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Cannon, VEAM, BIW



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Cannon

# APD Series

Light weight, IP69k sealed and  
ISO 15170 plastic connectors

Features & Benefits



ENGINEERED FOR LIFE

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ENGINEERED FOR LIFE



# APD Series – Proven bayonet design with reliable IP69k sealing

Based on the ISO 15170 this full plastic series is an ideal solution whenever harsh environment requirements, high sealing grades and vibration requirements have to be met.

Originally designed for the truck, bus, agriculture, construction, e-vehicle and special vehicle market, these products meet all typical demands of applications in this field. APD is also the connector of choice in other areas including military or industrial applications that require harsh environment solutions while needing a product that is both, small in size and light in weight.


The APD series covers a wide range of 1- and 2-way high power, VDE-certified 4-way high voltage and up to 51-way high density connectors also available as special sensor or PCB type versions.

This series has been developed in close cooperation with our customers and is a flexible platform for customized solutions.


## Applications e.g. for tractors

- cabin interface / signal and power distribution
- lighting
- engine control unit
- valve control

## Our products do, what we say they will do



**Bayonet coupling**  
Bayonet coupling providing improved vibration resistance for 100% application reliability in harsh environments.



**Mechanical and color codings**  
Up to 4 different mechanical and color codings with tactile and visual feedback guarantee 100% correct mating.



**IP69k sealing**  
Individual wire seals for a sealed interconnect up to IP69k.


## Why customers benefit from choosing ITT's APD Series

- Saving space, weight and cost
- Fast and easy assembly
- Harsh environment proven
- High power / high voltage solution
- Mechanical and color codings guarantee 100% correct mating

## Technical overview

- 1- to 51-way layouts
- Wire range: 0,35 – 50 mm<sup>2</sup> (AWG 22 – AWG 0)
- Max. rating 245 A / max. voltage 500 V dc / ac
- -40°C to +125°C / -40°F to +257°F


IP Sealing IP67 / IP69k

**Secondary locking**  
Secondary locking for 19- and 51-way connectors enabling improved retention force and ease of assembly / disassembly.

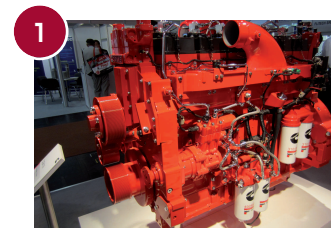


**Machined and stamped contacts**  
Machined and stamped contacts in various sizes, materials and platings accommodate wire sizes up to 50 mm<sup>2</sup>.

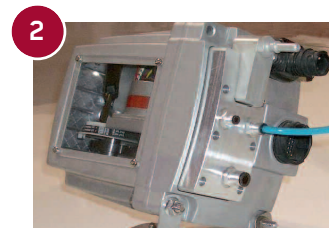


**Broad range of accessories**  
Variety of shell styles and accessories, including 90 degree end bells allowing easy adaptation to customer specific applications.

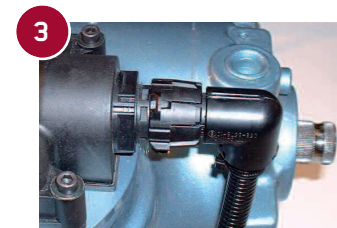
# Overcoming transportation challenges for two decades with APD connectors



1 Sensor and signal integrity on **diesel engines** realized with APD 4- and 19-way.



2 **SCR (selective catalytic reduction)** driven by APD 37-way on dosing pumps.




3 **Power transmission in steering systems** relying on APD 4-way.



4 **Safe cargo lifting and lowering** enabled by APD 2-way connectors.

## Product portfolio

APD	Current Rating*	Max. voltage	Wire range	Contacts	IP class	Coding
1-way High Power	245 A	48 Vdc	16 - 50 mm <sup>2</sup> (AWG 5 - 0)	Size 0 machined	IP67	3 mechanical & color codings
2-way High Power	105 A	48 Vdc	6 - 16 mm <sup>2</sup> (AWG 9 - 5)	Size 8 machined	IP67	one coding
4-way	29 A	48 Vdc	0,5 - 4 mm <sup>2</sup> (AWG 20 - 11)	Size 12 APK25	IP67 / IP69k	4 mechanical & color codings
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 mechanical codings
6-/7-way	16 A	48 Vdc	0,75 - 1,5 mm <sup>2</sup> (AWG 18 - 16)	Size 16 T2P	IP67 / IP69k	one coding
19-way	10 A	48 Vdc	0,75 - 1,5 mm <sup>2</sup> (AWG 18 - 16)	Size 16 APK16	IP67 / IP69k	4 mechanical & color codings
37-way	9 A	48 Vdc	0,35 - 1,5 mm <sup>2</sup> (AWG 22 - 16)	Size 16 APK16	IP67 / IP69k	one coding
51-way	8,5 A	48 Vdc	0,35 - 1,5 mm <sup>2</sup> (AWG 22 - 16)	Size 16 APK16	IP67 / IP69k	4 mechanical & color codings

For more information please visit our website at [www.ittcannon.com](http://www.ittcannon.com)

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