



INSTRUCTIONS FOR MAKING A BUSBAR

- 1) Cut the exact width needed for your piece of Smart Film first.
- 2) Then cut one side of the length at a 90 degree angle, perpendicular with the width.
- 3) Leave other end of the length longer than the size needed for install.
(To account for error in case the bus bar is not manufactured correctly the first time.)
- 4) Measure out how long your bus bar will be according to the width of the piece.
(You can manufacture your bus bars to be as close or as far apart from each other as needed.)
- 5) Next clean the Polymer off of the exposed ITO layer using alcohol, and a micro-fiber cloth.
- 6) Then flip your piece over and repeat these steps again.
- 7) Once completed you should have an exposed area on both layers of Smart Film.
- 8) Then use your hi-temp resistance tape to provide a protective border for your conductive silver paste.
- 9) Then using a small brush, paint on the conductive silver paste in a thin consistent thorough layer.
- 10) Remove the tape leaving behind a smooth edge, use a heat gun on 800-1000 degrees to expedite dry time.
- 11) Once the paste is dried, align your copper tape with your now dried silver stripe.
- 12) Flip your piece over and repeat the last few steps, so that both exposed ITO layers are identical.
- 13) Then solder your leads directly onto your BUSBAR. Make sure that the solder is as flat as possible for laminating purposes.
- 14) Test the Smart Film Self Adhesive and the Smart Film Laminate Film at the end of every

cut order and wiring to always make
sure that all connections are good.