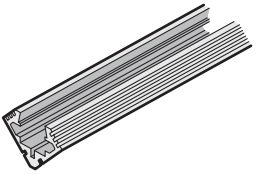
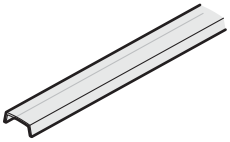
FLEX 45 DEGREE CHANNEL (FLK 45D)

This low profile channel holds the Flex One tape at 45 degrees to the mounting surface. The Flex One 45 degree channel can be wall/ceiling mounted or alternatively suspended by wires or rods - with the option of power delivery via the suspension wires/rods. Clear, opal and frosted lens options are available. For channel dimensions, see page 40.

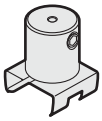
Options



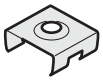
Flex 45 degree channel
(3.28' / 1m)
[FLK 45D]



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



Conductive fastener
[FLK 45D CF]



Zinc mounting bracket
[FLK 45D ZMB]

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 45D EC]

End cap with hole
[FLK 45D ECH]

TO FIT THE FLEX ONE TAPE

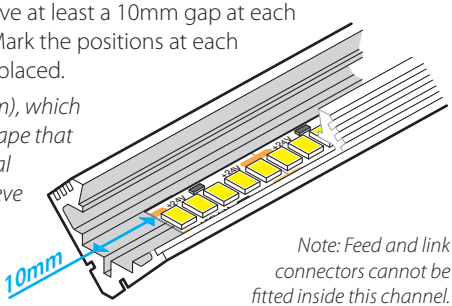
1 If necessary, cut the channel to the length required. Ensure that any resulting burrs are removed.

2 Ensure the tape mounting surface within the channel is completely dry, clean and free of grease. If cleaning is required, please see page 4 for details.

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 One tape can be cut every 1" (25mm), 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.



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

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

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

TO SURFACE MOUNT

1 Fit the Flex One tape to the channel (see Page 15).

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

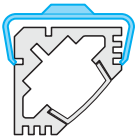
3 Feed the link cables through the end cap and carefully solder to the contact pads, if necessary (see page 5).

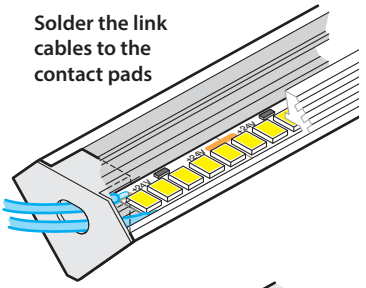
4 At the other end of the channel, fit a standard *End cap*.

5 Fit the required lens (see below).

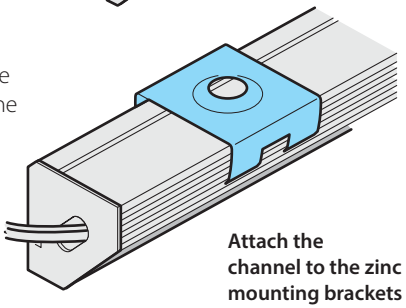
6 Attach two or more *Zinc mounting brackets* to the mounting surface using screws appropriate to the surface type.

7 Clip the channel into the mounting brackets using the slots shown here:





Solder the link cables to the contact pads



Attach the channel to the zinc mounting brackets

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

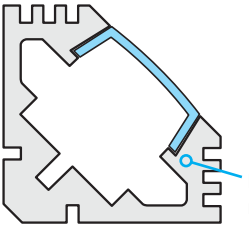
TO FIT A LENS

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

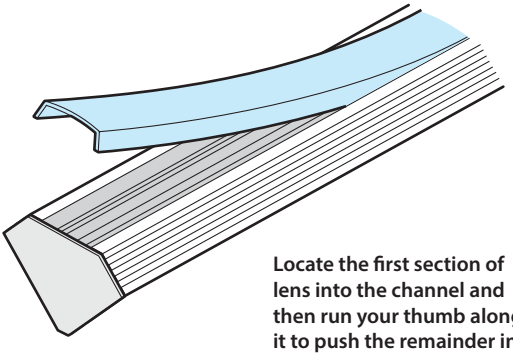
2 Carefully cut the lens to length. Ensure that any resulting burrs are removed.

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.



Lens recess



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

TO SUSPEND USING CONDUCTIVE FASTENERS

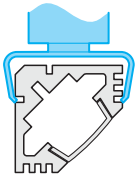
1 Fit the Flex One tape to the channel (see Page 15).

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 (see page 5).

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

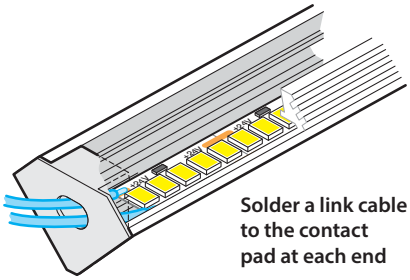
4 At each end, fit a *Conductive fastener* using the slots shown here: and solder the link cable to the copper tab.



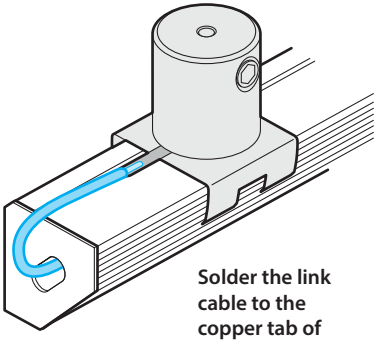
5 Make a note of the polarity of the connections at each end and fit the required lens (see Page 16).

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.

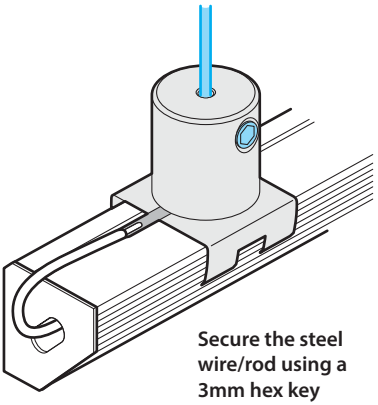
7 Establish the required height of the pendant channel and use a 3mm hex key to tighten the clamps so the channel is horizontal (using a spirit level) and fully secure.



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