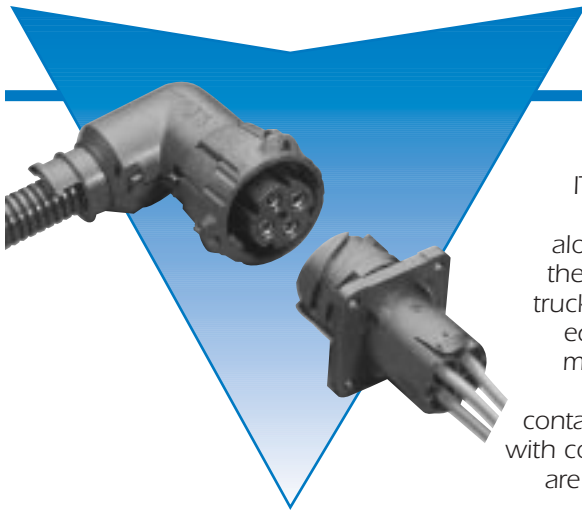


DIN 72585



ITT Cannon's APD connector was designed to work in the roughest environments. APD's are resistant to brake and transmissions fluids along with oils, greases, salt, dirt and mud. Originally made to meet the European DIN 72585 requirements for connectors for heavy duty trucking industry, these connectors are finding their way into industrial equipment. Even though these connectors have many high performance features including, quick mating bayonet coupling, lock wire holes for added security, wire seals than are crimped on with the contacts and low cost, fold-over clamshell endbells, they are constructed with components designed to provide a low total applied cost. Contacts are available on reels for use in automatic crimping machines and are inserted into the rear of the connector by hand.

Applications

- Sensors
- ABS Brake Control
- Valve Actuators
- Magnetic Vehicle Control Systems
- Vehicle Use Monitoring Equipment

Features

Rugged Plastic Housings

APD's are extremely resistant to salt spray, automotive oils, grease and fluids that maintain their integrity in roughest of 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).

Technical Specifications

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 ²)
Contact Resistance	3 milliohms maximum
Insulation Resistance	5000 megohms minimum

MECHANICAL

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

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