

## Bolin Starlight IP66 NEMA enclosure by Videstra

Your Bolin SDP Cameras each come with a specially created outdoor IP66 rated NEMA enclosure with pole mounts suitable for towers or non-penetrating roof mount poles to host the cameras umbilical cable. There are several connectors on this umbilical cable, however only the RJ45 connector will be used in a typical Videstra® managed Micro Local camera installation where video is accessed through IP.

### POE

The RJ45 connector on the umbilical also acts as the power connection for this camera through a POE (Power Over Ethernet) connection. The power is provided by either an Axis Q62 90 Watt POE High Power Midspan, or a BL-PP97 High Power (97W) POE Injector.



*Note: These POE injectors are class 2 devices and must remain indoors.*

### Umbilical Details

There are several connections on the Bolin umbilical cable. Only the RJ45 connection will be used. However, the cable must always be protected within an IP66 environment. Videstra has provided an IP66 NEMA enclosure with two IP66 cable glands and pole mounting hardware to host the umbilical cable safely and securely.



Insertion of the Bolin umbilical should be done carefully. Note that most cables with bare ends are capped and should remain so.

To properly pass the umbilical through the cable gland always start with the large connectors first – the RJ45 being the largest one, you should start with it. Followed by the remaining larger connectors one at a time. The small wires will pass easily once all the larger connectors are inside the NEMA enclosure.

**Note:** *This may take a little patience.*

The Bolin Umbilical has a large rubber stress reliever that may only *partially* fit through the Cable Gland. Even though it may only partially fit – it will still form an IP66 Seal if you place the rubber inner ring from the gland around the Bolin Stress reliever and then insert it into the Cable Gland as far as it will go. You will have to finesse this into the Gland.



A network cable *without a protective cover* will fit easily through the second cable gland. If your cable has a protective cover or a latch guard you may need to remove it.

You may need to put some electrical tape on the portion of the ethernet cable that will be directly sealed by the gland if it will not close sufficiently.





The application of a small amount of silicone grease will further insure against moisture and water ingress.

### Two Surge Suppressors

There is a POE Enabled Gas-Discharge surge suppressor inside the NEMA enclosure.

Note: *This should be placed in-line between the camera and the POE Injector.*



This provides a path to ground for the Shielded Ethernet cable as well. A suitable ground should be connected to the external ground post on the NEMA box.

Ground wire is provided with the Bolin Broadcast kit along with several types of wire lugs.

A second, identical surge suppressor is also provided for installation at the indoor demarcation point for the camera. It too should be connected to a suitable ground.

A small, black, UV resistant wire-tie should be used to seal the NEMA enclosure after mounting.



### Grounding

A ground post is provided. This post provides grounding for the surge suppressor inside the NEMA enclosure as well as grounding for the backplane of the enclosure.



**Note: *No automatic grounding through the pole mount is provided – you must ground using the grounding post!***