

## APD 4-way High Voltage Series

*Fully certified and 10% smaller, the APD 4-way is a compliment to the electric vehicle.*

### The Challenge

The customer demand for a cost-effective, highly-reliable, IP graded, robust connector system that still met the need for a power distribution box application in their vehicles. The challenge was to create a connector which can handle 500V dc and 20A.

### Perfect Product Solution

ITT ICS met the customers needs and designed the new APD 4-way High Voltage Connector. This connector has been created with no change in the overall dimension and layout compared to the standard 4-way APD, with the element to handle 500V dc and 20A.

### Innovative Interconnect Benefits

- VDE certified connector
- 3,5 kV rated impulse voltage
- Up to 34A (for wire size 4,0mm<sup>2</sup> at 20°C)
- IP67/IP69K (when using individual wire sealing)
- Bayonet mating



### Attributes & Values

1. A modified insulator body allows the user to handle an operating voltage of up to 500V.
2. Can maintain an operating current of up to 34A.
3. Compared to similar products in the series, this connector is 10% lighter, resulting in no weight or size increase to the end product.
4. The 4-way High Voltage Connector system has the full VDE certification, confirming the safety and reliability.

### Applications

- E-vehicles
- Hybrid Vehicles
- Traction/Skid Control
- Construction Vehicles
- Agricultural Machinery
- Magnetic Control Switch Systems
- Industrial Automation
- Robotics
- Lighting System on Trucks and Trailers

