



# ITT Cannon APD Connectors

A fully proven, lightweight, and cost-effective series for the harshest environments

ITT Cannon's APD is a full plastic harsh environment connector series available in 1 to 51-way variants. Engineered for the toughest challenges, it provides a proven, cost-effective, and high-quality solution. From 1- & 2-way high power and VDE-certified 4-way high voltage solutions to 51-way high-density connectors, APD is the ultimate choice - whatever the requirement.

Ideal for heavy and off-road vehicle applications, the APD series features a proven bayonet coupling design with reliable sealing up to IP69K, multiple color and coding options, and is based on ISO 15170. Compact, lightweight, easy to assemble, and ultra-reliable, you can rely on APD when it matters most.

## The ITT Cannon Difference

- Global capabilities and local support
- Proven application expertise
- Over a century of interconnect leadership
- A committed innovator and business partner

## Key Product Features

- Lightweight and space saving
- Cost effective
- Based on ISO 15170
- Fast and simple assembly
- High power & high voltage variants
- Mechanical and color coding
- 1 to 51-way layouts
- Wire range: 0.35 – 50 mm<sup>2</sup> (AWG 22 – AWG 0)
- Operating temp: -40°C to +125°C (+140°C for 4-way)
- Sealing: IP67 / IP69K (with individual wire seals)



## Applications

HEAVY AND OFF-ROAD VEHICLES



TRUCK AND BUS



CONSTRUCTION VEHICLES



Cabin interface • Signal and power distribution • Lighting systems • Selective catalytic reduction  
 Engine control unit • Valve control • Sensors • Traction / Skid Control • Brake Control

APD	Current Rating*	Max. Voltage	Wire Range	Contacts	IP Class	Codings	
						Mechanical	Colors
1-way High Power	245 A	48 Vdc	16 - 50 mm <sup>2</sup> (AWG 5 - 0)	Size 0 Machined	IP67	3	3
2-way High Power	105 A	48 Vdc	6 - 16 mm <sup>2</sup> (AWG 9 - 5)	Size 8 Machined	IP67	1	3
4-way	29 A	48 Vdc	0,5 - 4 mm <sup>2</sup> (AWG 20 - 11)	Size 12 APK25	IP67 / IP69k	4	4
4-way High Voltage 	29 A	500 V dc/ ac	0,5 - 4 mm <sup>2</sup> (AWG 20 - 11)	Size 12 APK25	IP67 / IP69k	2	2
6-/7-way	16 A	48 Vdc	0,75 - 1,5 mm <sup>2</sup> (AWG 18 - 16)	Size 16 T2P	IP67 / IP69k	1	2
19-way	10 A	48 Vdc	0,35 - 1,5 mm <sup>2</sup> (AWG 22 - 16)	Size 16 APK16	IP67 / IP69k	4	4
37-way	9 A	48 Vdc	0,35 - 1,5 mm <sup>2</sup> (AWG 22 - 16)	Size 16 APK16	IP67 / IP69k	1	1
51-way	8,5 A	48 Vdc	0,35 - 1,5 mm <sup>2</sup> (AWG 22 - 16)	Size 16 APK16	IP67 / IP69k	4	4

\*at 60° C / 140° F ambient temperature

In addition to an extensive portfolio of accessories and tooling solutions the range is complemented by the innovative Modular APD Plate. Designed for management of connectors in cabin-to-chassis and centralized interconnect applications, the innovative and patented Modular APD Interface ensures that installing, reconfiguring, mating and un-mating of Cannon’s class-leading APD interconnects is simple, fast and pain-free.



### Why ITT

ITT is a focused multi-industrial company that designs and manufactures highly engineered critical components and customized technology solutions. ITT’s Cannon brand is a leading global manufacturer of connector products serving international customers in aerospace, defense, medical, industrial and transportation end markets. ITT’s Connector business, which also includes the Veam and BIW Connector Systems brand, manufactures and supplies a variety of connectors and interconnects that make it possible to transfer data, signal and power in an increasingly connected world.

Connect with your ITT Cannon representative today or visit us at [ittcannon.com](http://ittcannon.com)

Follow us

**CHINA - Shenzhen City**  
+86.755.2726.7888

**GERMANY - Weinstadt**  
+49.7151.699.0

**ITALY - Lainate**  
+39.02938721

**KOREA**  
+82.2.702.7111

**SHANGHAI**  
+ 86.21.2231.2222

**UK - Basingstoke**  
+44.1256.347400

**FRANCE**  
+33.1.60.04.93.93

**HONG KONG**  
+852.2732.2720

**JAPAN - Kanagawa**  
+81.462.57.2010

**MEXICO - Nogales**  
+52.631.311.0050

**SINGAPORE**  
+65 66974205

**USA - Irvine, CA**  
+1.800.854.3028