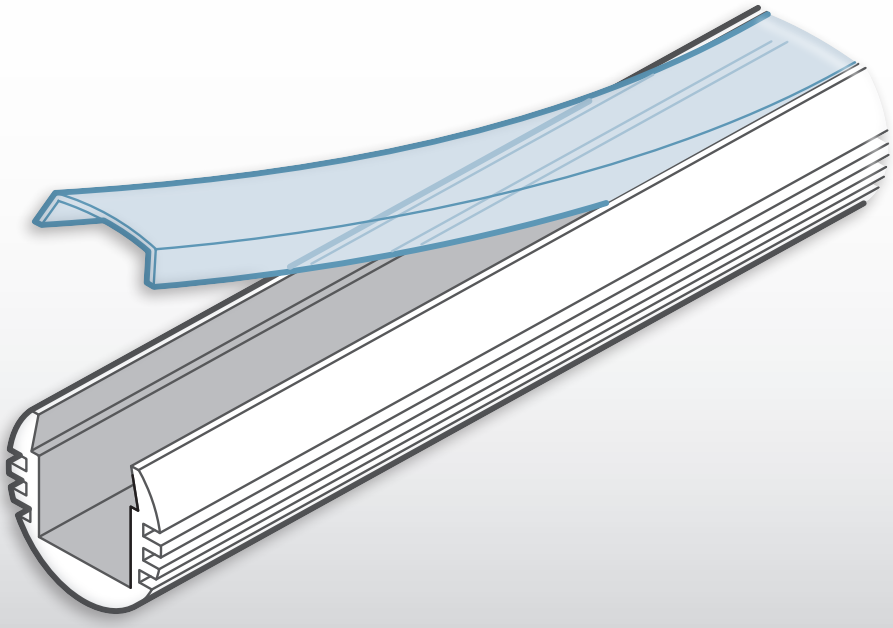
Acclaim™



Flex Pendant Channel

User guide

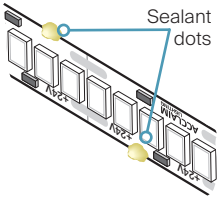
Installation

Mounting

Flex Interior tapes are supplied with 3M™ VHB acrylic adhesive backing, protected by a peel-off paper liner. To ensure that good adhesion is achieved, ensure the mounting surface is free of grease, moisture and any contaminates.

When mounting on the sides or undersides of surfaces

We recommend that you add small dots of silicone sealant along both sides of the Flex tape (to overlap the tape edge and mounting surface) using Dow Corning® 799, 1199 or equivalent. This will provide additional stability and help to prevent any separation of the tape from the mounting surface over time. The silicone dots are best applied once the tape is fixed in place; then the whole installation should not be disturbed until it the sealant has fully cured.



Cleaning and preparing the mounting surface

Most substrates are best prepared by cleaning with a 50:50 mixture of isopropyl alcohol (IPA) and water* prior to applying the tape. Exceptions to this general procedure that may require additional surface preparation include:

Heavy oils

A degreaser or solvent-based cleaner* (such as 3M™ Prep Solvent 70, 3M™ Citrus Base Cleaner, mineral spirits, naphtha or similar, subject to suitability for the surface material) may be required to remove heavy oil or grease from a surface and should be followed by cleaning with IPA/water*.

Other contamination or oxidation

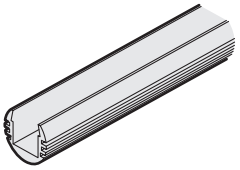
Abrading a surface, followed by cleaning with IPA/water*, can remove heavy dirt or oxidation (e.g. galvanized steel) and can increase surface area to improve adhesion. Abrasion often also helps adhesion to paints and plastics. Very small scratches in the surface, generated with circular motion rather than straight-line motion, are most desirable.

** Note: These cleaner solutions contain greater than 250 g/l of volatile organic compounds (VOC). Please consult your local Air Quality Regulations to be sure the cleaner is compliant. When using solvents, be sure to follow the manufacturer's precautions and directions for use when handling such materials.*

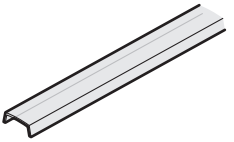
Flex pendant channel (FLK PEN)

The Flex pendant channel can be mounted from fixed steel rods, stainless wire or against a flat surface. Conductive end caps or fasteners can be used to transfer power via the supportive wires or rods. Clear, opal and frosted lens options are available.

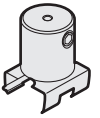
Options



Flex pendant channel
(3.28' / 1m)
[FLK PEN]



Lenses (3.28' / 1m)
[Clear: FLK MFC]
[Frosted: FLK MFL]
[Opal: FLK MOL]



Conductive fastener
[FLK PEN CF]

S. steel mounting bracket
[FLK SMB]

Steel rod with threaded ends
[1.64' / 0.5m: FLK PEN SR05]
[3.28' / 1m: FLK PEN SR1]

Stainless steel wire
[3.28' / 1m:
FLK PEN SSW1]

End cap
[FLK PEN EC]

End cap with hole
[FLK PEN ECH]

Conductive end cap
[FLK PEN CEC]

To fit the Flex tape

1 If necessary, cut the channel to the length required. Ensure that any resulting burrs are removed.

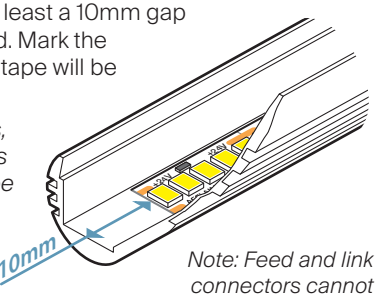
2 Ensure the tape mounting surface within the channel is completely dry, clean and free of grease.

3 Determine the length of tape required. Leave at least a 10mm gap at each end to allow the end caps to be inserted. Mark the positions at each end of the channel where the tape will be placed.

Note: Flex tape can be cut only at certain points, which may slightly constrain the precise lengths of tape that can be achieved. Therefore it may be beneficial to center the tape within the channel to achieve an even distribution.

4 Cut the tape to the nearest marked cutpoint.

5 Begin peeling the backing from the Flex tape and carefully stick the Flex tape into the channel, starting at the marked position.



Note: Feed and link connectors cannot be fitted inside this channel.

IMPORTANT: While pressing the Flex tape into position, take care not to put excessive pressure on the components or connections.

To surface mount

1 Fit the Flex tape to the channel.

2 At the end where the connection will take place, fit an *End cap with hole*.

3 Feed the link cables through the end cap and carefully solder to the contact pads, if necessary.

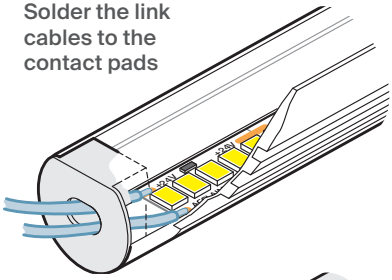
4 At the other end of the channel, fit a standard *End cap*.

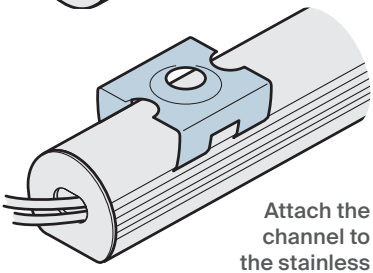
5 Fit the required lens (see page 5).

6 Attach two or more *Stainless steel mounting brackets* to the mounting surface using screws appropriate to the surface type.

7 Clip the pendant channel into the mounting brackets using the slot closest to the rounded back of the channel.

Solder the link cables to the contact pads





Attach the channel to the stainless steel mounting brackets

Note: Ensure sufficient strain relief where the cables enter the channel.

To suspend using conductive end caps

1 Fit the Flex tape to the channel.

2 At each end, fit a *Conductive end cap.*

3 At each end, solder the copper tab of the conductive end cap to the tape contact pad with which it aligns. One end must connect to the +24V pad while the other end links with the 0V pad.

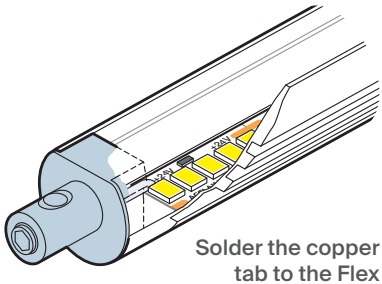
If the end of the Flex tape is more than 11mm from the pendant channel edge you will need to use additional wire to bridge the gap between the copper tab and the contact pad.

Note: Ensure the copper tab (and additional wire) are fully insulated from the channel surface.

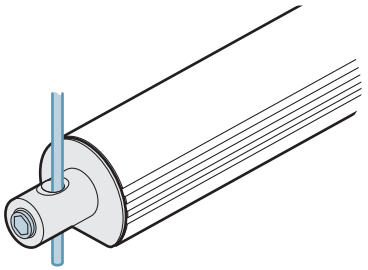
4 Make a note of the polarity of the connections at each end and fit the required lens (see page 5).

5 Drop the two steel wires/rods from their ceiling mounts and thread each into the holes within the conductive end caps. Double check that the polarities at each end match those supplied by the two steel wires/rods.

6 Establish the required height of the pendant channel and use a 3mm hex key to tighten the clamps so the channel is horizontal (using a spirit level) and fully secure.



Solder the copper tab to the Flex contact pad



Thread the steel wire/rod and secure using a 3mm hex key

To suspend using conductive fasteners

1 Fit the Flex tape to the channel.

2 At each end, fit an *End cap with hole.*

3 At each end, feed a link cable through the end cap and carefully solder to the contact pad.

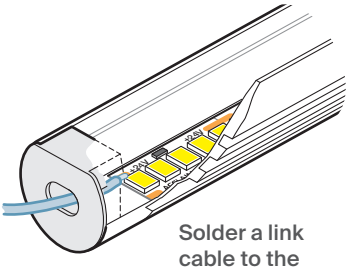
Note: One end must connect to the +24V pad while the other end links with the 0V pad.

4 At each end, fit a *Conductive fastener* and solder the link cable to the copper tab.

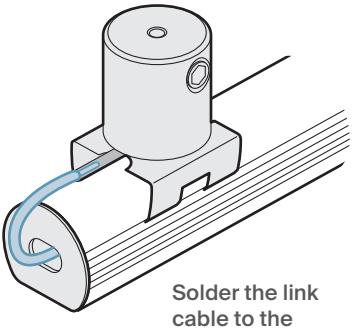
5 Make a note of the polarity of the connections at each end and fit the required lens (see page 5).

6 Secure the two steel wires/rods to their ceiling mounts and thread each into the holes within the conductive fasteners. Double check that the polarities at each end match those supplied by the steel wires/rods.

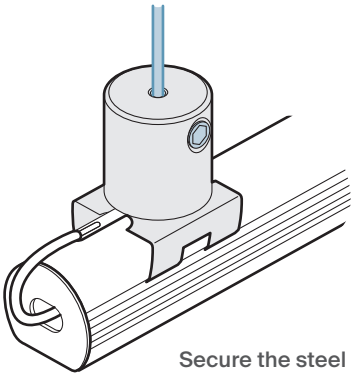
7 Establish the required height of the pendant channel and use a 3mm hex key to tighten the clamps so the channel is horizontal (using a spirit level) and fully secure.



Solder a link cable to the contact pad at each end



Solder the link cable to the copper tab of the conductive fastener



Secure the steel wire/rod using a 3mm hex key

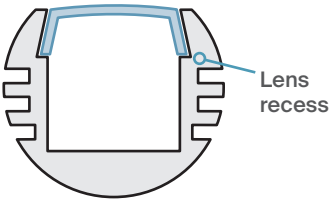
To fit a lens

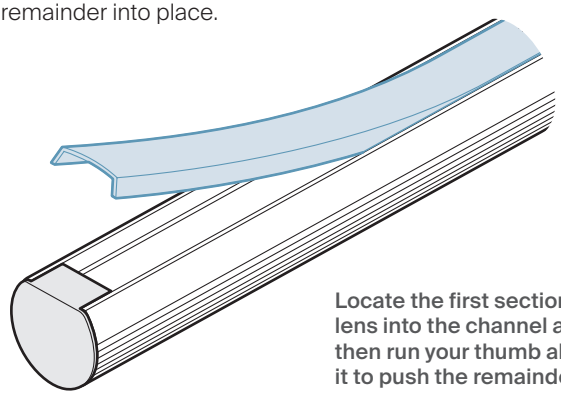
1 Measure the exact length of lens required between the end caps at each end of the channel.

2 Carefully cut the lens to length. Ensure that any resulting burrs are removed.

3 Insert one end of the lens against one of the end caps so that it locates into the 'Lens recess' within the channel (see right).

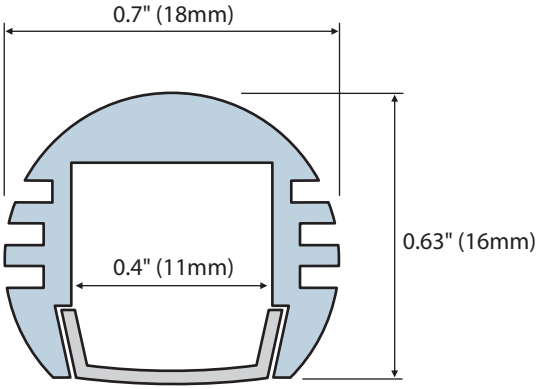
4 Once the first part of the lens has correctly located, run your thumb gently along the length of the lens to push the remainder into place.





Locate the first section of lens into the channel and then run your thumb along it to push the remainder into place.

Dimensions



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