

SOLVING WATER INGRESSION WITH CUSTOM OVERMOLDING

CUSTOMER CHALLENGE

Our client, a prominent player in the dairy industry, faced recurring wire harness failures. The initial design relied on heat shrink to cover the connectors from water damage. However, this approach resulted in frequent warranty claims and operational disruptions throughout their supply chain. To tackle this issue effectively, our client approached ACI for a custom solution.

ACI SOLUTION

After research and development, ACI designed an overmold for the connector as a solution. The overmolded connectors had several crucial advantages over the customer's original design, including the ability to incorporate color coding for improved operations and maintenance. By overmolding the connector and bonding to the wire the connection now had a protective layer of durable material that provided complete protection against corrosion, water, dirt, and other environmental factors. This ensured reliable and long-lasting connections that addressed the customer's challenges.

BENEFITS

ROBUST PROTECTION

The overmolded connectors provided complete protection against corrosion and moisture, ensuring uninterrupted operations and minimizing supply chain disruptions.

LONG-TERM COST SAVINGS

By reducing warranty claims and maintenance costs, the implementation of overmolded connectors led to significant long-term savings for our client.

IMPROVED EQUIPMENT QUALITY

The overmolded connectors significantly reduced defects and failures, resulting in higher end-customer satisfaction and an enhanced brand reputation.

