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Modular APD Interface

For management of APD connectors in cabin to chassis applications



We Connect When it matters most

For more than a century, ITT has developed innovative interconnect solutions for the world's harshest environments. With facilities in the United States, Germany, Italy, Mexico, China and Japan, each with its unique strengths, we offer our customers interconnect solutions that are truly Engineered for Life.

In addition to this truly global footprint, we offer highly specialized, segmented industry expertise. We have a proven track record as an industry leader in harsh-environment applications. This has equipped us with the knowledge needed to continue to produce the most resilient, reliable connectors for our customers' most challenging conditions.

Global interconnect solutions for the harshest environments.

The ITT Cannon difference

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

About ITT

ITT is a diversified leading manufacturer of highly engineered critical components and customized technology solutions for the energy, transportation and industrial markets. Building on its heritage of innovation, ITT partners with its customers to deliver enduring solutions to the key industries that underpin our modern way of life. Founded in 1920, ITT is headquartered in White Plains, N.Y., with employees in more than 35 countries and sales in a total of approximately 125 countries. For more information visit www.itt.com.

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ITT Cannon Modular APD Interface

Enabling quick and simple management of APD connectors in cabin to chassis and centralized interconnect applications.



The Challenge

Mating, un-mating, reconfiguring or adding cabin to chassis and centralized interconnects on the production line can be a complex, time consuming and costly exercise. In some instances the cabin can be removed from the chassis several times during the assembly process.

Similarly, subsequent upgrades, services and refurbishments can very often necessitate additions or amendments to power and signal connectivity within the vehicle. Once again managing and working with these traditional interconnect configurations can be surprisingly complex.

The ITT Cannon Solution

In order to solve this issue ITT Cannon's engineers developed the innovative and patented Modular APD Interface that ensure installing, reconfiguring, mating and un-mating of Cannon's class leading APD interconnects is simple, fast and pain free.

The easy to install modular interface saves time, saves space and reduces complexity during initial assembly and subsequent service and upgrade activity. The system delivers exceptional flexibility to add or change connectors as additional vehicle services are developed and to implement standardized yet customizable connector systems for multiple applications.

Key Features

- Simple to install
- Flexible modular design providing
- Ability to easily add and reconfigure connectors
- Standardized solution for multiple applications
- Space saving
- Reduces assembly time and complexity
- For use with class leading APD interconnect range
- Fully customizable plate and modules

Modular APD Interface technical data				
Temperature Range: -40°C to +85°C				
Water tightness:	IP54 / IP6K5 depending on mounting position			
Material:	Module: PBT GF10 Sealing of Module: HNBR Frame: PBT GF30 Frame Seal: TPE			

Applications



CONSTRUCTION



OFF ROAD





AGRICULTURE

TRUCK AND BUS

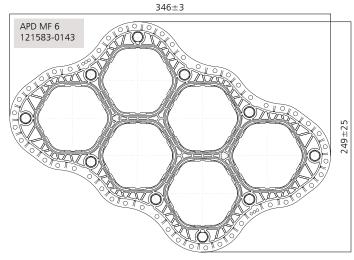


ITT Cannon Modular APD Interface

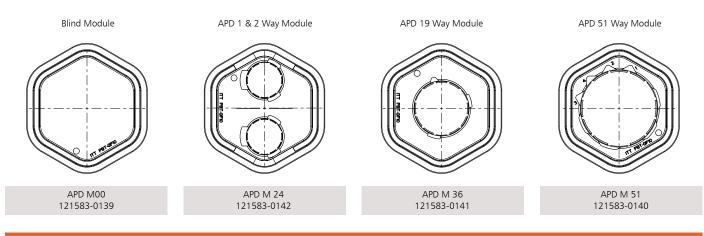
Representation of Modular APD Interface on a cabin.



Modular APD Plate dimension drawing



APD Modules dimension drawing

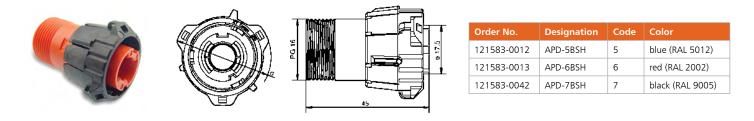


Key Features ITT Cannon APD Interconnects

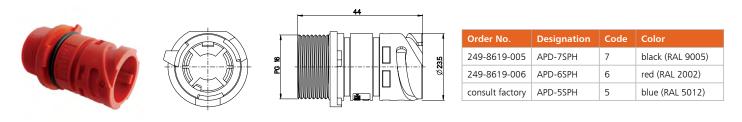
- Signal and power connectors in 1 to 51 way variants
- Extremely resistant to shock and vibration
- High performance thermoplastic polymer material
- Resistant to engine, transmission and brake fluids
- High Sealing grades up to IP69K
- Field repairable
- Wire sizes 0,5mm² to 50mm²
- Extensive range of application tooling and accessories

Cannon APD / ISO 15170 Connectors

High Power Plug, APD 1-way



High Power Snap-in Receptacle, APD 1-way



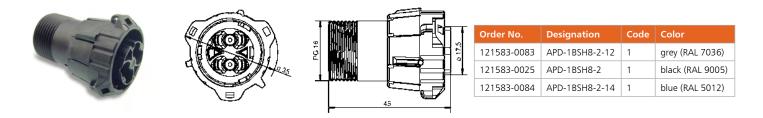
Machined Socket Crimp-Contacts, High Performance Copper, Silver plated for APD 1-way

Order No.	AWG	
031-8521-030 (16,00 mm ²)		
031-8521-010 (25,00 mm ²)	4	
031-8521-020 (35,00 mm²)	2	
031-8646-015 (50,00 mm ²)	with bunch	

Machined Pin Crimp Contacts, High Performance Copper, Silver plated for APD 1-way

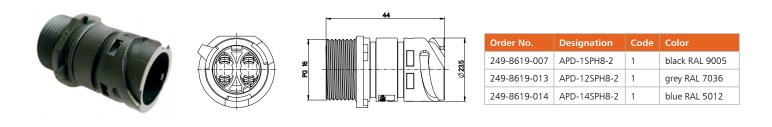
Order No.	AWG
030-8614-030 (16,00 mm ²)	
030-8614-010 (25,00 mm ²)	4
030-8614-020 (35,00 mm ²)	2
030-8581-029 (50,00 mm ²)	with bunch

High Power Plug, APD 2-way





High Power Snap-In Receptacle, APD 2-way



Machined Socket Crimp-Contacts, Standard Silver plated for APD 2-way

Order No. 031-8646-010 (6,00 mm²)* 031-8646-011 (10,00 mm²) 031-8646-002 (AWG 8) 031-8646-003 (AWG 6) 031-8646-001 (16,00 mm²)

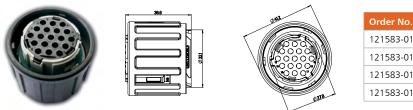
Machined Pin Crimp-Contacts, Standard Silver plated for APD 2-way

Order No.
430-8645-000 (6,00 mm²)*
430-8645-009 (10,00 mm²)
430-8645-003 (AWG 8)
430-8645-002 (AWG 6)
430-8645-007 (16,00 mm ²)

* use individual wire seal or grommet

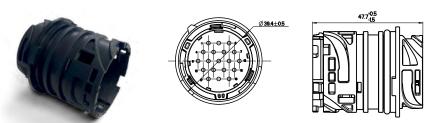
Plug, APD 19-way

* use individual wire seal or grommet



Order No.	Designation	Code	Color
121583-0119	APD-1BS19S	1	black (RAL 9005)
121583-0121	APD-2BS19S	2	grey (RAL 7036)
121583-0123	APD-3BS19S	3	green (RAL 6029)
121583-0125	APD-4BS19S	4	blue (RAL 5012)

Snap-In Receptacle APD 19-way

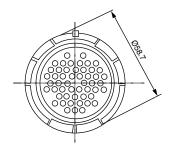


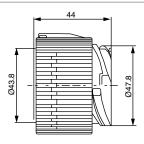
Order No.	Designation	Code	Color
121583-0148	APD-2SNP19S	2	grey (RAL 7036)
121583-0154	APD-1SNP19S	1	black (RAL 9005)
121583-0155	APD-3SNP19S	3	green (RAL 6029)
121583-0156	APD-4SNP19S	4	blue (RAL 5012)

For APD accessories such as endbells, dust caps, flex tube adaptorsand tools please see the APD catalog.

Plug, APD 51-way, Secondary Lock Version



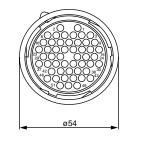


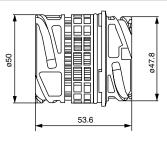


Order No.	Designation	Code	Color
121583-0187	APD-1BP51SN	1	green (RAL 6018)
121583-0188	APD-2BP51SN	2	yellow (RAL 1018)
121583-0189	APD-3BP51SN	3	brown (RAL 3009)
121583-0190	APD-4BP51SN	4	purple (RAL 4001)

Snap-In Receptacle, APD 51-way, Secondary Lock Version







Order No.	Designation	Code	Color
121583-0150	APD-1SNS51S	1	green (RAL 6018)
121583-0151	APD-2SNS51S	2	yellow (RAL 1018)
121583-0152	APD-3SNS51S	3	brown (RAL 3009)
121583-0153	APD-4SNS51S	4	purple (RAL 4001)

For APD 19-way and 51-way Secondary Lock Version

Contacts	Disting	Crimp	Reeled (5000) pcs)	Loose Piece (bags of 100)	
(stamped & formed) Plating		Range	Designation	Part number	Designation	Part number
	tin	0,35 - 0,75 mm ²	APK-SA16A07-002	121668-0221	APK-SA16A07-002-B	121668-0274
Collection at the	tin	0,75 - 1,5 mm ²	APK-SA16A15-002	121668-0202	APK-SA16A15-002-B	121668-0276
Socket contacts gold (0,8 μm)	qold	0,35 - 0,75 mm ²	APK-SA16G07-002	121668-0270	APK-SA16G07-002-B	121668-0278
	(0,8 µm)	0,75 - 1,5 mm ²	APK-SA16G15-002	121668-0272	APK-SA16G15-002-B	121668-0280
Pin contacts gold (0,8 µm)		0,35 - 0,75 mm ²	APK-PA16A07-002	121668-0252	APK-PA16A07-002-B	121668-0275
	0,75 - 1,5 mm ²	APK-PA16A15-002	121668-0253	APK-PA16A15-002-B	121668-0277	
	gold	0,35 - 0,75 mm ²	APK-PA16G07-002	121668-0269	APK-PA16G07-002-B	121668-0279
		0,75 - 1,5 mm ²	APK-PA16G15-002	121668-0271	APK-PA16G15-002-B	121668-0281

Individual Wire Seals / Blind Seals

Description	Insulation Diameter	Color	Part Number
	1,2 - 1,6 mm	Red	121667-0024
Single Wire Sealing	1,4 - 2,0 mm	Grey	121667-0022
	1,9 - 2,1 mm	Yellow	121667-0023
Blind Seal	1,4 - 2,0 mm	White	121667-0025



Connect with your ITT Interconnect Solutions representative today or visit us at www.ittcannon.com

Connect with the experts

ITT Interconnect Solutions' Cannon brand is a world leader in the design and manufacture of highly engineered connector solutions for multiple end markets.



ENGINEERED FOR LIFE

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