

Down Hole Drilling Connector Solutions

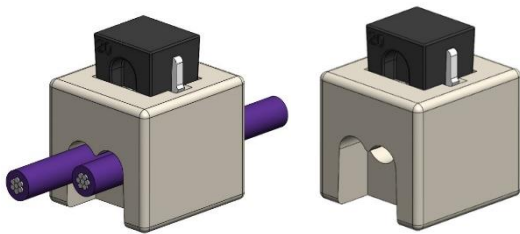
Heavy shock and vibration in the downhole drilling industry requires a secure bond between the wire(s) and connector. In this environment customers will choose our Insulation Displacement Connector or IDC technology. This style of connector creates a “gas tight” cold welded termination, ensuring that it can withstand the conditions commonly seen in these applications.

A custom solution is typical in these situations as well (A, B, and C). With our background and experience in this market we excel in creating a modified standard connector to exceed our customers’ requirements.

Insulation Displacement Connector (IDC)

- Wire does not require stripping.
- Automotive levels of shock and vibration
- Accepts solid or stranded wires: 12-30 AWG
- Can be potted or over molded for sealing.
- Wire to board or wire to wire applications.

NEW CATALOG PART: 9179 IDC SPLICE



Kyocera-AVX developed the 9179 IDC Splice connector as a solution to join two wires. It has been rapidly adopted due to its features in the down hole drilling market.

This connector gives customers the ability to splice together two different size wires ranging from 18-24 AWG. Rated for up to 10 amps with an operating temperature of -40°C to +125°C.



Creating a custom solution that solves multiple problems may take several iterations. The design progression below shows off our capabilities that led to the current solution for one of our down hole drilling customers.

The customer went through multiple designs of their product. This forced us to be flexible and develop multiple products with various features as their needs changed. All of these connectors utilize IDC technology in various ways to terminate the wires to the connector.

Version “A” includes an integral tool that functions as a shunt until the connector is ready for use. Version “B” was designed for field termination of the device and functioned as a disconnect. Version “C” (current solution) comes with the wire harness and a plug and socket connection.

