



### PT PCB Tail for LED Power/Signal

#### BACKGROUND

An LED integrated solutions company required a power and signal connector for an outdoor advertising application. This company needed a connector with PC tails that could mount to an LED board and hold up in harsh environments.

#### PROBLEM

The old design utilized plastic connectors which could not withstand the high mating cycles required for this application. In addition, the plastic connector had a low locking force with its hex nut which did not lend itself well to environmental sealing.

#### AIO SOLUTION

Amphenol Technology Shenzhen designed a PT jam nut with PC tail contacts, using an anodized shell. By doing this the customer would have a connector that could resist severe corrosion from salt spray exposure up to 500 hours. The mating cycle rating would be significantly higher (500+) than a plastic connector and have an IP67 rating. Additionally, we provided them a cost savings solution by packaging the connector with an ATS supplied cable assembly.