

# APPLICATION NOTE

[www.ittcannon.com](http://www.ittcannon.com)**APD for Wheeled Armored Vehicles****January 2010**

## The Challenge

Military / Defense applications have always used rugged, metal connectors specified for this market. With the demand for reduced spending of governmental organizations, this market opened partially for non-military type components. Not all military vehicles parts need the same level of reliability. Wheeled armored vehicles, mainly used for troop transporting, are a specific type of military vehicle this approach applies to. While the inner frame incorporates weaponry, radio or drive control which still requires a "military connector" other applications on the outside such as lighting and mirrors or functions such as cooling and heating allow for less expensive and lighter plastic connectors.



## Features

- Circular Plastic Connectors 1 to 51 way
- Fluid resistance against oil, diesel, break fluids etc.
- IP Rating up to IP67 / IP69K
- Specified to ISO 15170
- Vibration proof
- Stamped and machined contact offering
- Mechanical & colour coding
- Up to 48V
- Secondary locking

## Applications

- Heating & cooling
- Mirror systems
- Tire Pressure
- Lighting
- Speakers
- Microphones

## The ITT Solution ...

The APD product line was originally designed to meet the automotive norm DIN72585 (now ISO15170), and is now an ideal fit when the military specification requirements are removed. These connectors are lightweight, cost effective, easy to assemble, and offer additional security of a secondary locking system for high pin counts. This line is readily available and covers a wide range of layouts and required technical features such as high vibration resistance, resistance to fluids, and high sealing grades up to IP67 / IP69K.



**For application assistance, please contact:**

### **AMERICAS**

George Blazas, 1.860.945.8294, [George.Blazasl@itt.com](mailto:George.Blazasl@itt.com)

### **ASIA**

Edward Wong, +852.258.958.39, [Edward.Wong@itt.com](mailto:Edward.Wong@itt.com)

### **EUROPE**

Achim Raad, +49.7151.699.263, [Achim.Raad@de.itt.com](mailto:Achim.Raad@de.itt.com)