

PROJECT

FIRM

ORDER #

TYPE

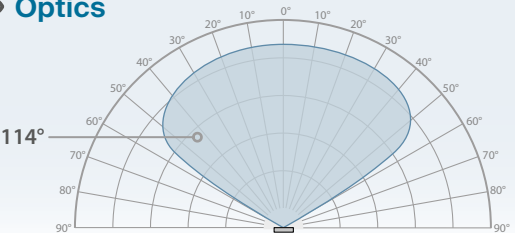
QTY



Flex Tube HO SC™ is a low profile, high output, 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. Matching aluminum channels perfectly compliment Flex Tube HO SC 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 HO SC runs can also be integrated directly into mains-level dimming systems using our reverse/forward phase MLE dimmer drivers.

At a glance


Optics



Emitters

2200K

or

2700K

or

3000K

or

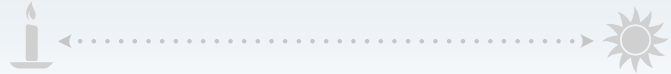
3500K

or

4000K

or

5700K




Power

Low voltage:
24VDC
via driver


Consumption

5.5W per foot
18W per meter


Temperature

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


Output

Up to
515 lumens
per linear foot


Protection

Ingress: **IP68**
Impact: **IK10**
Vibration: **3G**

Configure your product

FX

-22

-Xnn

N

Example final code: **FXB-225-X90AEN**

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 ¹

Feed style:
A = Bare wire tails only
C = Bare wire tails plus connectors ²

Emitters:
B = 2200K
D = 2700K
E = 3000K
F = 3500K
G = 4000K
J = 5700K



¹ please specify the required length by quoting the number of 2.18" (55.56mm) sections as a two-figure number between 03 and 90 (equating to lengths between 6.57" (167mm) and 16.4' (5m)). The two-figure number should immediately follow the 'X'. For example, for a 5m length (with horizontal bend, rear feed, bare wire tails and 3000K emitters) the order code would be: **FXB-225-X90AEN**

² special order (see page 7)

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Specifications

Emitters	2200K, 2700K, 3000K, 3500K, 4000K or 5700K
Optics	114°
Output	Up to 515 lumens per foot (80 CRI)
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	5.5W per linear foot (18W per linear meter), 90W per 16.4' (5m) spool
Connection	16.4' (5m) injection molded feed cable with bare tails. Optional IP68 outdoor connectors available
Fixture lengths	Built to order lengths from 6.57" (167mm) to 16.4' (5m). Section points every 2.18" (55.56mm)
Minimum bends	Separate model options with vertical or horizontal bend. Minimum bend radius: 15.74" (400mm)
Mounting	Press-fit aluminum channels in various lengths: 0.78" (20mm), 3.28' (1m) or 6.5' (2m)
Material	UV, solvent and flame 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	IK10, protection against 20 joule impact (40cm distance)
Vibration protection	ANSI C136.31, 3G-rated for high vibration and bridge applications
Warranty	5 years, limited
Weight	5.5 lbs (2.5 kg) for 5m spool
Dimensions	See page 8

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-ho

Color temperature	Lumens (/ft) Horizontal bend models	Lumens (/ft) Vertical bend models	Minimum CRI
2200K	412	427	80
2700K	419	455	80
3000K	427	473	80
3500K	435	503	80
4000K	427	515	80
5700K	412	473	80

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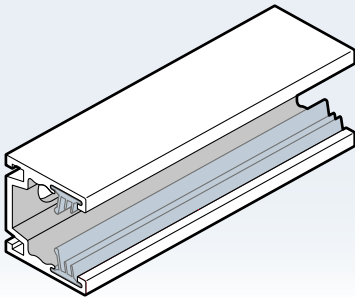
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Related components *(channel dimensions on page 9)*

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.



For horizontal bend versions

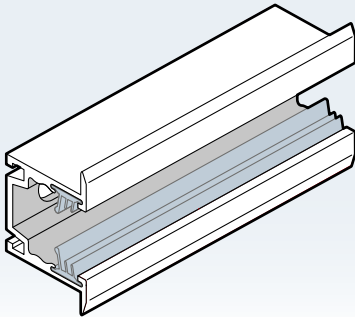
0.78" (20mm)	FXBCH20
3.28' (1m).....	FXBCH1000
6.56' (2m).....	FXBCH2000

For vertical bend versions

0.78" (20mm)	FXUCH20
3.28' (1m).....	FXUCH1000
6.56' (2m).....	FXUCH2000

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.



For horizontal bend versions

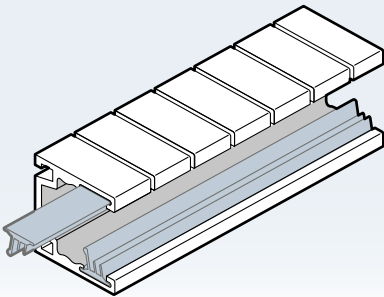
0.78" (20mm)	FXBRCH20
3.28' (1m).....	FXBRCH1000
6.56' (2m).....	FXBRCH2000

For vertical bend versions

0.78" (20mm)	FXURCH20
3.28' (1m).....	FXURCH1000
6.56' (2m).....	FXURCH2000

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).....	FXBFCH500
3.28' (1m).....	FXBFCH1000



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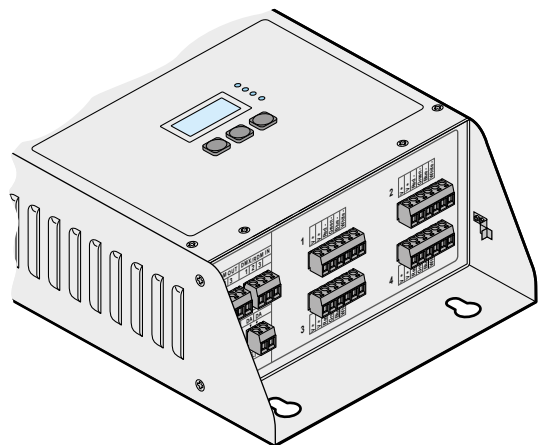
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TYPE

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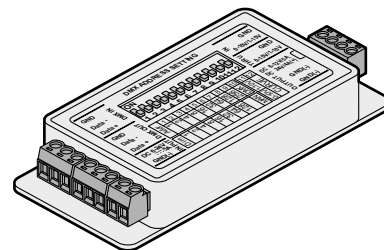
Related components

Drivers



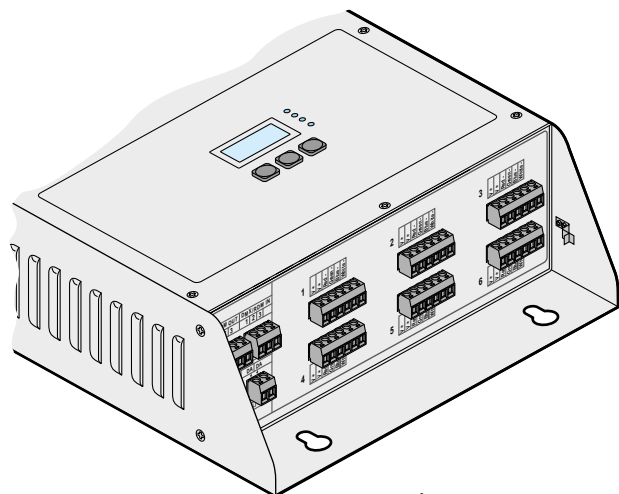
AL Driver 200 C2

200W 24VDC
4 output ports
2x 5m spools maximum
DMX, DALI or 0-10V
(sink or source)
Class 2 compliant
100-277VAC 50/60Hz
Part # **ALD-200-24 C2**



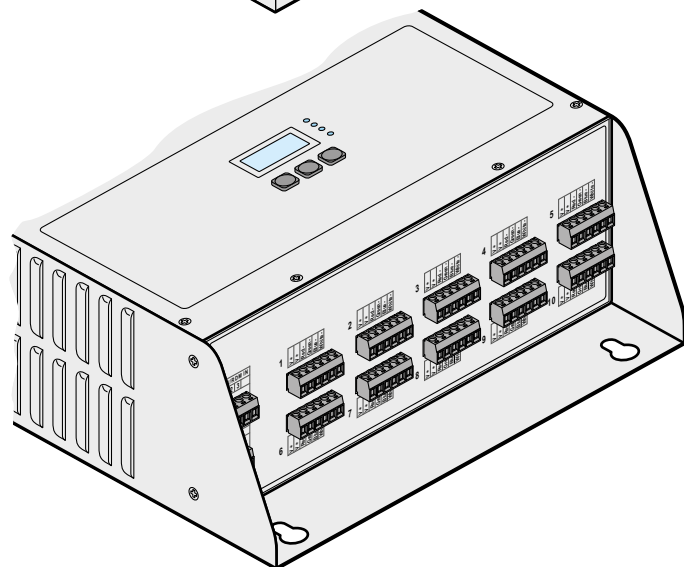
AL Driver 1

1x 5m 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 5m 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 5m 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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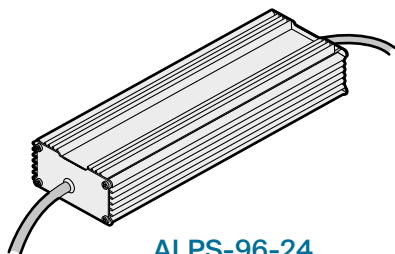
TYPE

QTY

Related components

Power supplies (wet and dry locations)

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



ALPS-96-24

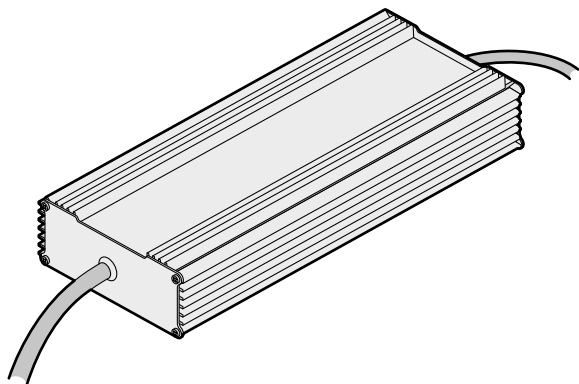
96W 24VDC

1x 5m spool maximum

IP66 ingress protection

100-277VAC 50/60Hz

Part # **ALPS-96-24**



ALPS-200-24

200W 24VDC

2x 5m spools maximum

IP66 ingress protection

100-277VAC 50/60Hz

Part # **ALPS-200-24**

ALPS-400-24

400W 24VDC

4x 5m spools maximum

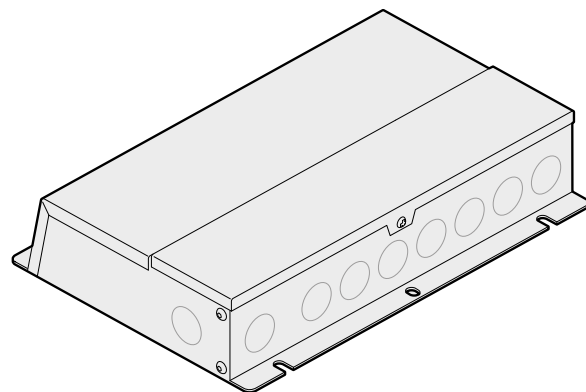
IP66 ingress protection

100-277VAC 50/60Hz

Part # **ALPS-400-24**

Mains (and 0-10V) dimmable drivers

(to allow Flex Tube HO SC 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 5m spool maximum

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

2x 96W (192W total) 24VDC

2x 5m spools maximum

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

3x 96W (288W total) 24VDC

3x 5m spools maximum

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

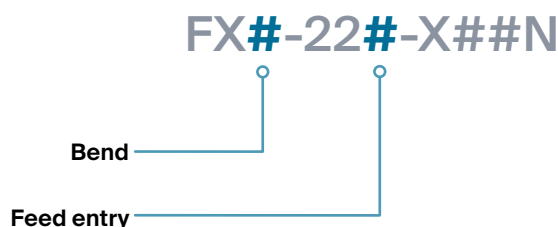
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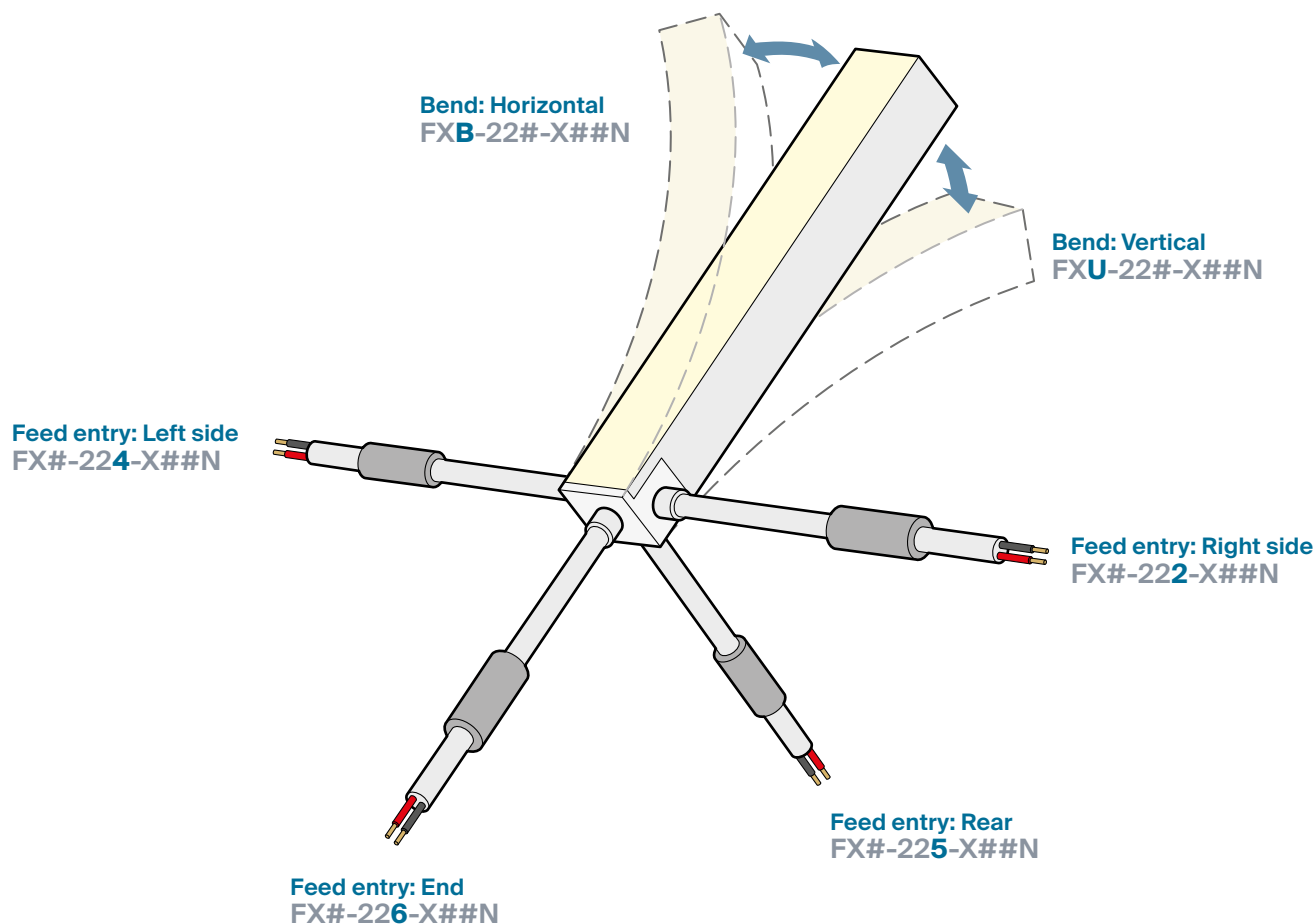
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Bends and feed entries

Flex Tube HO SC strips are available with two bend options, four choices of power feed entries as well as two feed cable style options (see “Feed styles” on page 7), which can be mixed in any combination to suit your installation.



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



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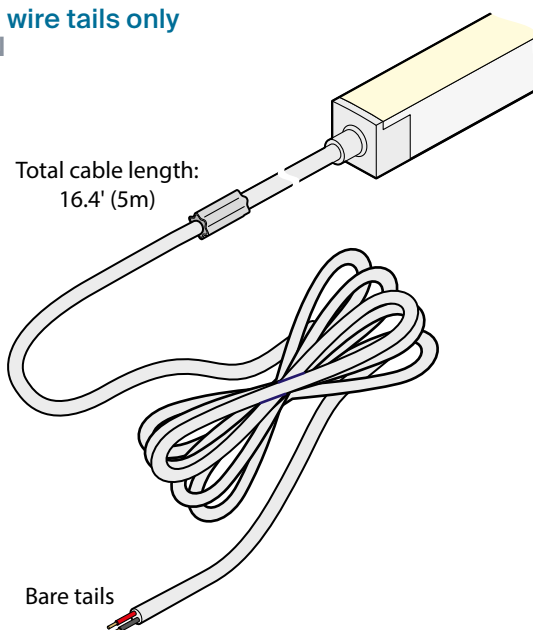
QTY

Feed styles

Flex Tube HO SC strips can be supplied either with a simple fixed feed cable or a feed cable that also has integral IP68-rated connectors. Both options terminate with bare wire tails.

Feed style: Bare wire tails only

FX#-22#-XA#N



FX#-22#-X##N

Feed style

Link cable guidelines

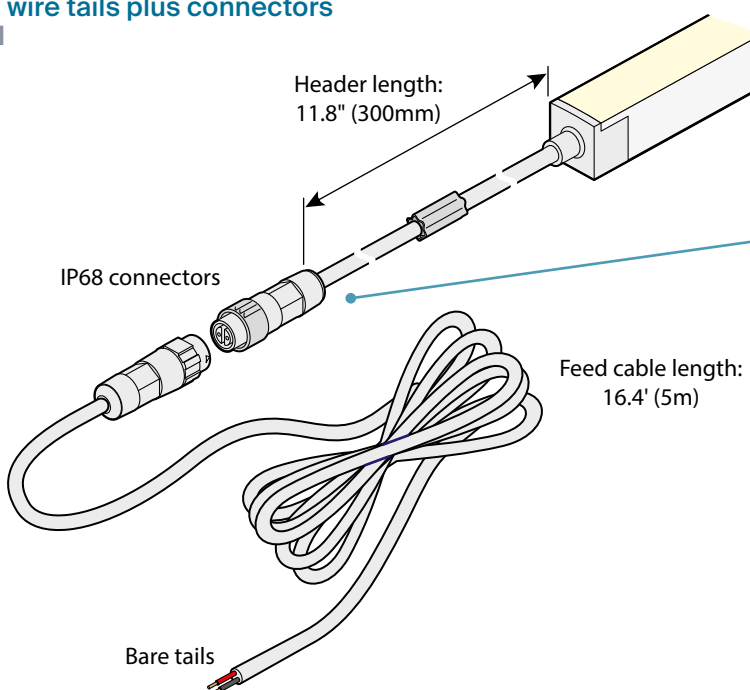
Connection cable extensions used to link Flex Tubes to the power/driver unit should follow these guidelines:

- 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)

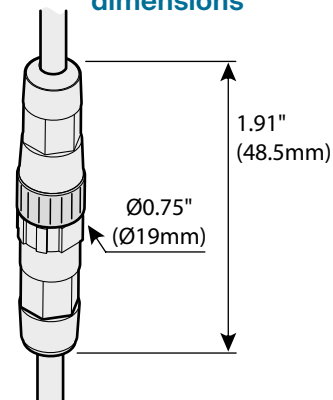
In all cases, ensure that the voltage drop at the fixture end of the link cable is no greater than 8% (1.92V) of the original 24VDC supply.

Feed style: Bare wire tails plus connectors

FX#-22#-XC#N



IP68 connector dimensions


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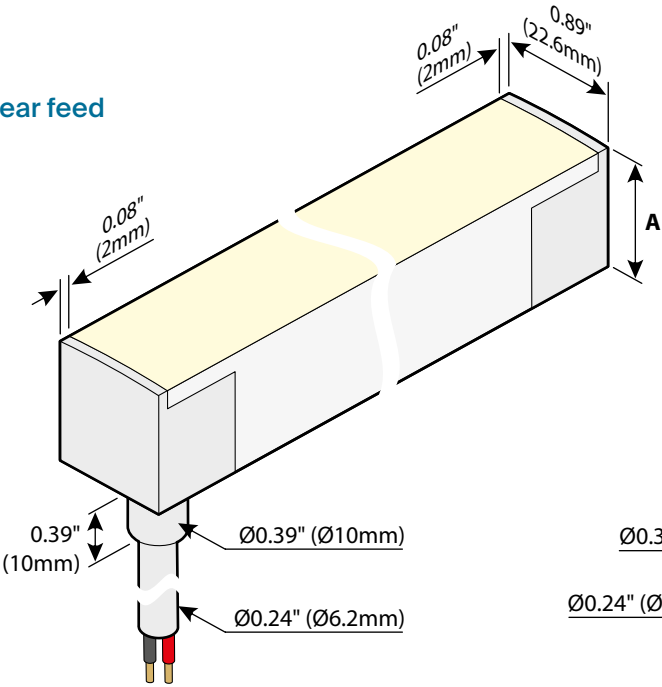
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TYPE

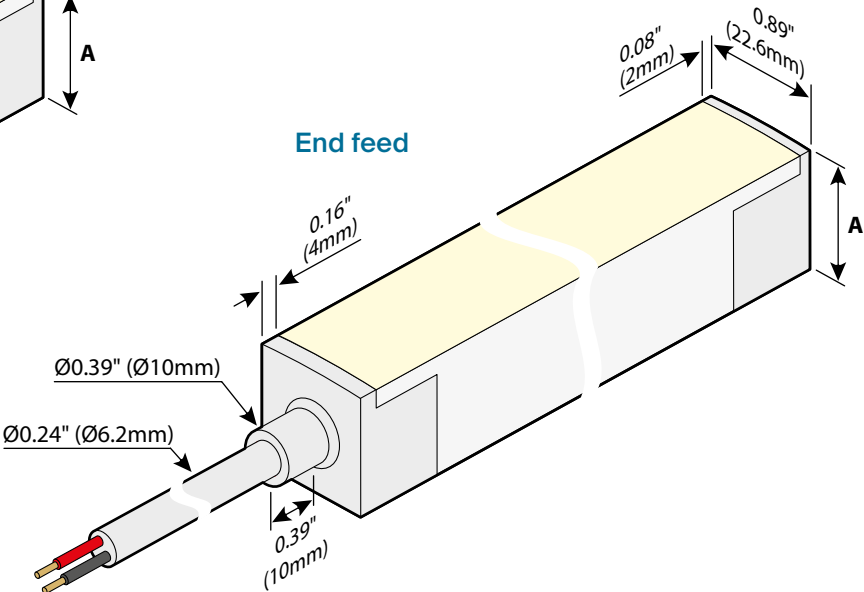
QTY

Dimensions

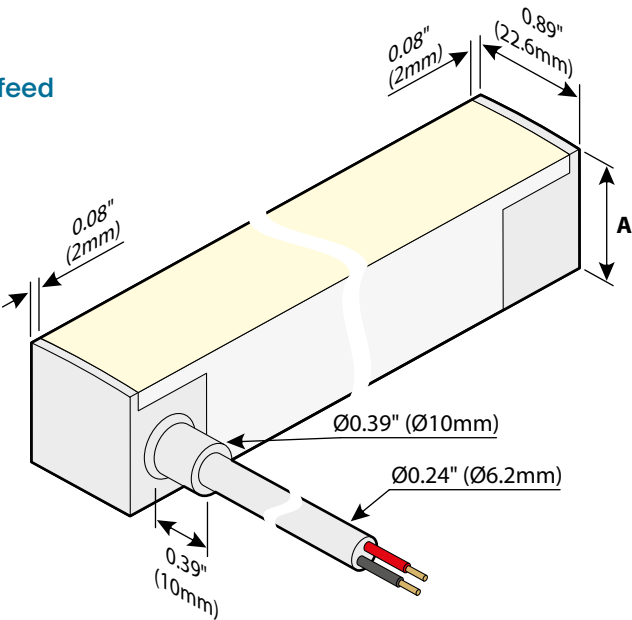
Rear feed



End feed

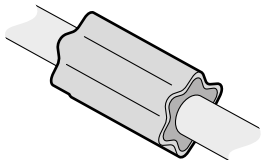


Side feed



Dimension	Horizontal bend models	Vertical bend models
A	0.88" (22.3mm)	0.76" (19.3mm)

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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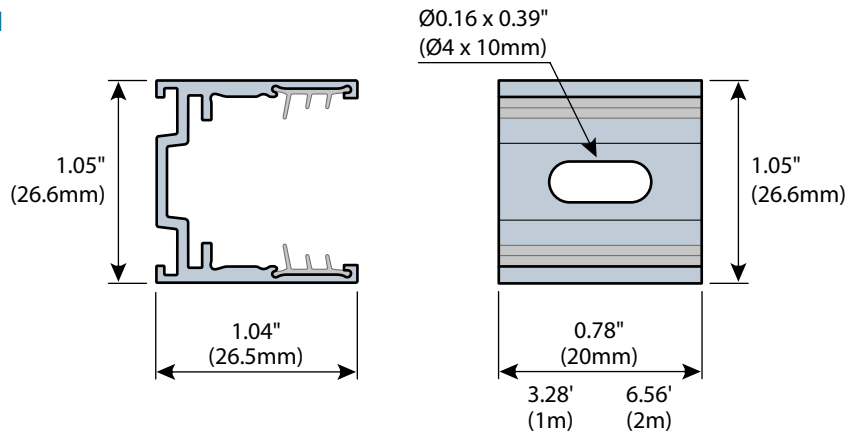
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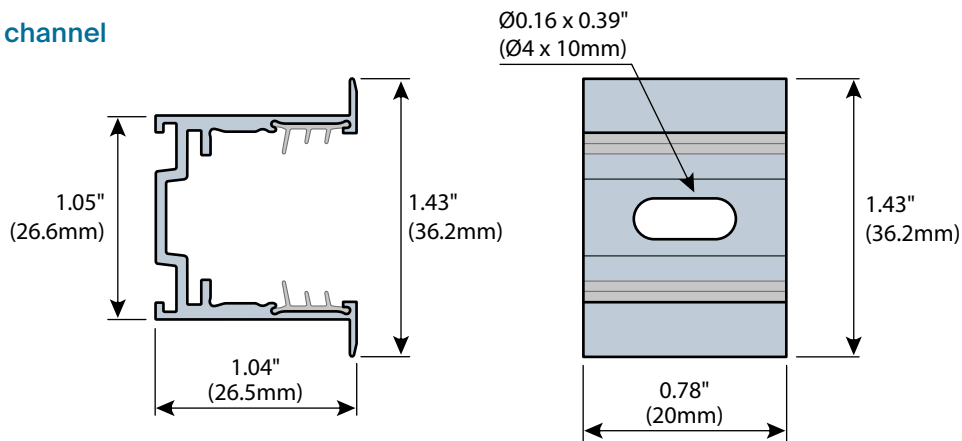
QTY

Dimensions

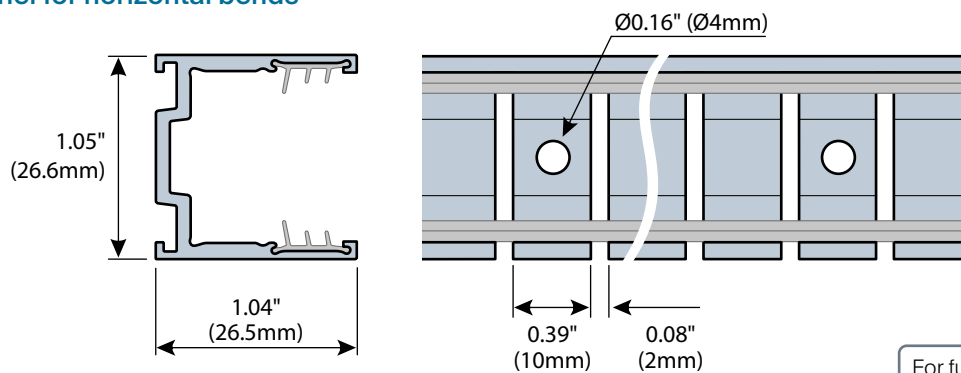
Rigid channel



Rigid flanged channel



Flexible channel for horizontal bends



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

