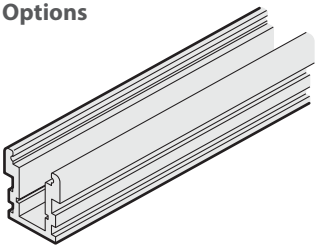
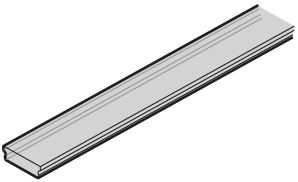
FLEX EXTERIOR LINE CHANNEL (FLK EXL)

This sturdy anodized aluminum channel allows the Flex One tape to be recessed into Exterior surfaces and is rated for walk-over installations. Thanks to the increased thickness of its profile, the channel can withstand pressures of up to 2.9psi (20kN/m^2). To achieve effective IP67 water ingress protection it is necessary to use Dow Corning® 799, 1199 (or equivalent) silicone sealant to form complete seals between the channel and its UV coated lens - plus any cable access holes. For channel dimensions, see page 18.

Options

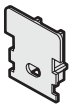


Flex Exterior line channel
(3.28' / 1m)
[FLK EXL]



Exterior line opal lens
(3.28' / 1m)
[FLK EXL OL]

End cap
[FLK EXL EC]



End cap with hole
[FLK EXL ECH]

TO FIT THE FLEX ONE TAPE

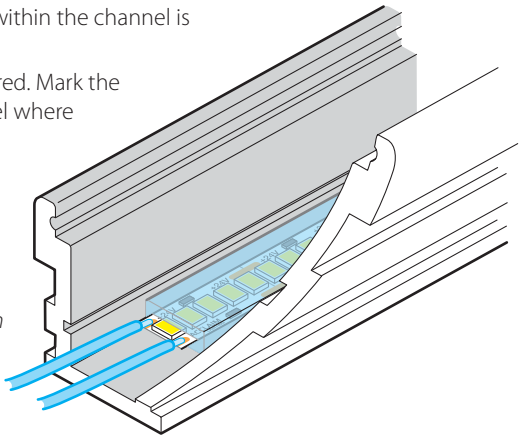
Note: The molded feed cap fitted on each spool is too large to fit within the channel. In order to achieve a fully sealed installation within the channel, it will be necessary to remove the molded connection and solder new feed wires directly to the nearest cut line. See page 5.

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

2 Ensure the tape mounting surface within the channel is completely dry and clean.

3 Determine the length of tape required. 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.

5 Carefully push the tape into the channel, starting at the marked position. The tape's size will cause an interference fit within the channel, keeping it in place without adhesive.

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

6 Use Dow Corning® 799, 1199 (or equivalent) silicone sealant to fully encapsulate the feed connections to protect against any moisture ingress.

TO RECESS IN GROUND

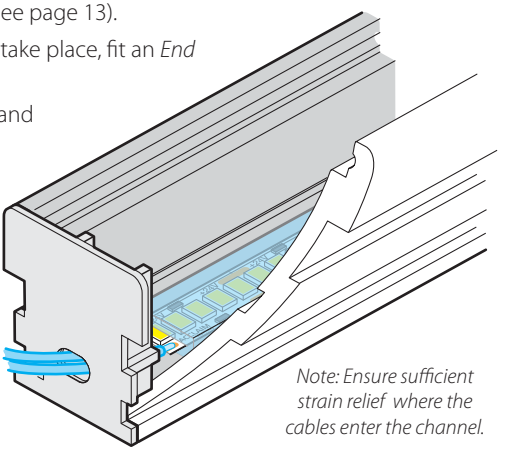
1 Fit the Flex One tape to the channel (see page 13).

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

3 Feed the 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 To ensure long term protection against water ingress, coat all internal end cap seams with a bead of sealant (Dow Corning® 799, 1199 or equivalent). Pay particular attention to the cable entry point.



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

6 Fit and seal the required lens (see below).

7 Place the sealed tape/channel assembly into the prepared ground recess.

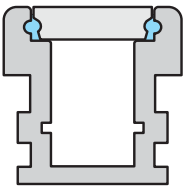
TO FIT THE LENS

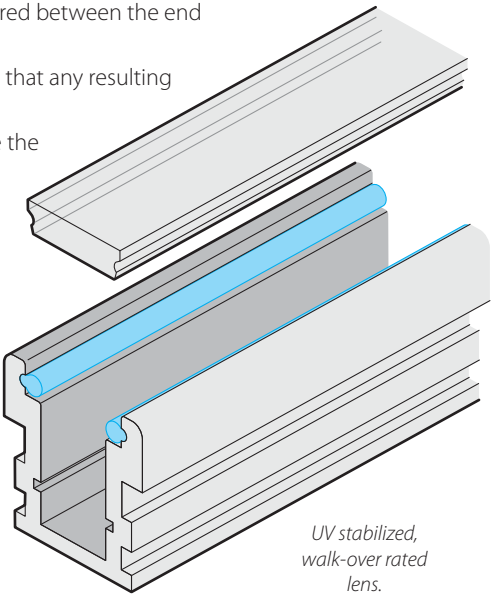
1 Measure the exact length of lens required between the end caps at each end of the channel.

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

3 Along each side of the channel (where the lens will sit) carefully run a thin bead of sealant (Dow Corning® 799, 1199 or equivalent). The bead should be large enough in diameter to ensure a good seal between the channel and the lens, but not so much that excess sealant runs into the channel and contaminates the lens inner face.

4 Determine the correct orientation of the lens - it has a wider outer face and a slightly narrower inner face.





UV stabilized, walk-over rated lens.

5 Carefully lower the lens onto the beads of sealant and ensure that it fully seats in place. Wipe away any excess sealant.

6 Apply further sealant between the lens and the end caps.