APD is a direct, in-line and bulkhead sensor connector that is resistant to engine, transmission and brake fluid. It also boasts very low contact resistance, so you can benefit from maximum signal intergrity. APD is available in 1-, 2-, 3-, 4-, 6- and 7 position versions and has been designed to meet all DIN 72585 requirements.

Applications for the 4- and 7-way connector include:

- Sensors
- Traction / Anti Skid Control
- Brake Control (ABS)
- Magnetic Switch Control Systems
- Valve Control (Water, Oil, Air, Pressure)
- Lightening systems on Trucks and Trailers



Performance Specifications

Contact Resistance $\leq 5m\Omega$ Insulation Resistance $\leq 10M\Omega$

Current Rating 21 A max. for wire size 1,5 mm² / 25°C

29 A max. for wire size 2,5 mm 2 / 25 $^{\circ}$ C 34 A max. for wire size 4,0 mm 2 / 25 $^{\circ}$ C

Voltage 48 VDC max.
Test Voltage 1000 VAC (Ueff)

Operating Temperature -40°C / 125°C

Class K2: -40°C / 140°C contact temperature

Sealing acc. to IEC 529 and DIN 40050, Part 9 IP67 and IP69K

Shock / Vibration 30g acc. to DIN 72585

Durability 50 mating cycles

Materials and Finishes

Connector Housing PB

O-ringl HNBR

Contacts Copper alloy, tinned

Coupling Nut F

Standards and Specifications (in accordance with DIN 72585) Environmental

DIN 40050, Part 9
DIN 50016
DIN 50021
DIN 51512
DIN 5151

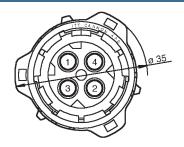
DIN EN 590 Diesel fuel, gasoline

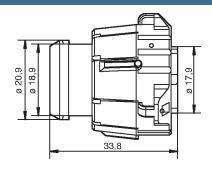
DIN ISO 4925 Brake fluids, anti-freeze, coolants



Plug, 4-way







Order No.	Designation	Code	Color
121583-0000	APD-1BS-K2	1	black (RAL 9005)
121583-0001	APD-2BS-K2	2	gray (RAL 7036)
121583-0002	APD-3BS-K2	3	green (RAL 6029)
121583-0003	APD-4BS-K2	4	blue (RAL 5012)

Packaging unit 100 pcs.

Socket Crimp Contacts, Individual wire-seal, Wire filler, see page 9. Accessories, see page 41 and 42.

Coding, 4-way layouts

View on Mating Face



code 1 black



code 2 gray



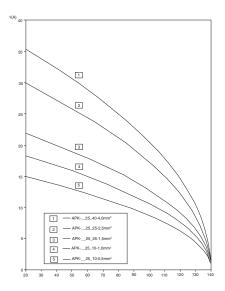
code 3 green



code 4 blue

Note: The connectors offer both mechanical keying and visual coding by different colors

Derating Curve

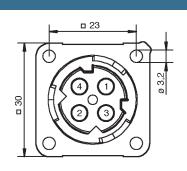


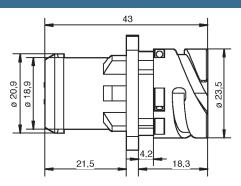


Dimensions shown in mm Specifications and dimensions subject to change

Flange Receptacle, 4-way







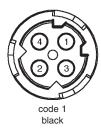
Order No.	Designation	Code	Color
121583-0004	APD-1AP-K2	1	black (RAL 9005)
121583-0005	APD-2AP-K2	2	gray (RAL 7036)
121583-0006	APD-3AP-K2	3	green (RAL 6029)
121583-0007	APD-4AP-K2	4	blue (RAL 5012)

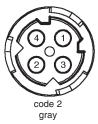
Packaging unit 100 pcs.

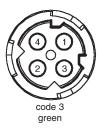
Pin Crimp-Contacts, Individual wire-seal, Wire filler, Flange gasket, see page 9. Accessories, see page 41 and 42.

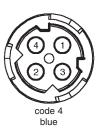
Coding, 4-way layouts

View on Mating Face





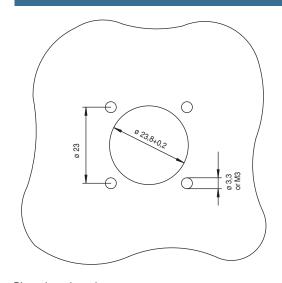


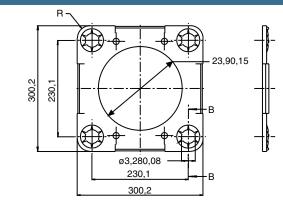


Note: The connectors offer both mechanical keying and visual coding by different colors

Panel Cut Out

Flange for all Flange Receptacles





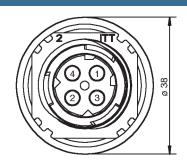
Order Number: 066-8516-005

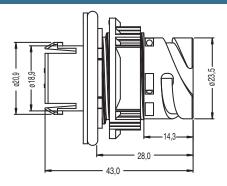
Dimensions shown in mm
Specifications and dimensions subject to change



Jam Nut Receptacle, 4-way







Order No.	Designation	Code	Color
121583-0008	APD-1CP-K2	1	black (RAL 9005)
121583-0009	APD-2CP-K2	2	gray (RAL 7036)
121583-0010	APD-3CP-K2	3	green (RAL 6029)
121583-0011	APD-4CP-K2	4	blue (RAL 5012)

Packaging unit 100 pcs.

Pin Crimp-Contacts, Individual wire-seal, Wire filler, Flange gasket, see page 9. Accessories, see page 41 and 42.

Coding, 4-way layouts

View on Mating Face



code 1 black



gray



code 3 green

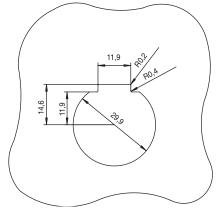


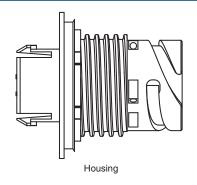
blue

Note: The connectors offer both mechanical keying and visual coding by different colors

Panel Cut Out

Piece Parts / Assembly Instruction









Jam Nut

Thickness: Standard: min. 1,0 / max. 4,0 mm Special: min. 2,0 / max. 5,0 mm

Jam Nut, special

Designation Order No. for special wall thickness 2,0 - 5,0 mm 217-8516-001

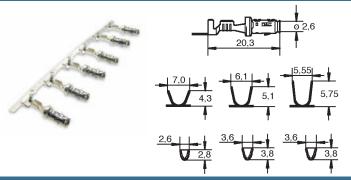


Socket Crimp-Contacts Standard Tinned, 3000 contacts per reel

Designation - Standard	Order No.

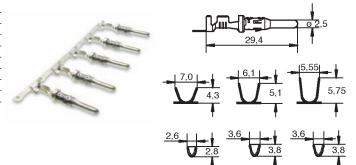
APK-SB25A10-002 (0,5 - 1,5 mm ²)	121668-0125
APK-SB25A25-002 (1,5 - 2,5 mm ²)	121668-0126
APK-SB25A40-002 (2,5 - 4,0 mm²)	121668-0127
Optional with Au-flash	
* APK-SB25H10-002 (0,5 - 1,5 mm²)	121668-0022
* APK-SB25H25-002 (1,5 - 2,5 mm²)	121668-0128
* APK-SB25H40-002 (2,5 - 4,0 mm²)	121668-0124
* A!	

^{*} Available only by request



Pin Crimp-Contacts Standard Tinned, 3000 contacts per reel

Designation - Standard	Order No.
APK-PB25A10-002 (0,5 - 1,5 mm²)	121668-0026
APK-PB25A25-002 (1,5 - 2,5 mm²)	121668-0027
APK-PB25A40-002 (2,5 - 4,0 mm²)	121668-0020
Optional with Au-flash	
* APK-PB25H10-002 (0,5 - 1,5 mm²)	121668-0021
* APK-PB25H25-002 (1,5 - 2,5 mm²)	121668-0029
* APK-PB25H40-002 (2,5 - 4,0 mm²)	121668-0025
* Available only by request	

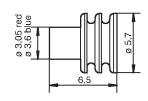


Individual Wire Seals

Designation	Order No.
10RD5821	121668-0032
Wire insulation ø 1,4 - 2,0 mm / red	
15BL5822	121668-0033
Wire insulation ø 2,0 - 2,9 mm / blue	



For all versions 4-way

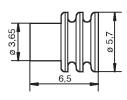


Wire Filler

Designation	Order No.
15WH5823	121668-0034
laita	

For all versions 4-way

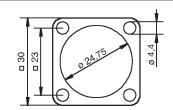




Flange Gasket

Order No.	
	075-8503-000 (-55/125° C)
	075-8503-004 (-30/200° C)
	Packaging unit 100 pcs.

For Flange Receptacle, 4-way





Crimp and Assembly Tools for APK 25 Contacts

Contact / Socket	Hand Crimp Tool / Order No.	Crimp-Dies
APK-SB25A10-002 (0,5 - 1,0 mm ²)	M22520-5-01 / 995-0001-761	CT121586-289
APK-SB25A25-002 (1,5 - 2,5 mm²)	M22520-5-01 / 995-0001-761	CT121586-290
APK-SB25A40-002 (2,5 - 4,0 mm ²)	M22520-5-01 / 995-0001-761	CT121586-292
Contact / Pin	Hand Crimp Tool / Order No.	Crimp-Dies
Contact / Pin APK-PB25A10-002 (0,5 - 1,0 mm²)	Hand Crimp Tool / Order No. M22520-5-01 / 995-0001-761	Crimp-Dies CT121586-289
	<u> </u>	
APK-PB25A10-002 (0,5 - 1,0 mm²)	M22520-5-01 / 995-0001-761	CT121586-289
APK-PB25A10-002 (0,5 - 1,0 mm²) APK-PB25A25-002 (1,5 - 2,5 mm²)	M22520-5-01 / 995-0001-761 M22520-5-01 / 995-0001-761	CT121586-289 CT121586-290

Crimp Machine for volume production



Designation	Order No.
EPS 2000	121586-5043

Order No.

Quick Change Tool for above Crimp Machine: (Mini Applicator)

Contact / Socket



		(to be mentioned on order)
APK-SB25A10-002 (0,5 - 1,0 mm²)	WWZ.20-100-APK25-10-002	121586-5134
APK-SB25A25-002 (1,5 - 2,5 mm²)	WWZ.20-100-APK25-25-002	121586-5135
APK-SB25A40-002 (2,5 - 4,0 mm²)	WWZ.20-100-APK25-40-002	121586-5136
Contact / Pin	Designation	Order No.
	Designation	(to be mentioned on order)
APK-PB25A10-002 (0,5 - 1,0 mm ²)	WWZ.20-100-APK25-10-002	121586-5134
APK-PB25A25-002 (1,5 - 2,5 mm²)	WWZ.20-100-APK25-25-002	121586-5135
APK-PB25A40-002 (2,5 - 4,0 mm²)	WWZ.20-100-APK25-40-002	121586-5136

Designation

Contact Extraction Tool



Designation	Order No.
CET-APK25	192900-0176

