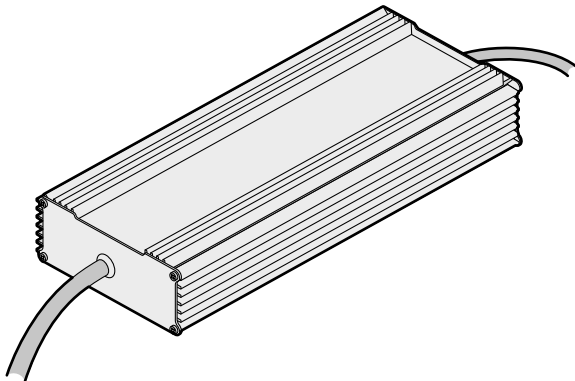
96W 24VDC

1x 7m spool maximum

IP66 ingress protection

100-277VAC 50/60Hz

Part # **ALPS-96-24**



ALPS-200-24

200W 24VDC

2x 7m spools maximum

IP66 ingress protection

100-277VAC 50/60Hz

Part # **ALPS-200-24**

ALPS-400-24

400W 24VDC

4x 7m spools maximum

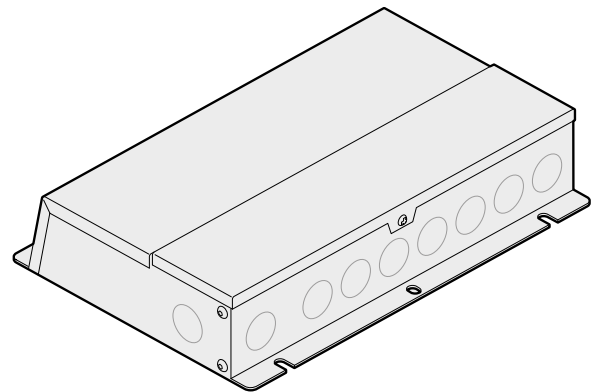
IP66 ingress protection

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 7m spool maximum

Part # **MLE96-24DC-UD**

2x 96W (192W total) 24VDC

2x 7m spools maximum

Part # **MLE192-24DC-UD**

3x 96W (288W total) 24VDC

3x 7m spools maximum

Part # **MLE288-24DC-UD**

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Bends and feed entries

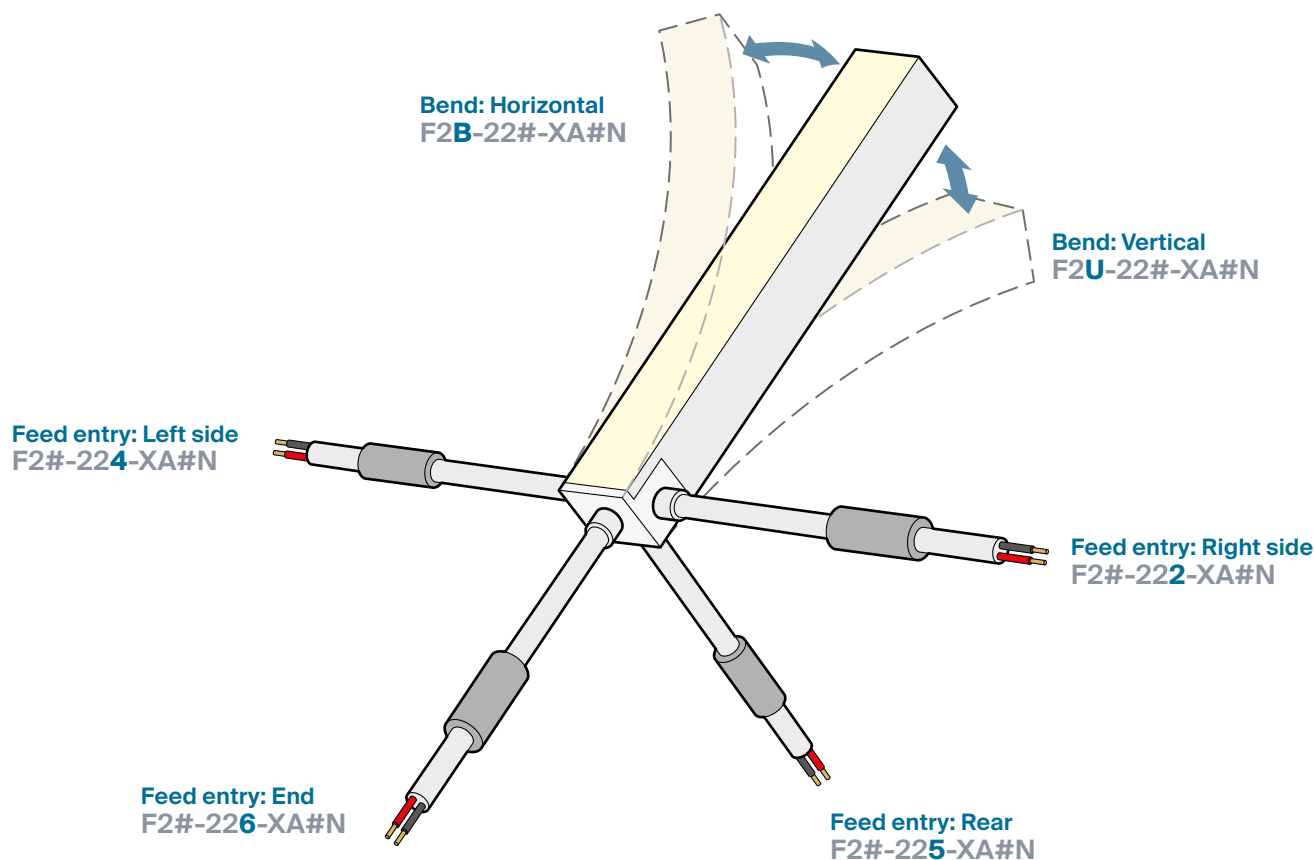
Flex Tube SC G2 strips are available with two bend options and four choices of power feed entries, which can be mixed in any combination to suit your installation.

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

F2#-22#-XA#N

Bend

Feed entry



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 (0.823mm²)
- Up to 100 feet (30.5m) 14 AWG (2.081mm²)
- Up to 170 feet (51.8m) 12 AWG (3.309mm²)

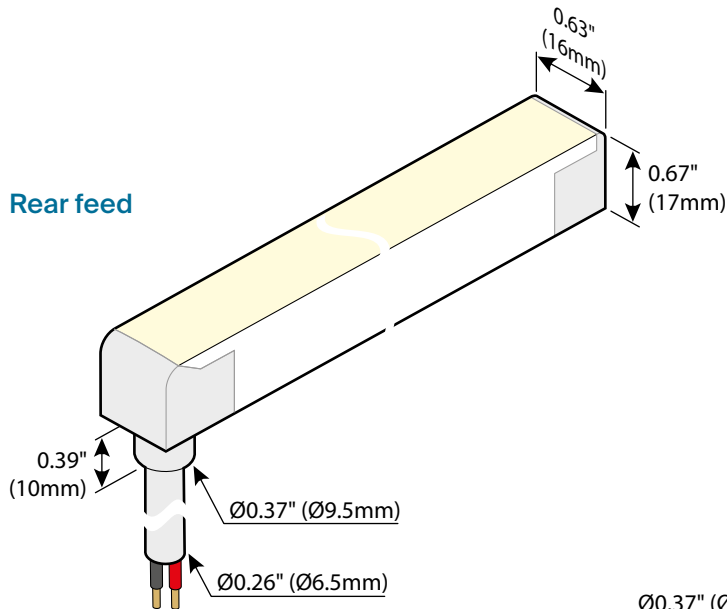
In all cases, ensure that the voltage drop at the fixture end of the link cable is no greater than 8% (1.92V) of the original 24VDC supply.



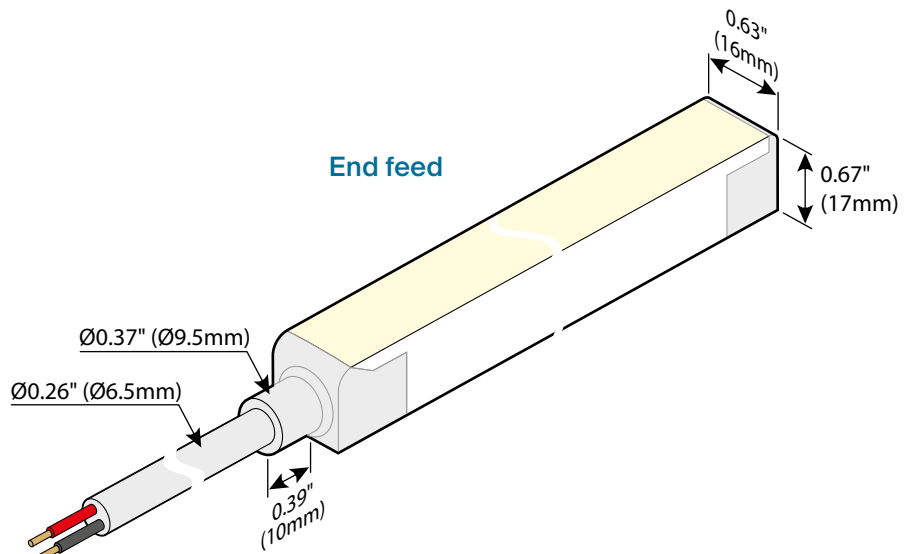
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Dimensions

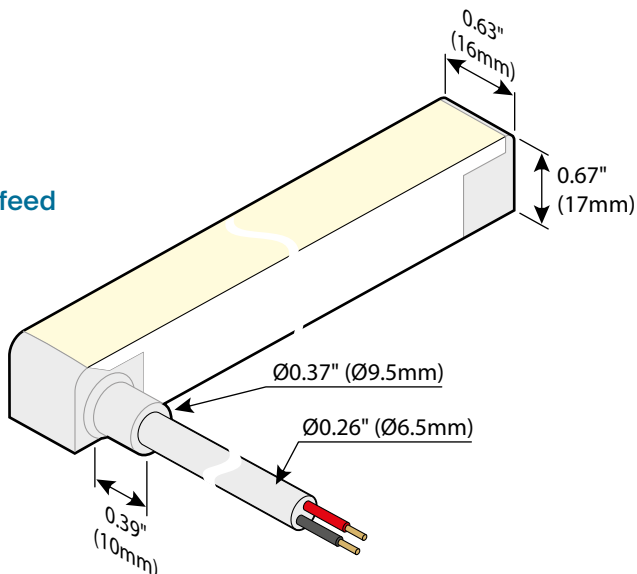
Rear feed



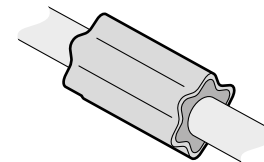
End feed



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)



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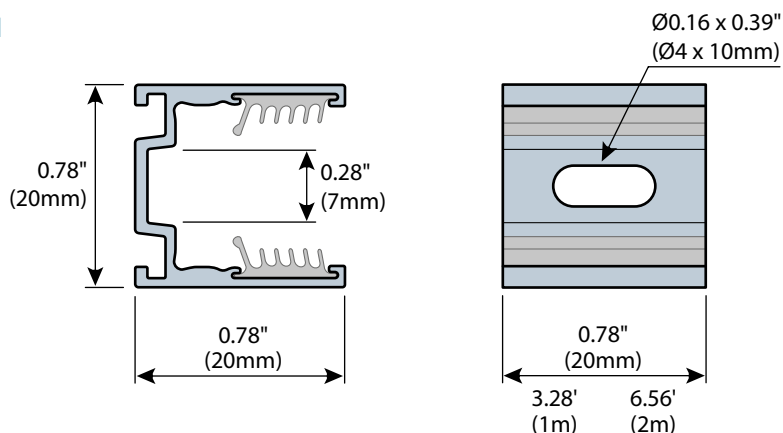
ORDER #

TYPE

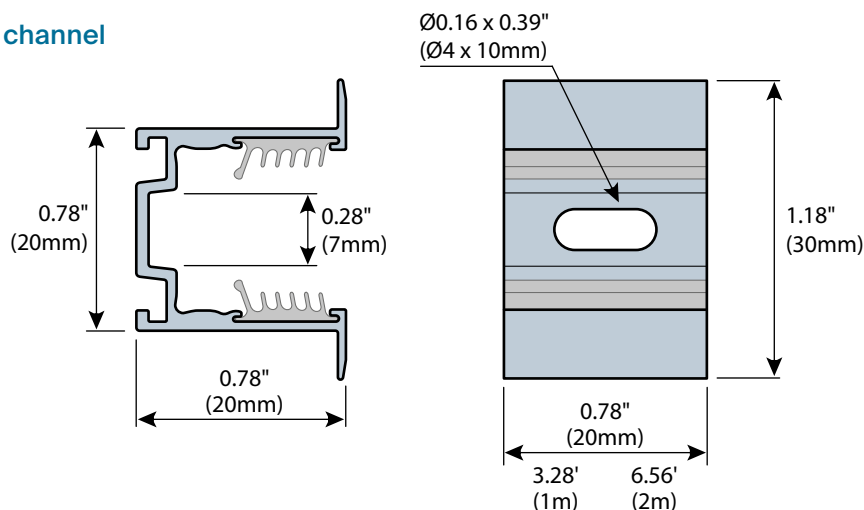
QTY

Dimensions

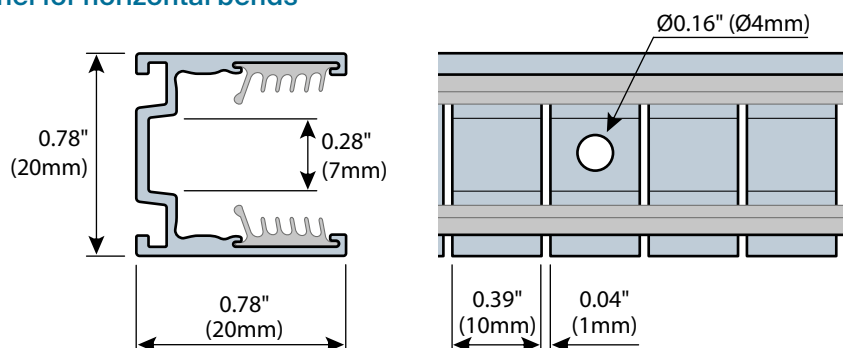
Rigid channel



Rigid flanged channel



Flexible channel for horizontal bends



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

