

# ITT Cannon APD Series Connectors



## HEAVY DUTY BAYONET CONNECTORS TO ISO 15170

ITT Cannon APD series connectors were designed to meet ISO 15170 and European DIN 72585 requirements for heavy duty trucking and are now commonly used in industrial equipment and harsh environments. The ITT Cannon APD series is resistant to brake and transmission fluids as well as to oil, grease, salt, dirt and mud. ITT Cannon APD heavy duty connectors have quick-mating bayonet coupling, lock wire holes for added security, and fold-over clamshell endbells. Common variations include 2 pin connector, 3 pin connector, 4 pin connector, 6 pin connector and 7 pin connector types. For full product details on APD connectors, see the specifications below.

### APPLICATIONS

- Sensors
- ABS brake control
- Valve actuators
- Magnetic vehicle control systems
- Vehicle-use monitoring equipment

### FEATURES

**RUGGED PLASTIC HOUSING** APDs are extremely resistant to salt spray, automotive oils, grease and fluids, and maintain their integrity in challenging environments.

**THREE-POINT BAYONET COUPLE SYSTEM** Besides being quick-mating with a third-of-a-turn, these connectors also provide an audible and tactile feedback that they are mated properly.

**COLOR-CODED MATED PAIRS** When multiple connectors must be used in the same area and mis-mating may occur, color-coded connectors should be used. There are four codings available, black (standard), green, gray, and blue, that are uniquely polarized by color using four internal keys and keyways allowing only connectors of the same color to mate.

**MULTIPLE CABLE HANDING OPTIONS** Low cost straight and right angle snap-over-clamshell style endbells can be used with cable ties for strain relief or put over plastic annular ring conduit (8.5mm or 10mm). The rear of the connector is also designed to use heat shrink tubing or slide on annular ring conduit (20mm).

### TECH SPECS

#### MATERIALS & FINISHES

Shell	High quality, plastic PBT housing, PA coupling nut
Seals	HNBR interfacial O-rings and elastomeric wire seals
Contacts	Copper alloy
Plating	Tin, silver or gold-plated

#### ELECTRICAL DATA

Working Voltage	48 Vdc max
Test Voltage	1000 Vac
Current Rating	From 16 to 25 Amps maximum; 240 Amps for power version
Wire Range Sizes	28 - 0 AWG (0.08-53.4 mm <sup>2</sup> )
Contact Resistance	3 milliohms maximum
Insulation Resistance	5000 megaohms minimum

#### MECHANICAL DATA

Operating Temperature	-40°C to 140°C (-40°F to 284°F)
Sealing	IP69K
Mating Life	50 cycles minimum
Vibration / Shock	147 - 500Hz 30g's; 500 -2000Hz 20g's
Number of Circuits	1-7, 1-4, 1-2 or single circuit power
Approvals	DIN 72585