

RGA01 and GT Series

Automotive-grade waterproof connectors

From compact precision to high current capacity,
designed to meet multi-scenario high protection demands

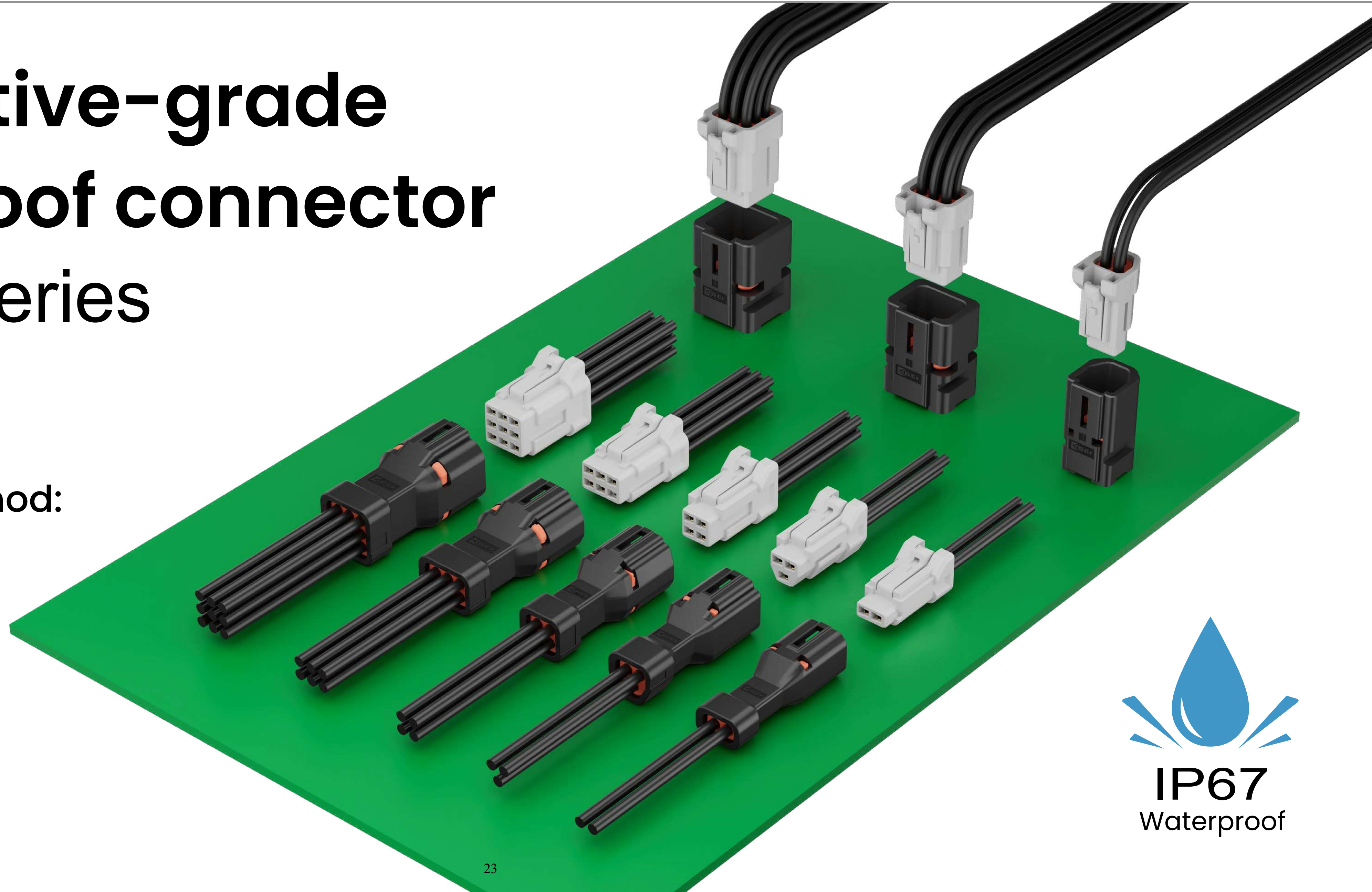
IP67/IP68 · Compact Design · High Reliability



Automotive-grade waterproof connector RGA01 Series

Pitch: 2.2mm

Connection method:
wire-to-wire,
wire-to-board





Construction machinery



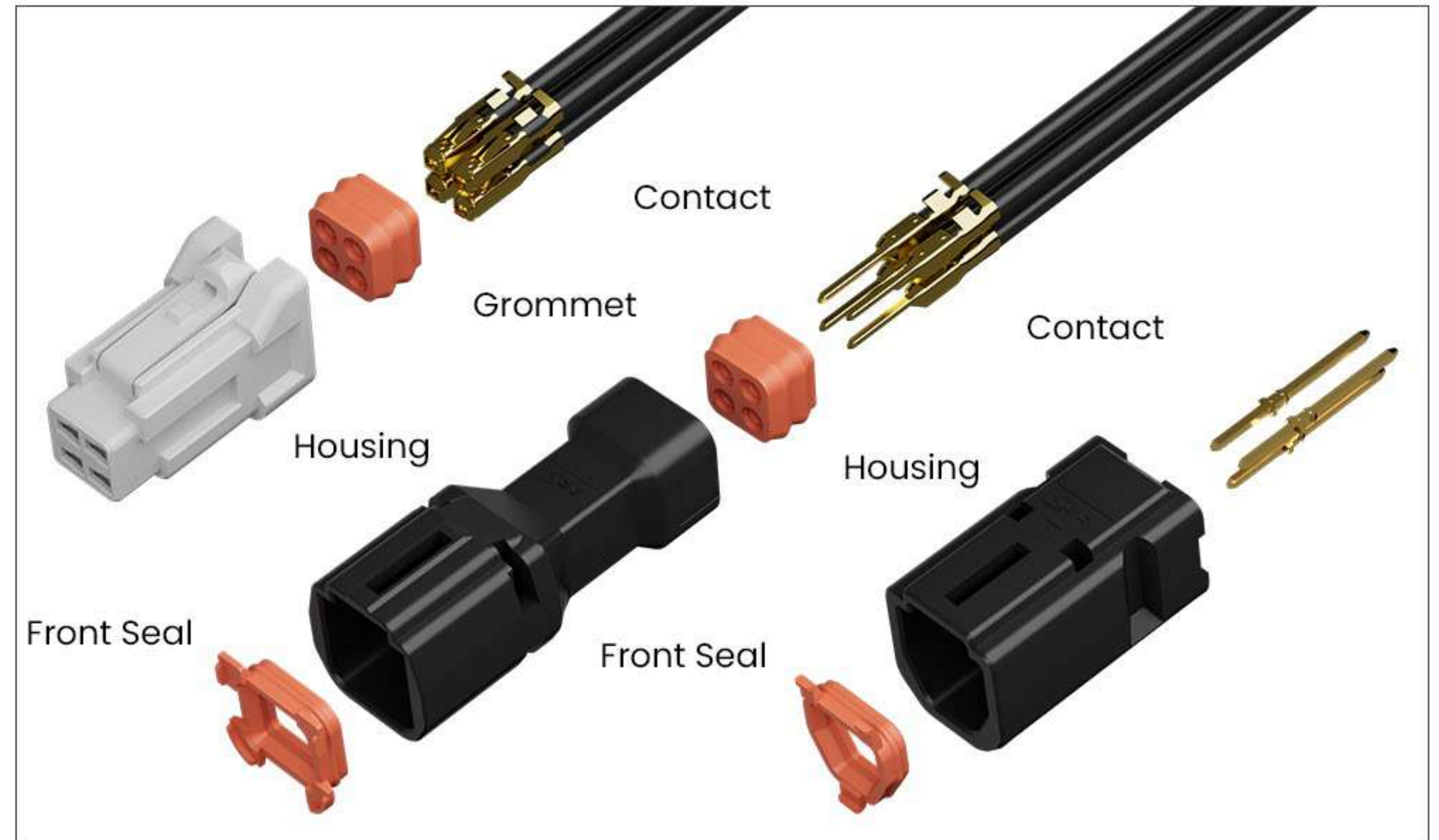
Automobile



Road lighting



Robotics



RGA01 series automotive waterproof connectors offer compact, water-resistant solutions for internal wiring in tight spaces. Featuring a secure locking mechanism and robust contact design, they prevent accidental disconnections and ensure reliable connections.

With an IP67 waterproof rating, these connectors are ideal for harsh environments.

Available in various configurations and compatible with a wide range of cable sizes, they meet diverse application needs.

Male socket				
Type	Pin No.	Part number	Plastic housing number	Terminal number
Wire-side	2	RLZZW102-AXX	RAGZ181-02AAN-N	RARZ1E1-01R2AB Wire gauge: AWG26-24 Cross-sectional area: 0.14~0.22mm ² RARZ1E1-02R2AB Wire gauge: AWG22-20 Cross-sectional area: 0.34~0.56mm ²
	3	RLZZW603-AXX	RAHW072-03AAZ-N	
	4	RLZZW202-AXX	RAGZ182-02AAN-N	
	6	RLZZW203-AXX	RAHW052-03AAZ-N	
	9	RLZZW303-AXX	RAGZ183-03ANN-N	
Board-side	3	RGZWA202-B001	/	/
	6	RGZWA201-B001	/	/
	9	RGZWA301-B001	/	/

Female socket				
Type	Pin No.	Part number	Plastic housing number	Terminal number
Wire-side	2	RLZZW102-BXX	RAGZ171-02AAT-N	RARZ1E2-01R2AB Wire gauge: AWG26-24 Cross-sectional area: 0.14~0.22mm ² RARZ1E2-02R2AB Wire gauge: AWG22-20 Cross-sectional area: 0.34~0.56mm ²
	3	RLZZW603-BXX	RAHW082-03AAT-N	
	4	RLZZW202-BXX	RAGZ172-02AAT-N	
	6	RLZZW203-BXX	RAHW062-03AAT-N	
	9	RLZZW303-BXX	RAGZ173-03AAT-N	

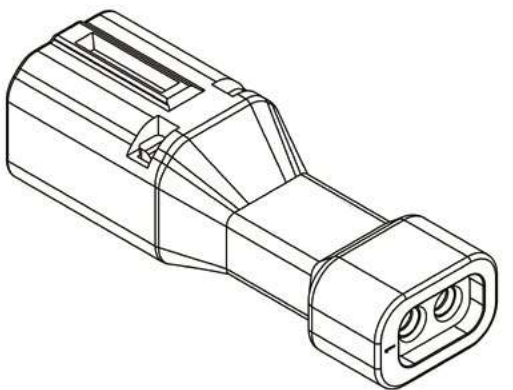
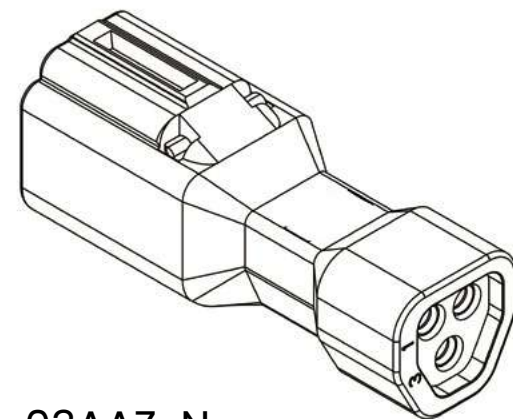
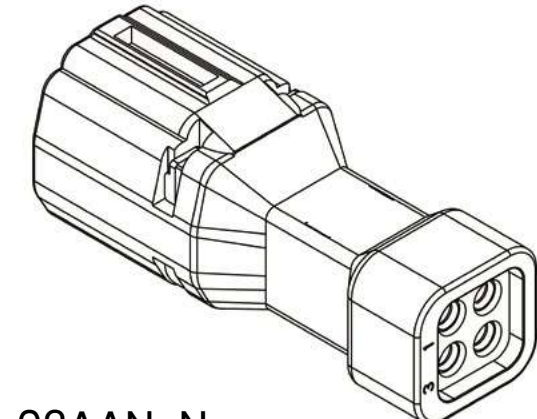
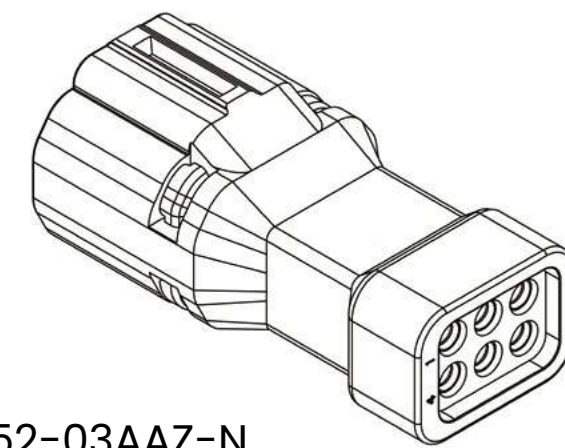
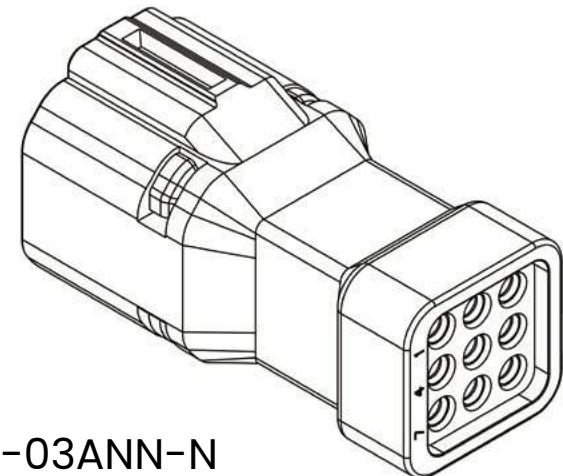
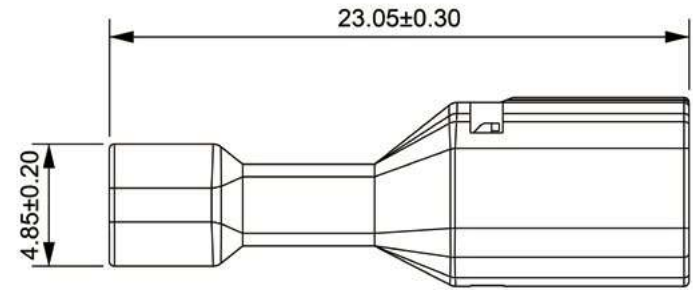
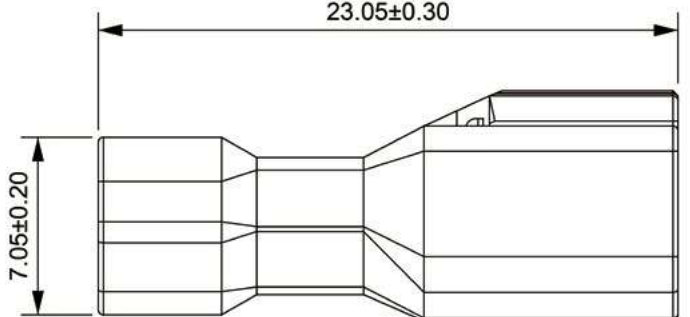
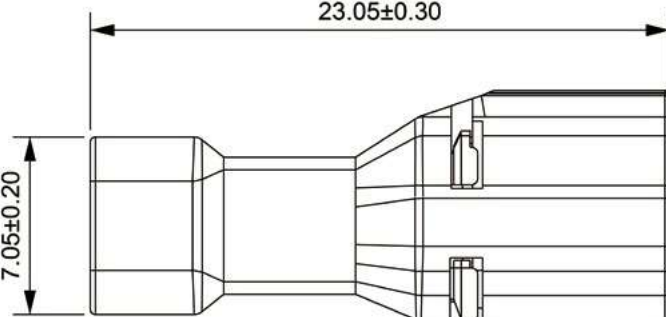
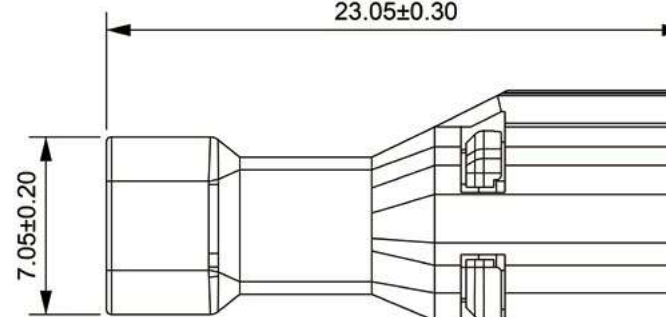
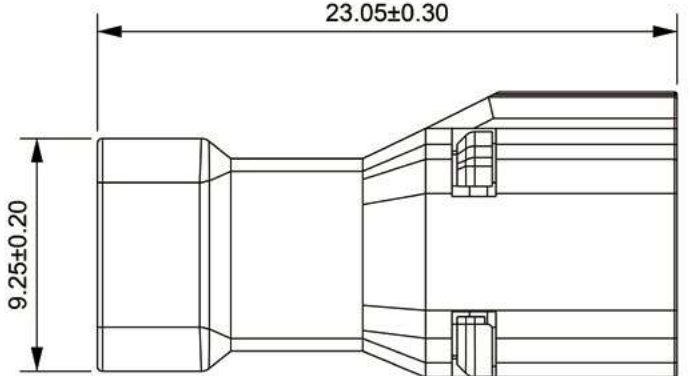
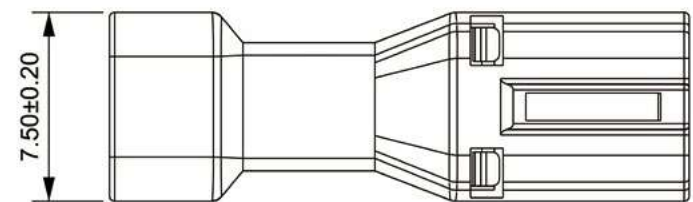
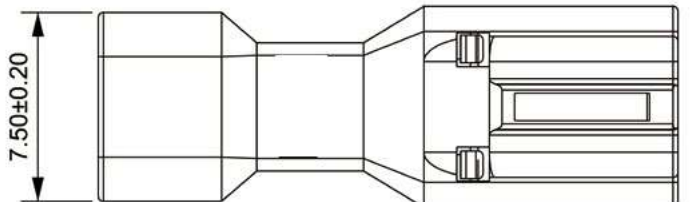
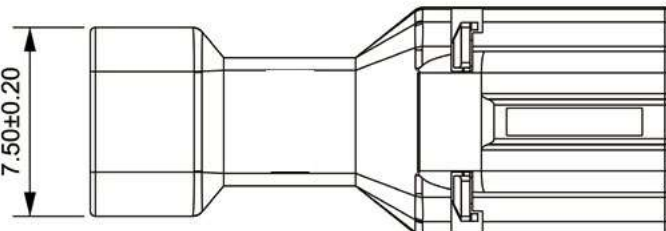
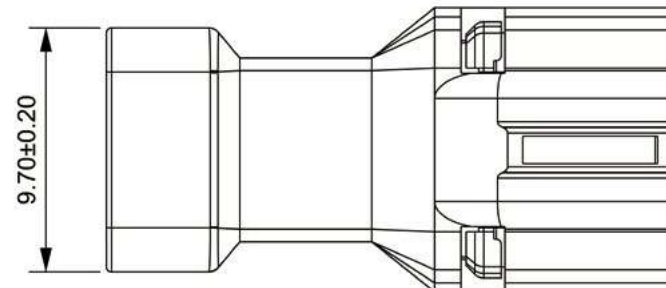
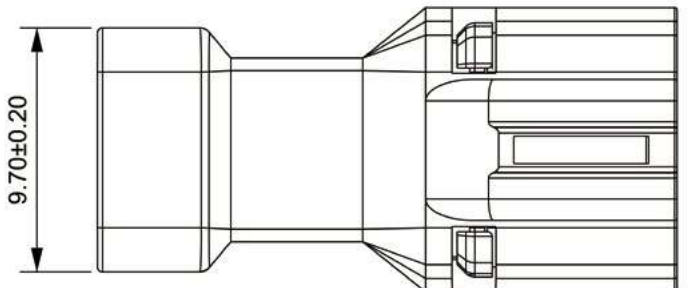
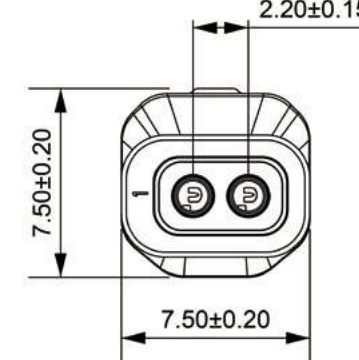
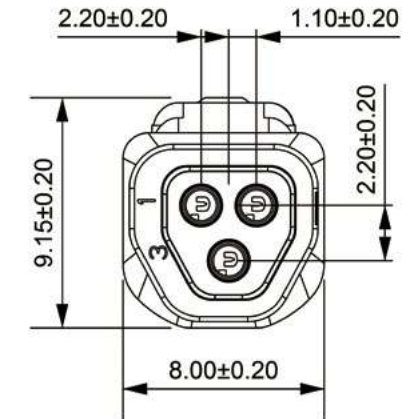
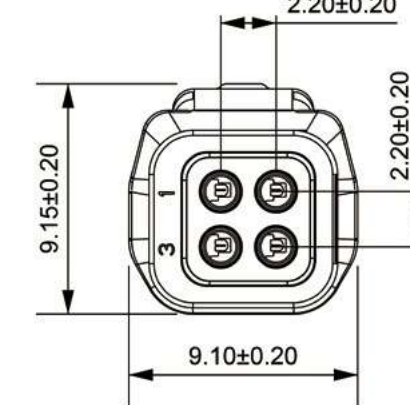
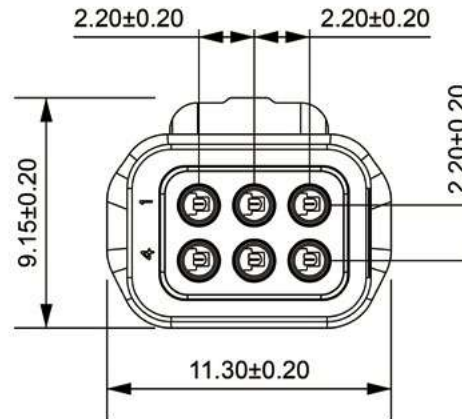
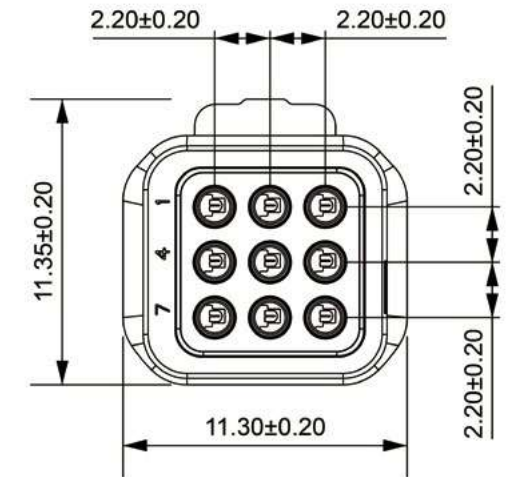
Material	
Insulating material	Male socket: PBT (black) / Female socket: PBT (natural color)
Contact material	Copper alloy (tin-plated surface)

Electrical performance	
Rated voltage	250V AC/DC
Rated current	20 AWG: 5.0A/pin for 2pin; 3.5A/pin for 3~9pin 22 AWG: 4.0A/pin for 2pin; 3.0A/pin for 3~9pin 24 AWG: 3.5A/pin for 2pin; 2.0A/pin for 3~9pin 26 AWG: 3.0A/pin for 2pin; 1.0A/pin for 3~9pin
Insulation resistance	≥1000MΩ
Contact resistance	≤30mΩ
Withstand voltage	650V AC

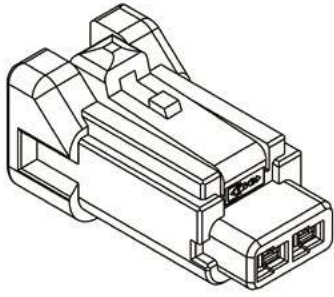
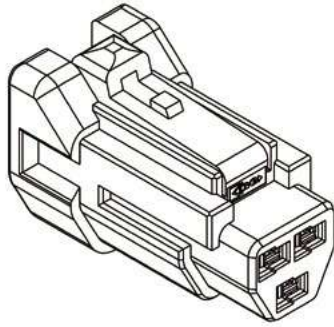
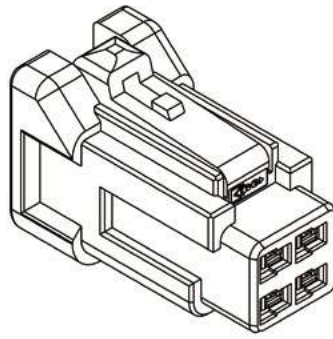
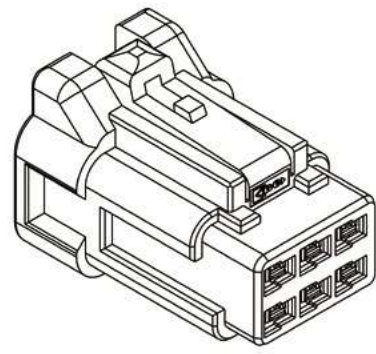
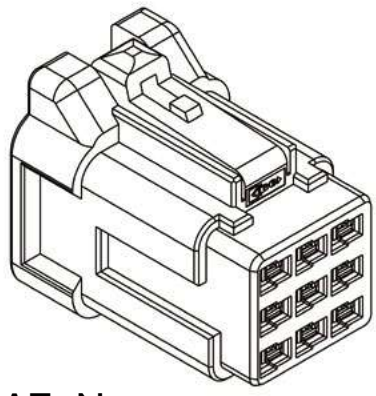
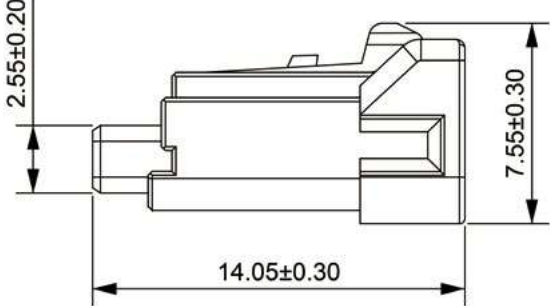
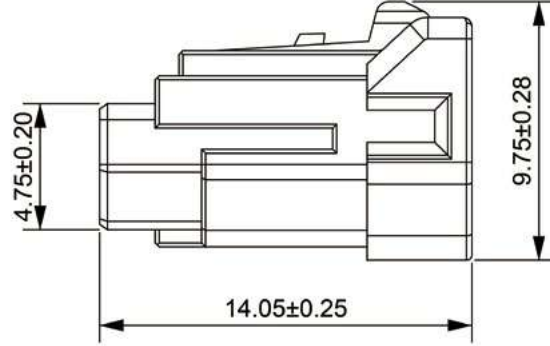
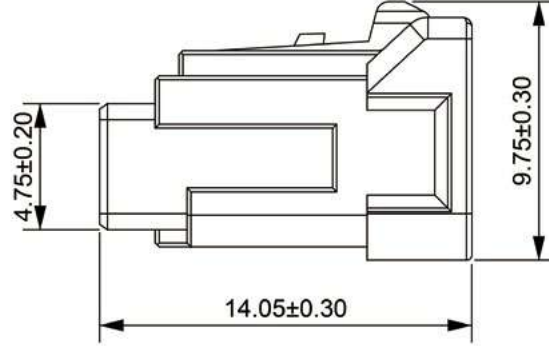
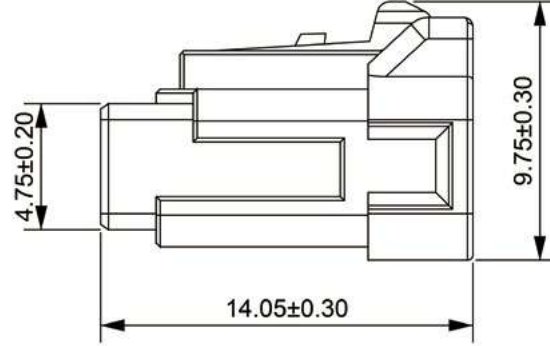
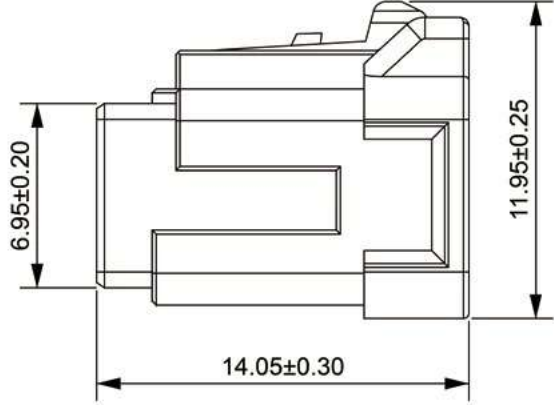
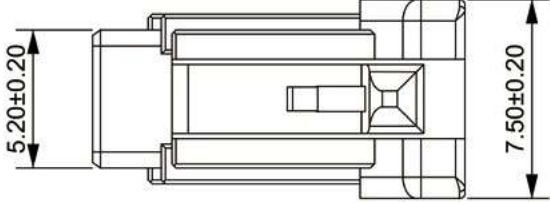
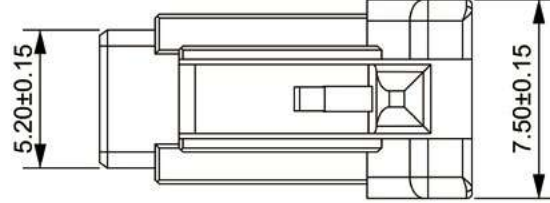
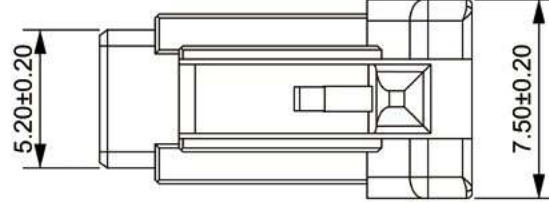
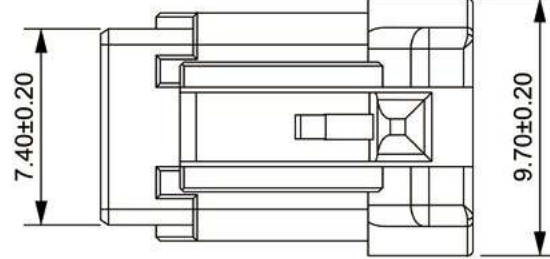
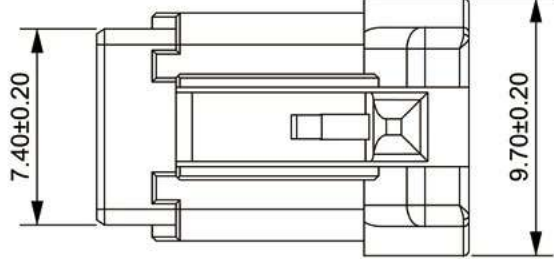
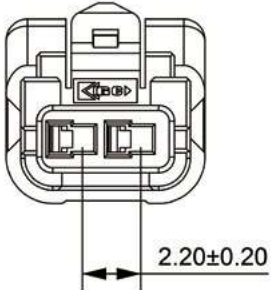
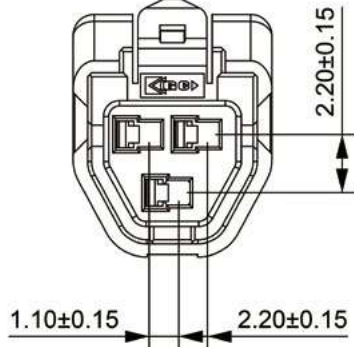
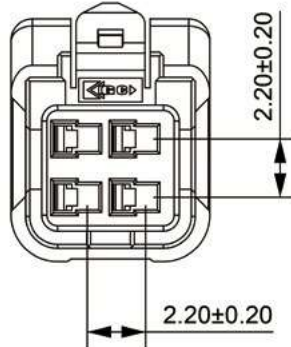
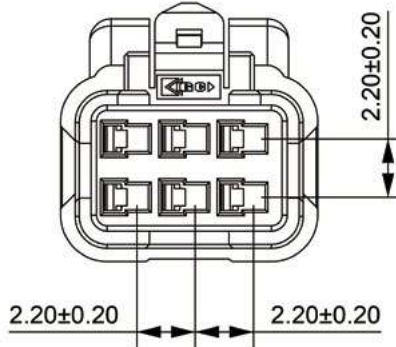
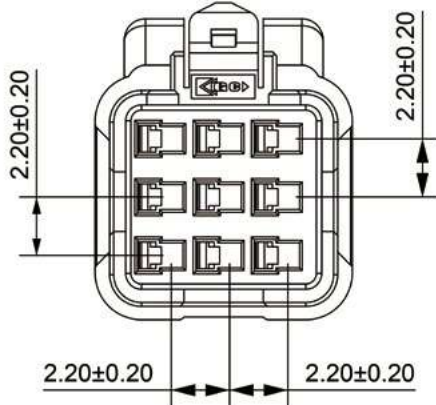
Environmental performance	
Operating temperature	-40°C~105°C
Mechanical vibration	Frequency: 10~55Hz, amplitude: 0.75mm, 10 cycles for each X/Y/Z axis
Mechanical shock	Acceleration: 490 m/s ² for 11 seconds, 3 times for each X/Y/Z axis
Moisture resistance	Temperature: 40±2°C, humidity: 90~95%, placed for 96 hours
Temperature cycle	-55°C to 85°C / 5 cycles

Mechanical performance	
Durability	Tin: 30 cycles Gold: 50 cycles
Note: One cycle includes one insertion and one withdrawal	

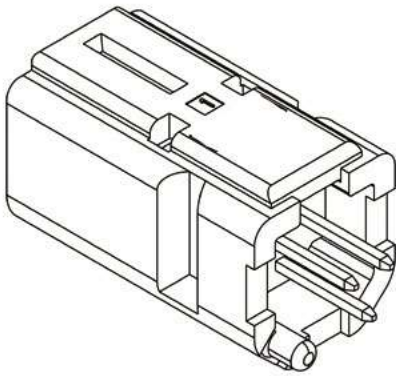
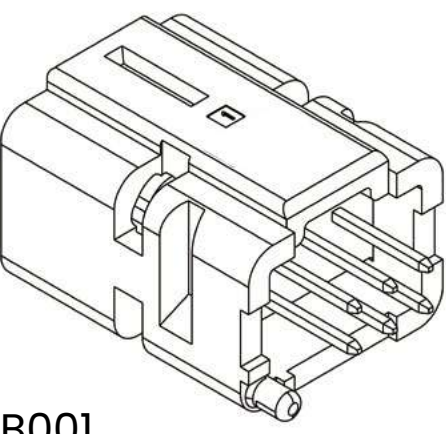
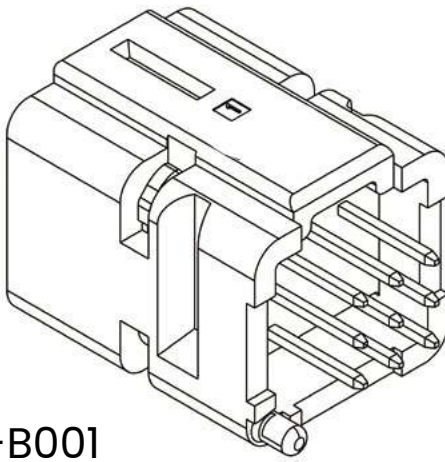
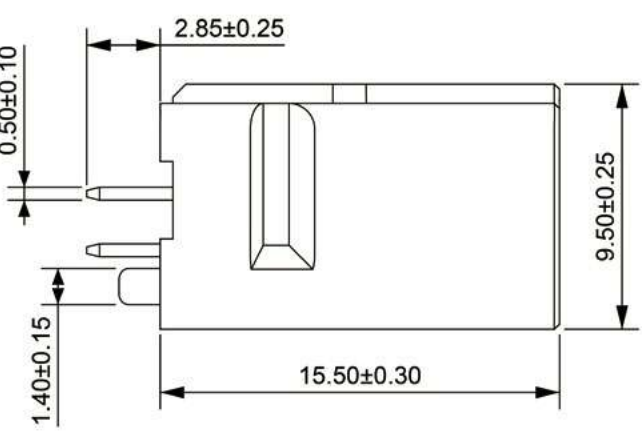
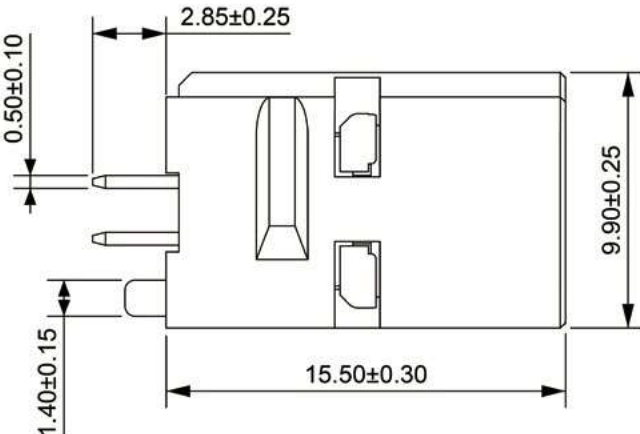
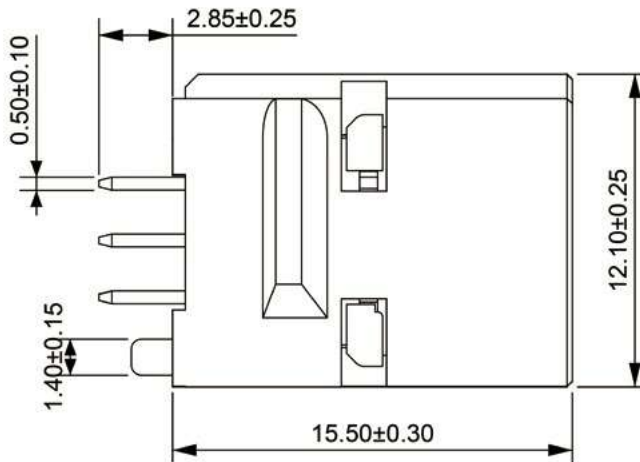
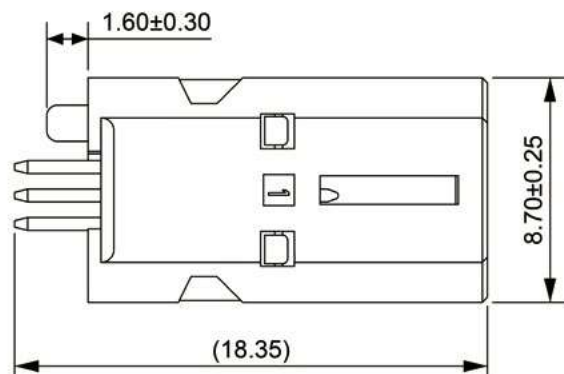
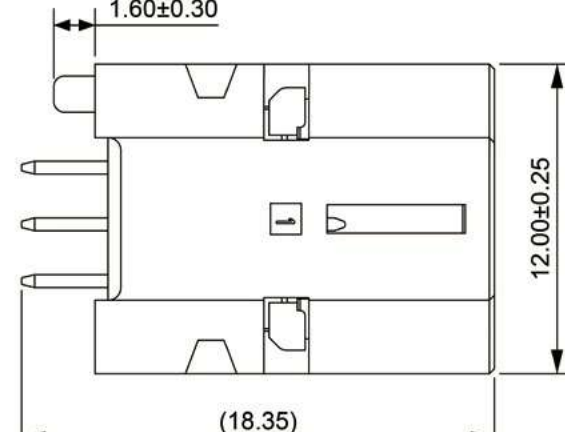
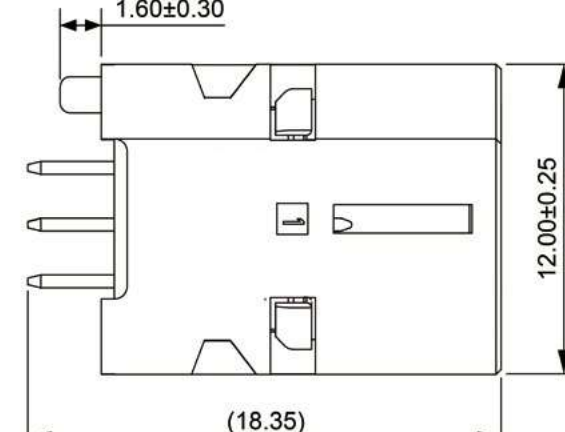
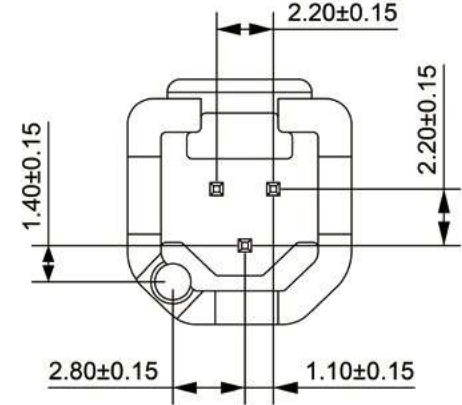
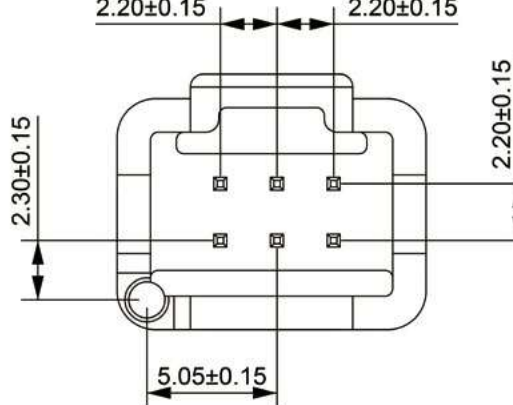
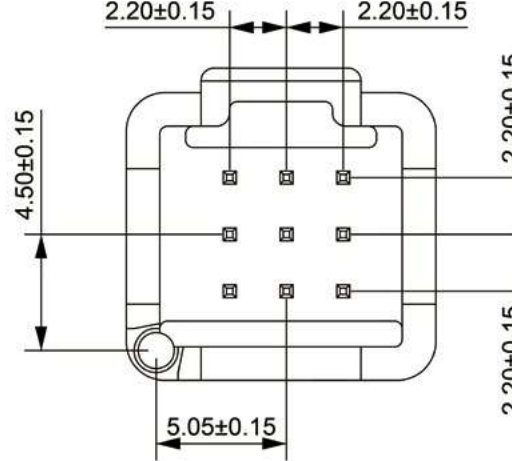
Male socket specification (wire-side)

 2Pin RAGZI81-02AAN-N	 3Pin RAHW072-03AAZ-N	 4Pin RAGZI82-02AAN-N	 6Pin RAHW052-03AAZ-N	 9Pin RAGZI83-03ANN-N
				
				
				

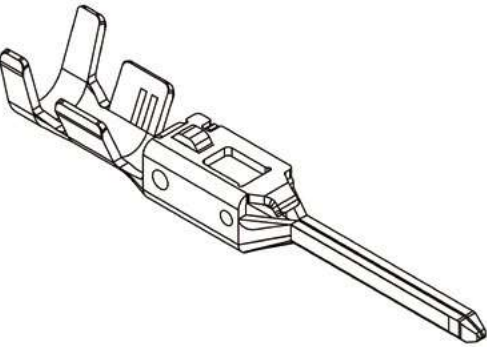
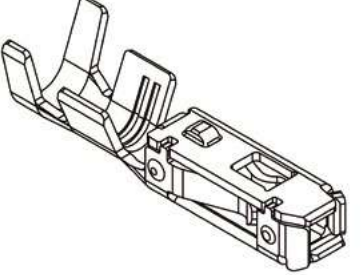
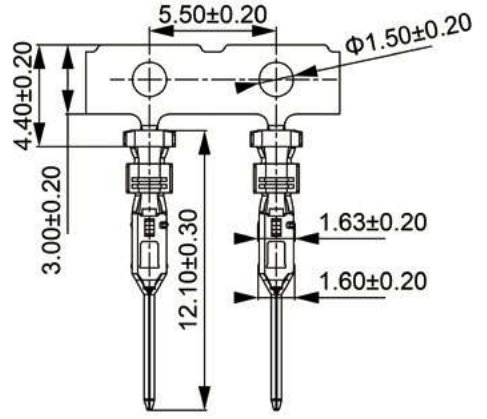
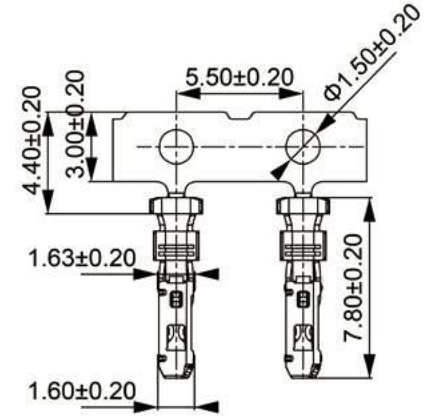
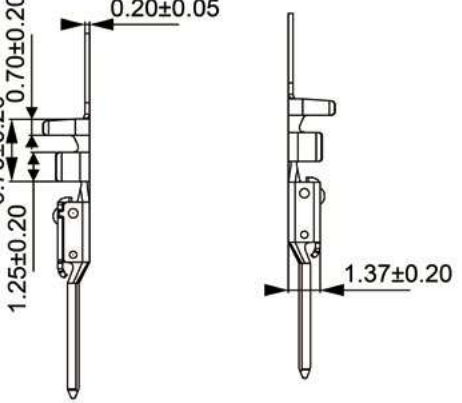
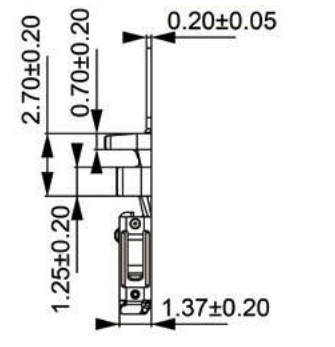
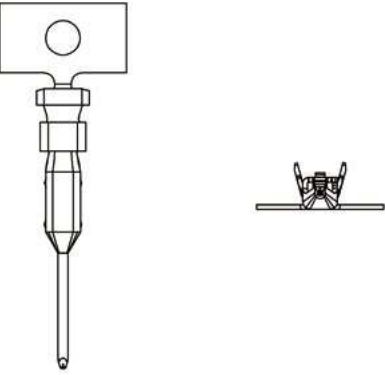
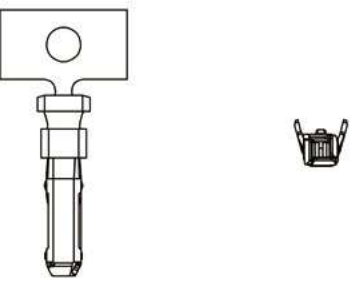
Female socket specification (wire-side)

2Pin	3Pin	4Pin	6Pin	9Pin
 RAGZI71-02AAT-N	 RAHW082-03AAT-N	 RAGZI72-02AAT-N	 AHW062-03AAT-N	 RAGZI73-03AAT-N
				
				
				

Male socket specification (board-side)

3Pin	6Pin	9Pin
 RGZWA202-B001	 RGZWA201-B001	 RGZWA301-B001
 2.85 ± 0.25 0.50 ± 0.10 1.40 ± 0.15 15.50 ± 0.30 9.50 ± 0.25	 2.85 ± 0.25 0.50 ± 0.10 1.40 ± 0.15 15.50 ± 0.30 9.90 ± 0.25	 2.85 ± 0.25 0.50 ± 0.10 1.40 ± 0.15 15.50 ± 0.30 12.10 ± 0.25
 1.60 ± 0.30 8.70 ± 0.25 (18.35)	 1.60 ± 0.30 12.00 ± 0.25 (18.35)	 1.60 ± 0.30 12.00 ± 0.25 (18.35)
 2.20 ± 0.15 1.40 ± 0.15 2.20 ± 0.15 2.80 ± 0.15 1.10 ± 0.15	 2.20 ± 0.15 2.20 ± 0.15 2.30 ± 0.15 5.05 ± 0.15 2.20 ± 0.15	 2.20 ± 0.15 2.20 ± 0.15 4.50 ± 0.15 5.05 ± 0.15 2.20 ± 0.15 2.20 ± 0.15

Terminal specification

RARZIE1-01/02R2AB	RARZIE2-01/02R2AB
	
 5.50 ± 0.20 $\Phi 1.50 \pm 0.20$ 4.40 ± 0.20 3.00 ± 0.20 12.10 ± 0.30 1.63 ± 0.20 1.60 ± 0.20	 5.50 ± 0.20 $\Phi 1.50 \pm 0.20$ 4.40 ± 0.20 3.00 ± 0.20 1.63 ± 0.20 7.80 ± 0.20 1.60 ± 0.20
 0.20 ± 0.05 0.70 ± 0.20 0.70 ± 0.20 1.25 ± 0.20 1.37 ± 0.20	 0.20 ± 0.05 2.70 ± 0.20 0.70 ± 0.20 1.25 ± 0.20 1.37 ± 0.20
	

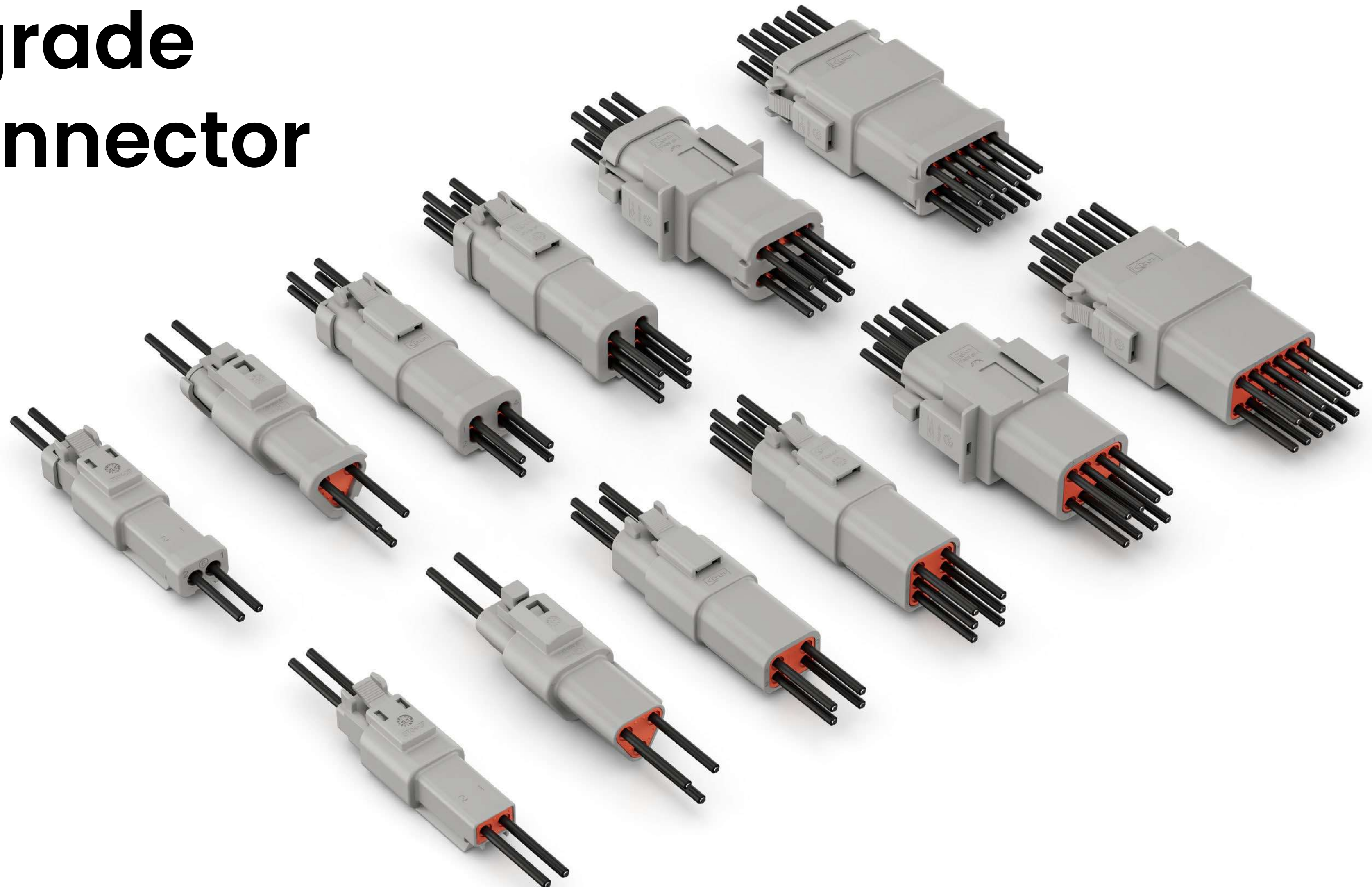
Automotive-grade waterproof connector RGT Series

Maximum Current: 13A/Pin

Connection Type: wire-to-wire



IP68
Waterproof





Automotive



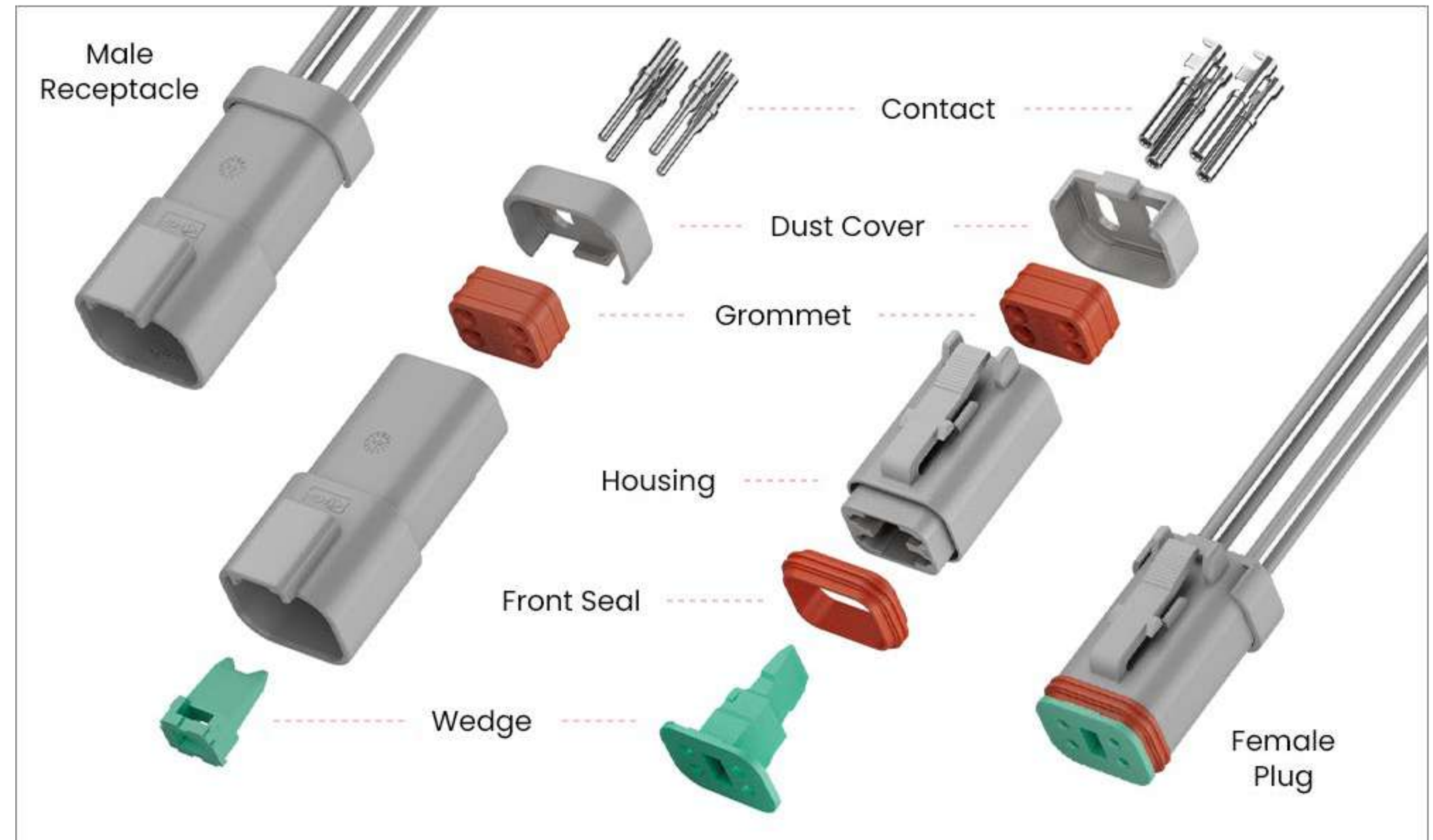
Agricultural Machinery



Industrial



Telecommunications



The RGT Series wire-to-wire connectors feature a waterproof and anti-loosening housing design, ensuring a secure and tightly sealed connection for harsh environments. Each contact supports up to 13A of current with press-fit terminals.

This is a high-performance, cost-effective solution commonly used in heavy-duty equipment, agricultural machinery, automotive systems, new energy applications, and other devices requiring reliable interconnects.

Type	Pin No.	Finished product part number	Housing kit part number	Terminal part number	Wedge Part Number
Male Receptacle	2	RGT-02P (Without Cover)	RAGZ011-02APA	RGTZ1E2-010IBL	RAGZ051-02AAL
		RGT-02P-F (With Cover)	RAGZ021-02APA		
	3	RGT-03P (Without Cover)	RAGZ011-03APA	RGTZ1E2-010IBL	RAGZ020-03AAL
		RGT-03P-F (With Cover)	RAGZ021-03APA		
	4	RGT-04P (Without Cover)	RAGZ011-04APA	RGTZ1E2-010IBL	RAGZ161-04AAL
		RGT-04P-F (With Cover)	RAGZ021-04APA		
	6	RGT-06P (Without Cover)	RAGZ011-06APA	RGTZ1E2-010IBL	RAGZ222-06AAL
		RGT-06P-F (With Cover)	RAGZ021-06APA		
	8	RGT-08P (Without Cover)	RAGZ011-08APA	RGTZ1E2-010IBL	RAGZ232-08AAL
		RGT-08P-F (With Cover)	RAGZ021-08APA		
	12	RGT-12P (Without Cover)	RAGZ011-12APA	RGTZ1E2-010IBL	RAGZ242-12AAL
		RGT-12P-F (With Cover)	RAGZ021-12APA		
Female Plug	2	RGT-02S (Without Cover)	RAGZ081-02APA	RARZ1C4-0101AB	RAGZ071-02AAL
		RGT-02S-F (With Cover)	RAGZ091-02APA		
	3	RGT-03S (Without Cover)	RAGZ070-03APA	RARZ1C4-0101AB	RAGZ050-03AAL
		RGT-03S-F (With Cover)	RAGZ060-03APA		
	4	RGT-04S (Without Cover)	RAGZ121-04APA	RARZ1C4-0101AB	RAGZ111-04AAL
		RGT-04S-F (With Cover)	RAGZ131-04APA		
	6	RGT-06S (Without Cover)	RAGZ372-06APA	RARZ1C4-0101AB	RAGZ292-06AAL
		RGT-06S-F (With Cover)	RAGZ342-06APA		
	8	RGT-08S (Without Cover)	RAGZ382-08APA	RARZ1C4-0101AB	RAGZ312-08AAL
		RGT-08S-F (With Cover)	RAGZ352-08APA		
	12	RGT-12S (Without Cover)	RAGZ392-12APA	RARZ1C4-0101AB	RAGZ332-12AAL
		RGT-12S-F (With Cover)	RAGZ362-12APA		

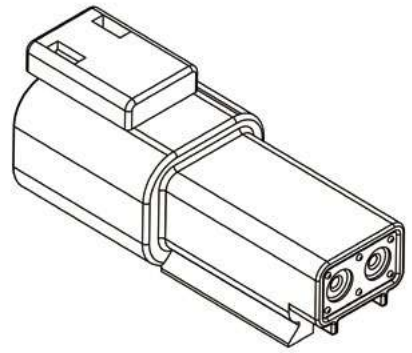
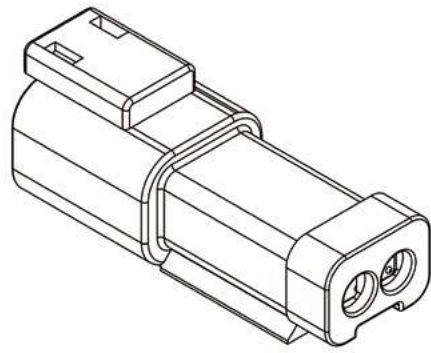
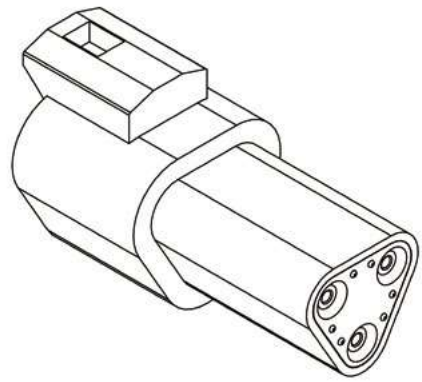
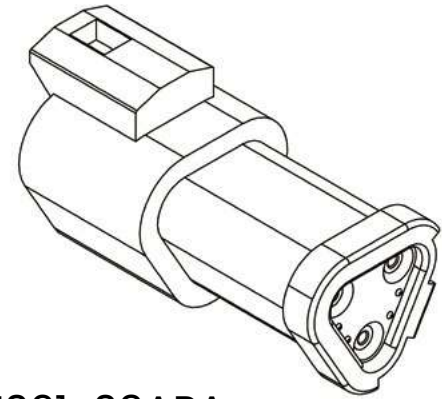
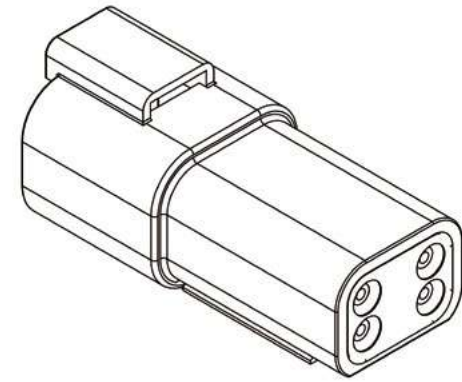
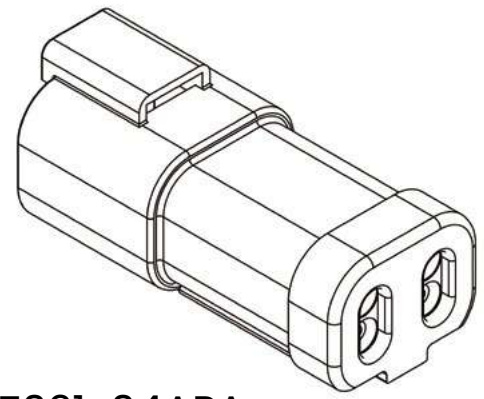
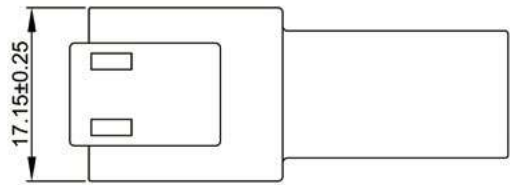
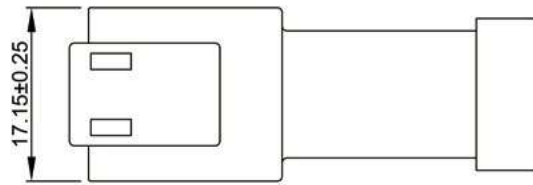
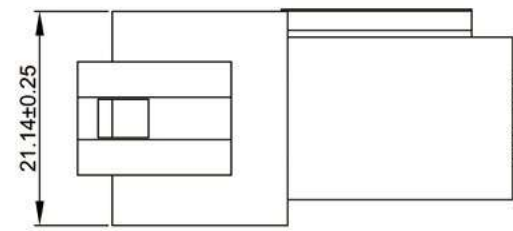
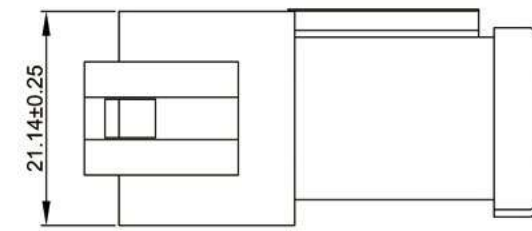
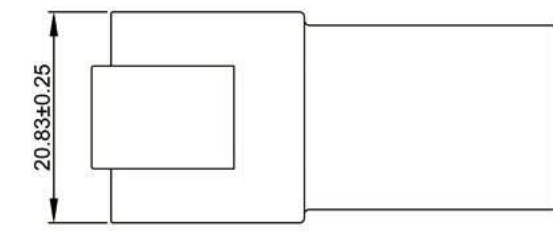
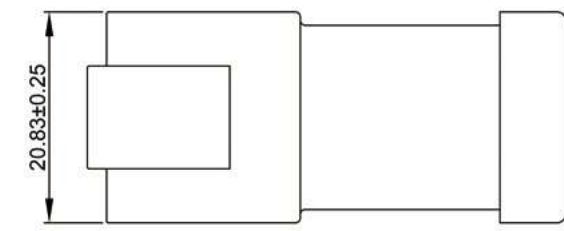
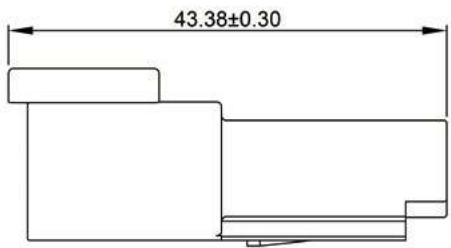
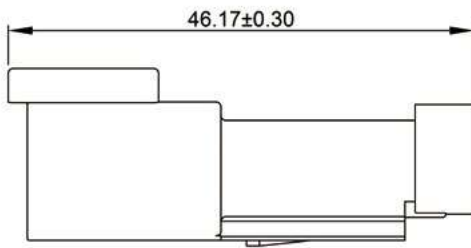
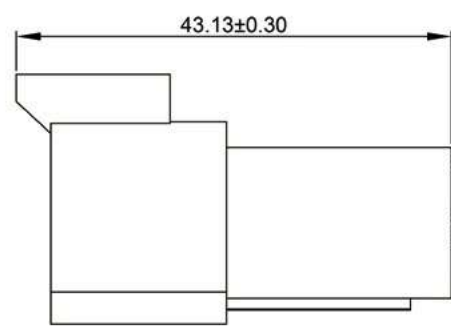
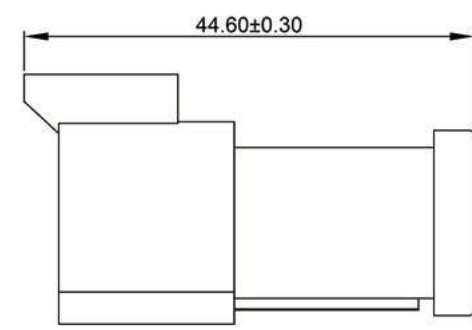
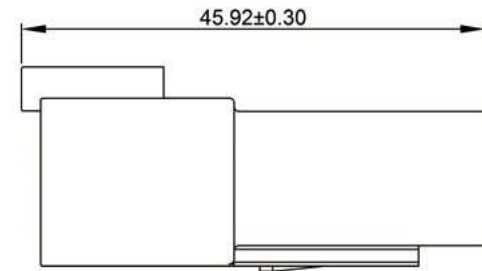
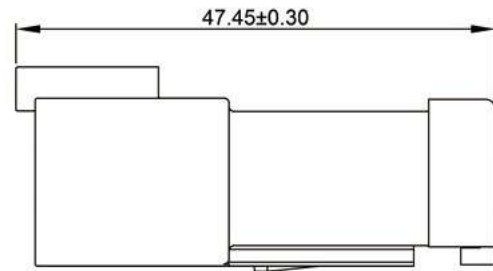
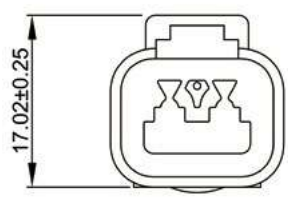
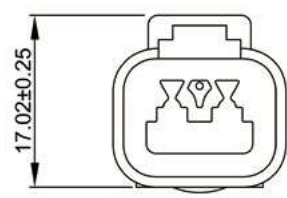
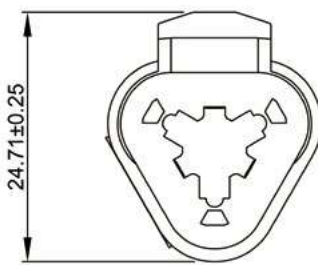
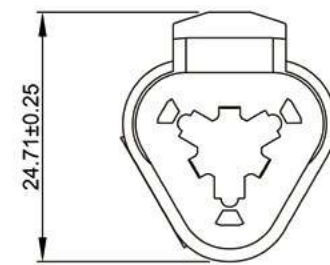
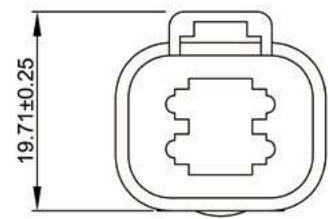
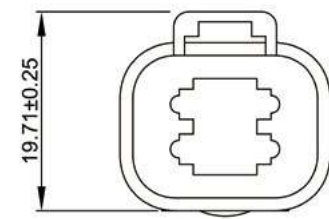
Material	
Plastic material	PA66
Terminal material	Female socket: Phosphor Bronze; Male socket: Brass
Plating	Nickel: 50~100μ"
Wires	0.5~2.00mm² (AWG20~AWG14)

Electrical performance	
Rated voltage	250V AC/DC
Rated current	13A (14AWG / 2.00mm²) (16AWG / 1.00mm²) 10A (18AWG / 0.80mm²) 7.5A (20AWG / 0.50mm²)
Insulation resistance	≥1000MΩ
Contact resistance	≤30mΩ
Withstand voltage	1500V AC

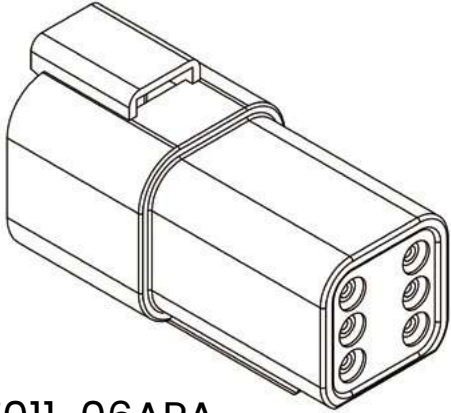
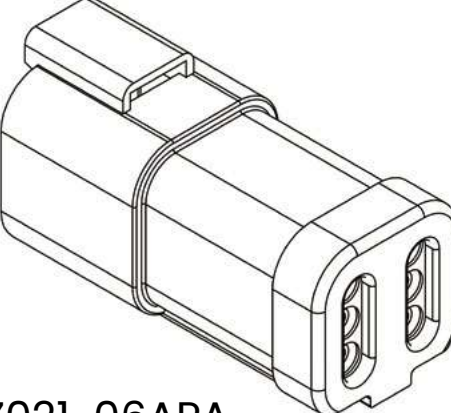
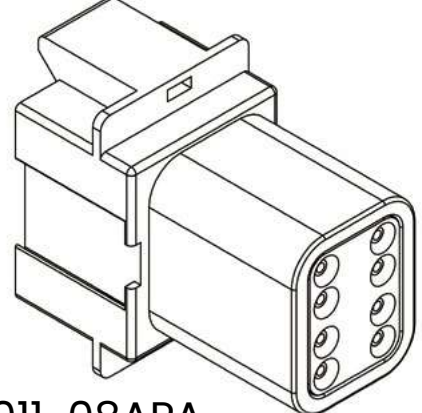
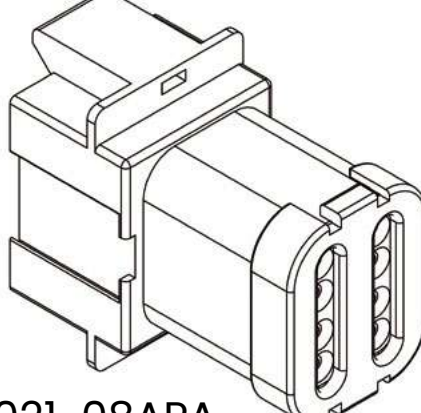
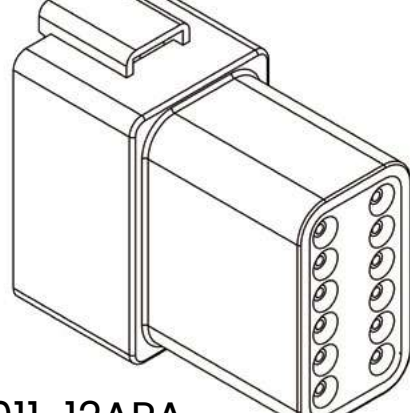
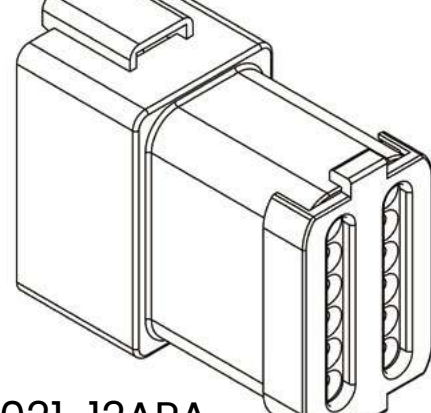
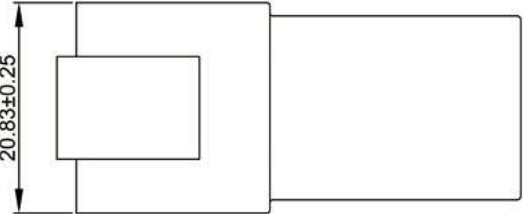
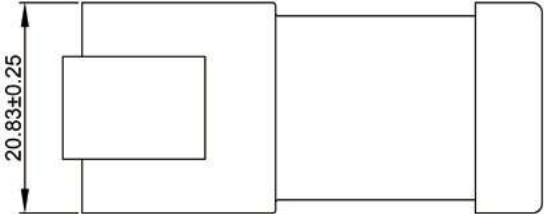
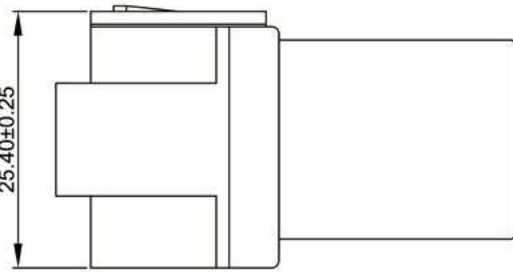
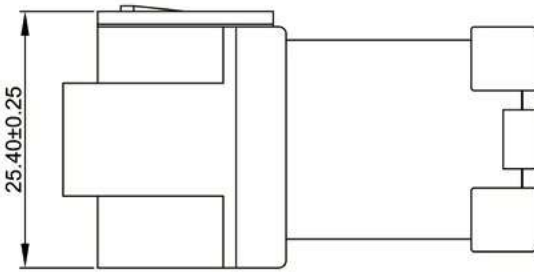
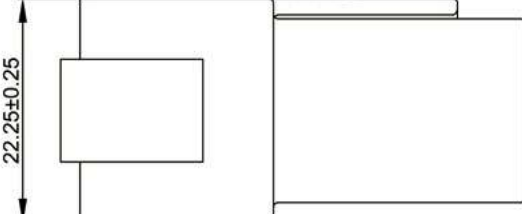
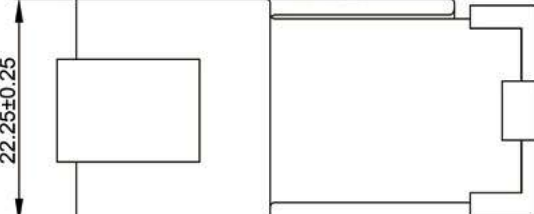
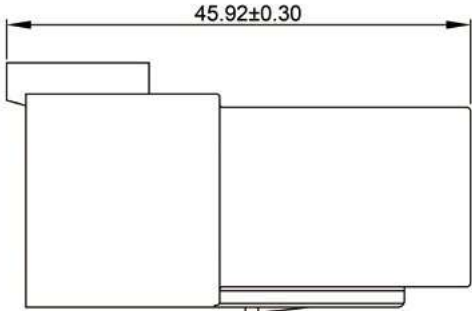
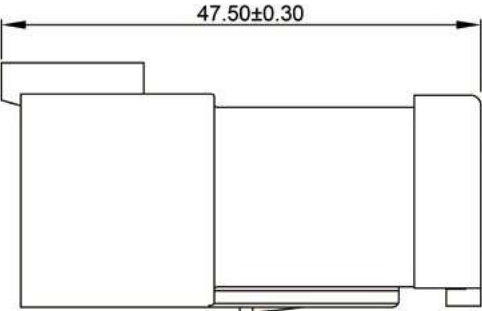
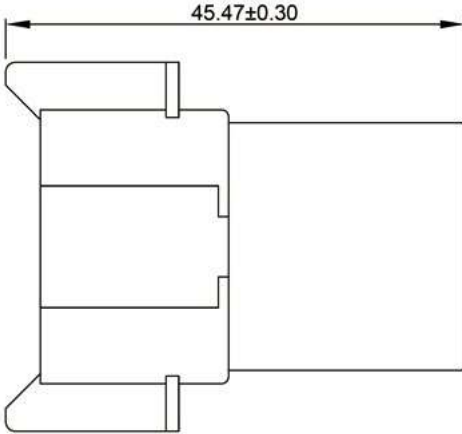
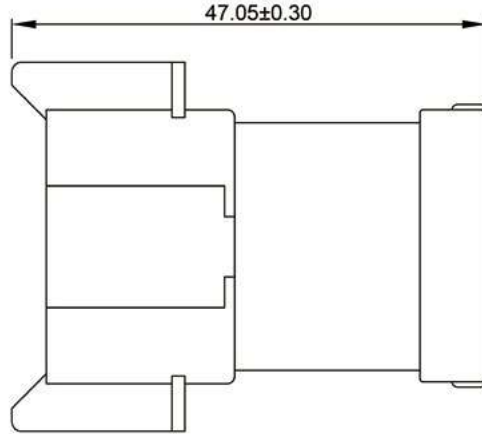
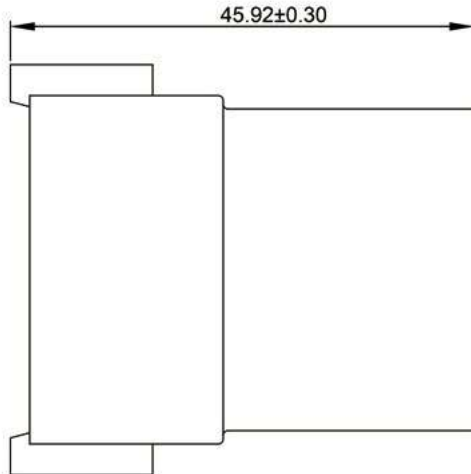
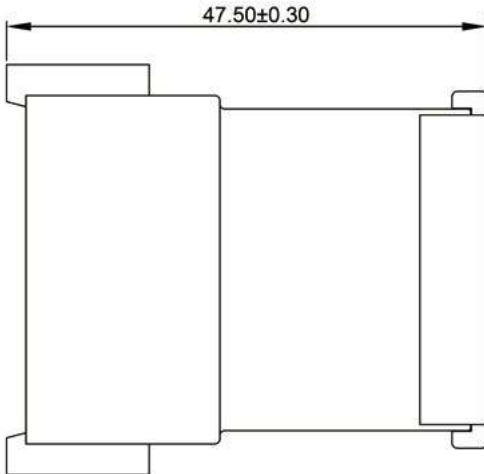
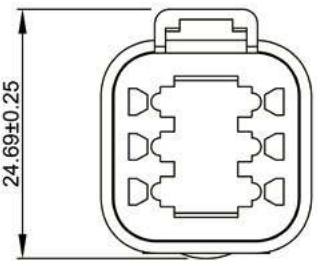
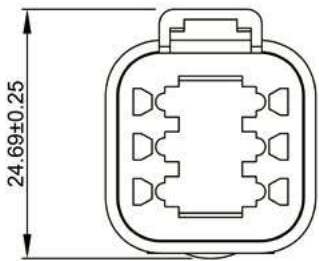
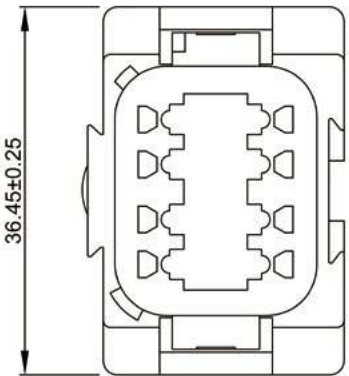
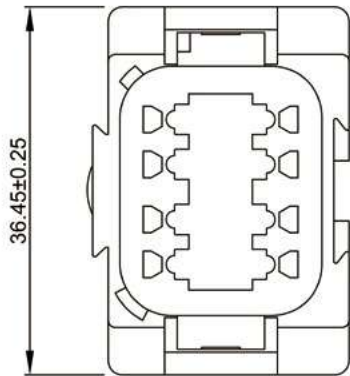
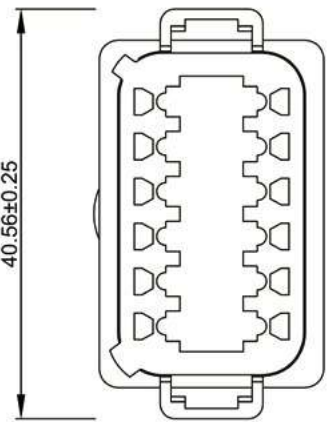
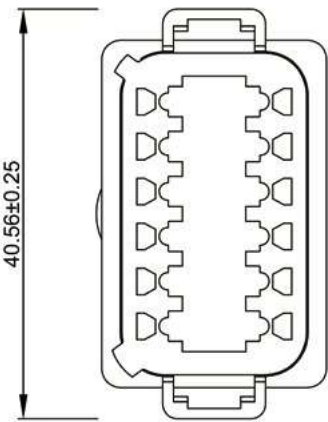
Environmental performance	
Operating temperature	-55℃ ~125℃
Waterproof rating	IP68/IP6K9K
Mechanical vibration	Frequency: 10~2000 Hz, 20 minutes per cycle, acceleration 20G, lasting 12 hours, 4 hours each on X/Y/Z axes
Mechanical shock	Acceleration: 50g; Pulse width: 11 ms; Repeated for 10 cycles
Thermal shock	-55 to 125 °C, 30 minutes each, 5 cycles
High temperature life	100 hours continuously at 125 °C
Salt spray	96 hours exposure to 5% salt solution

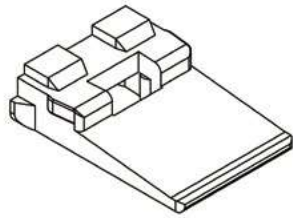
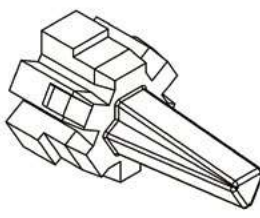
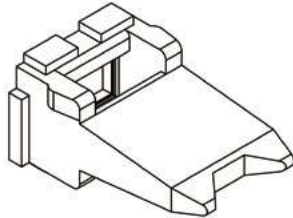
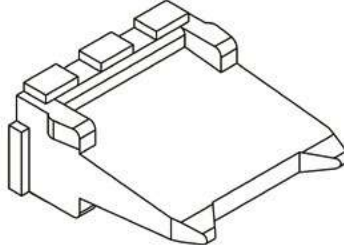
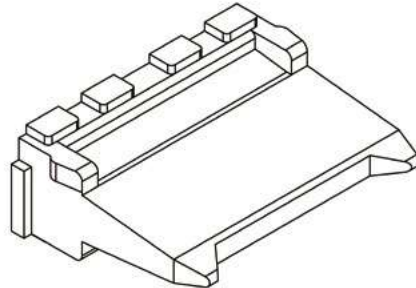
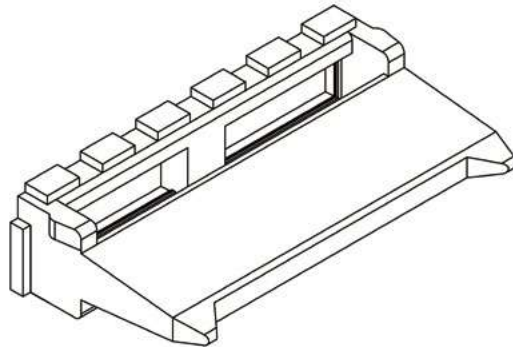
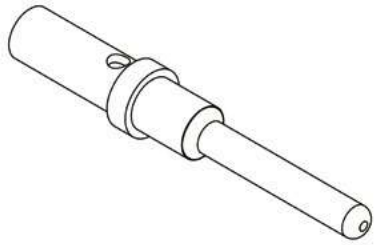
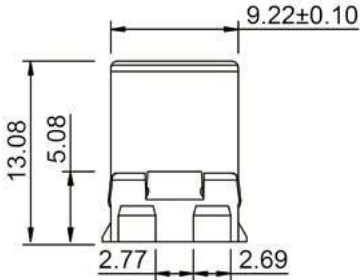
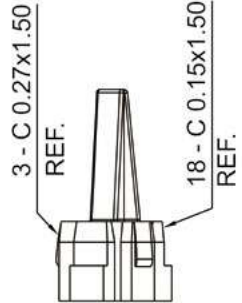
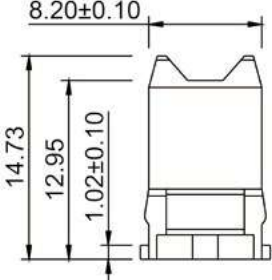
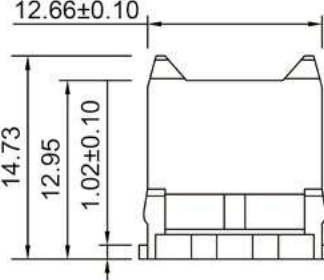
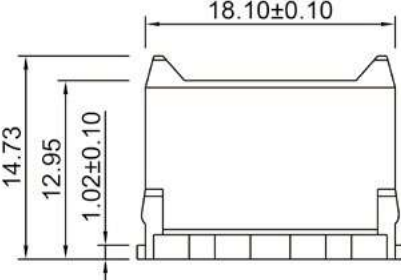
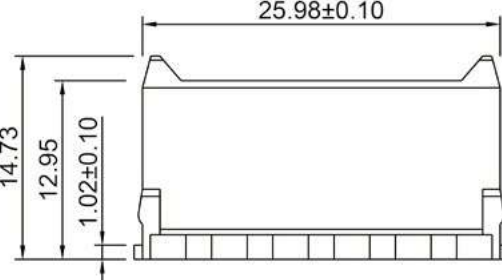
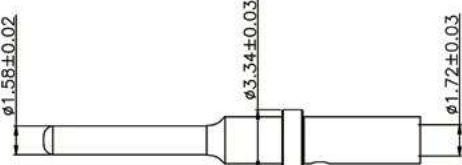
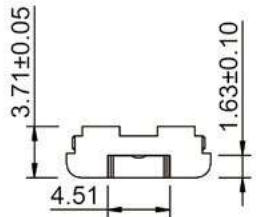
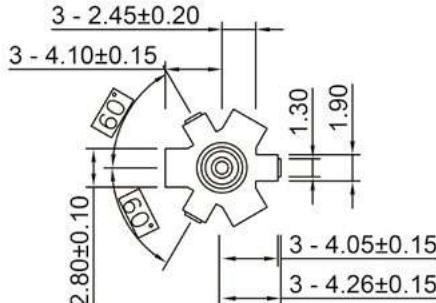
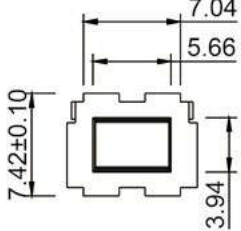
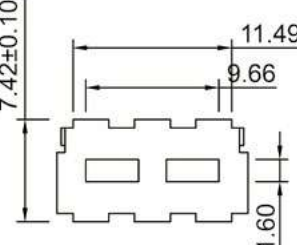
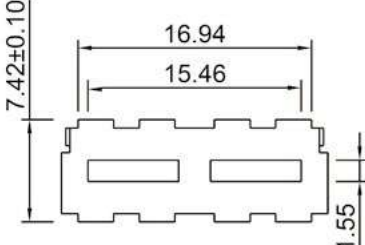
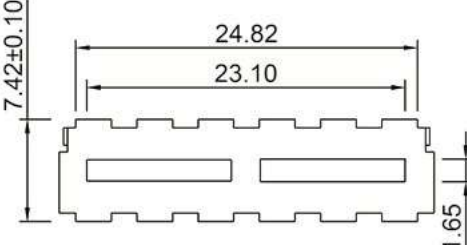
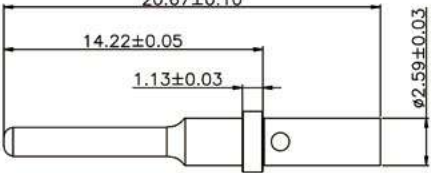
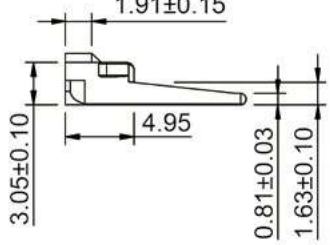
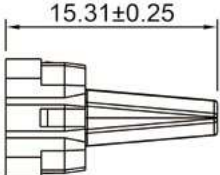
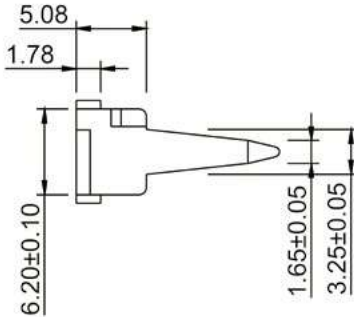
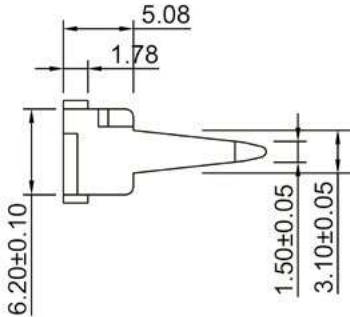
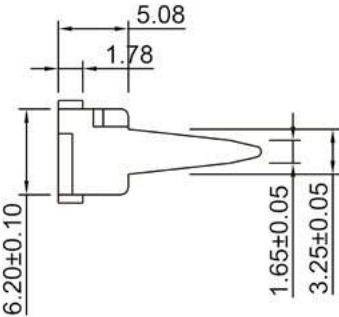
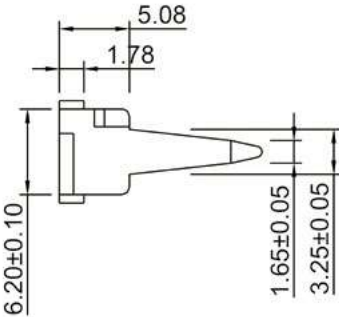
Mechanical performance	
Durability	100 cycles

Male Receptacle Specifications

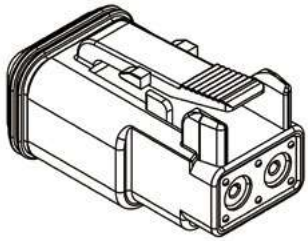
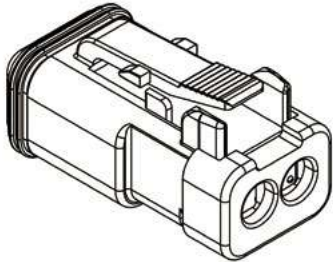
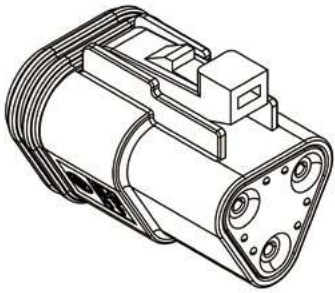
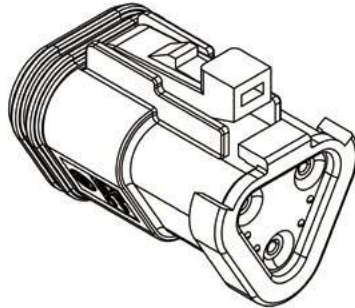
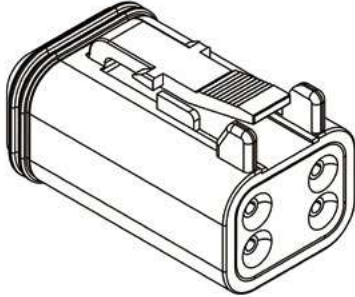
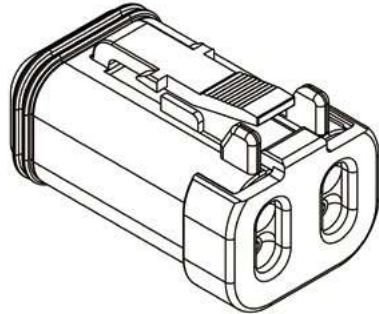
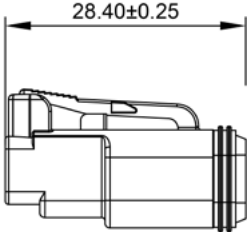
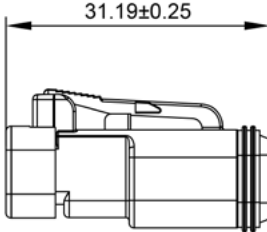
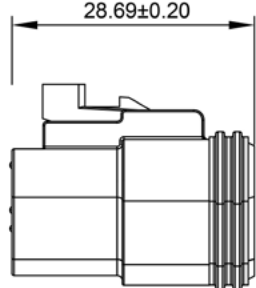
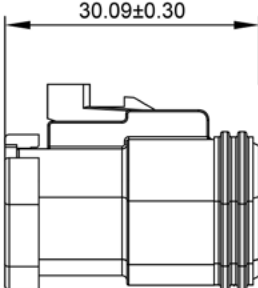
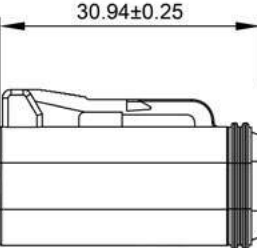
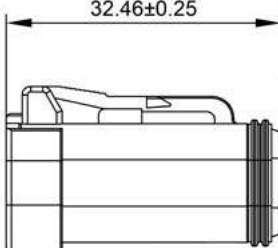
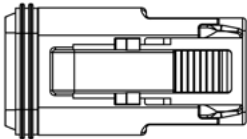
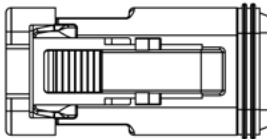
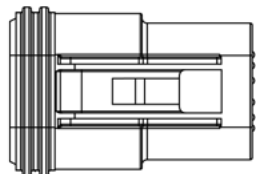
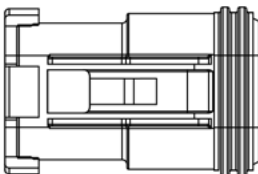
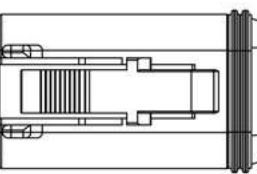
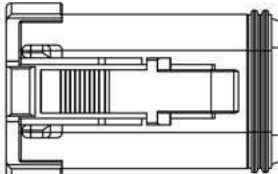
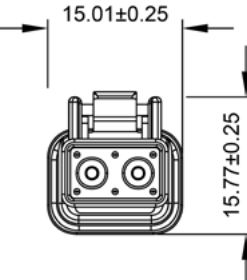
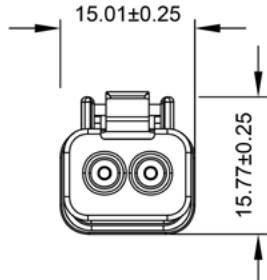
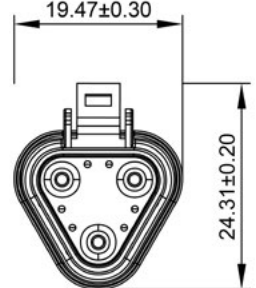
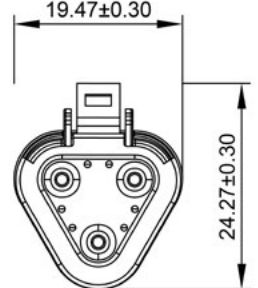
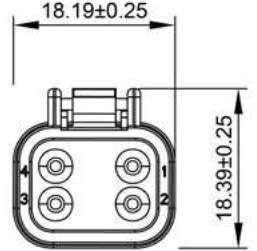
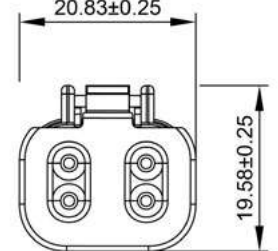
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 17.15±0.25	 17.15±0.25	 21.14±0.25	 21.14±0.25	 20.83±0.25	 20.83±0.25
 43.38±0.30	 46.17±0.30	 43.13±0.30	 44.60±0.30	 45.92±0.30	 47.45±0.30
 17.02±0.25	 17.02±0.25	 24.71±0.25	 24.71±0.25	 19.71±0.25	 19.71±0.25

Male Receptacle Specifications

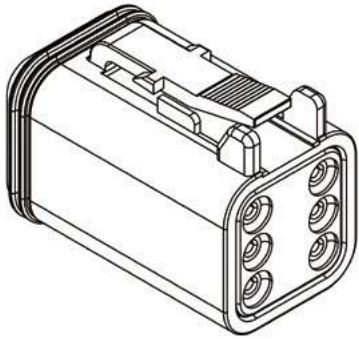
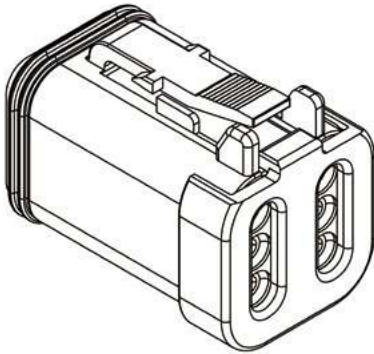
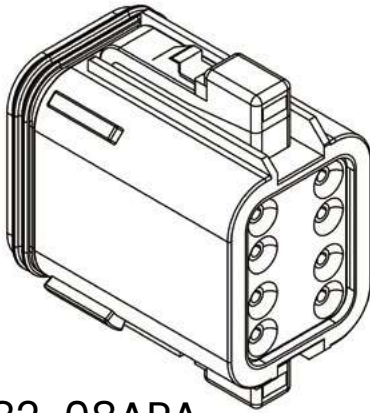
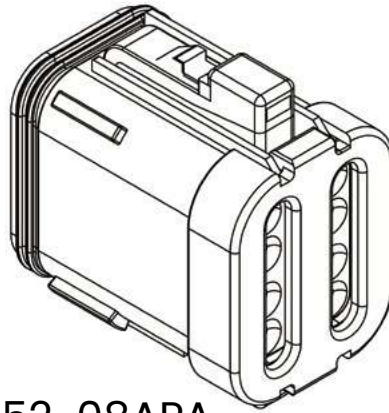
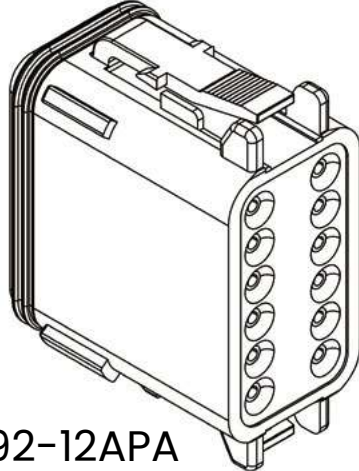
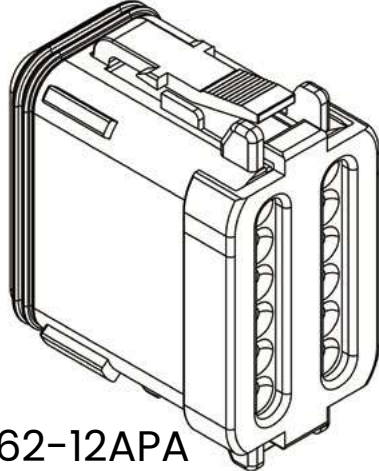
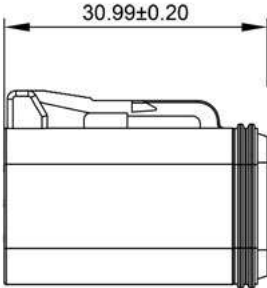
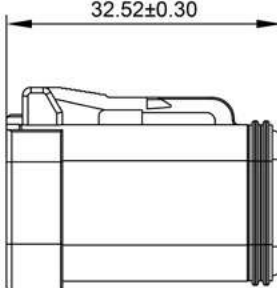
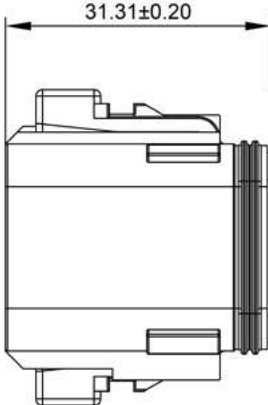
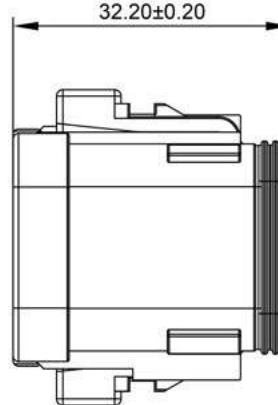
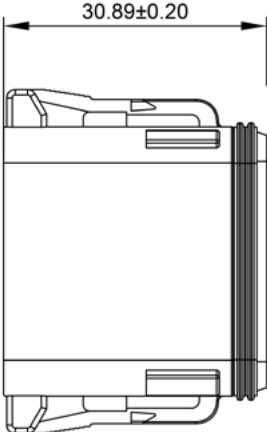
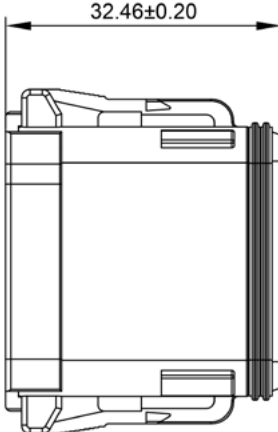
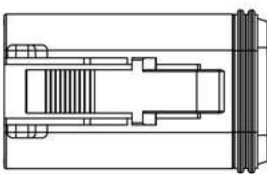
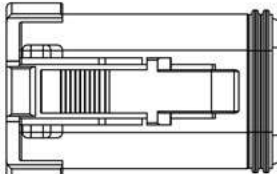
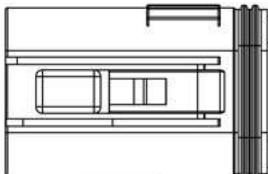
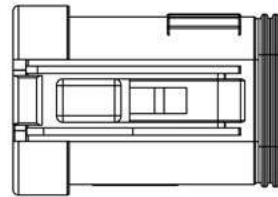
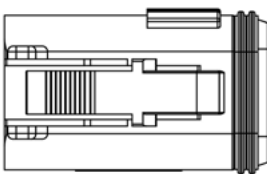
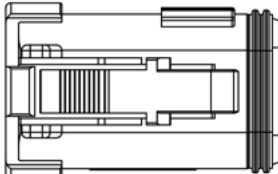
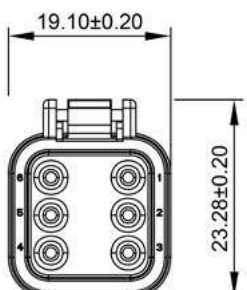
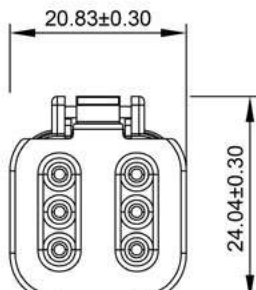
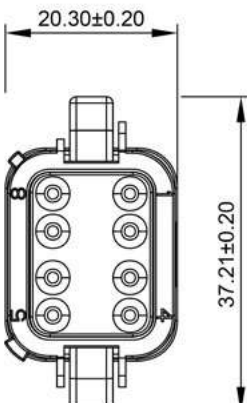
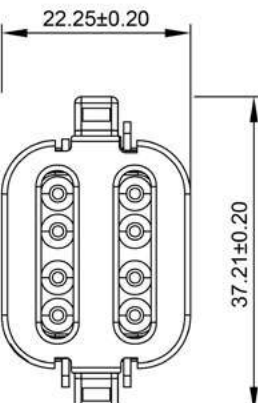
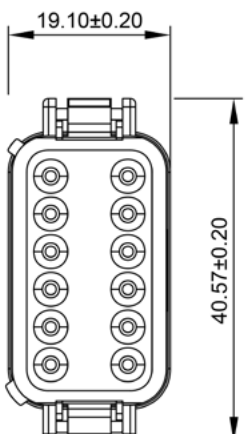
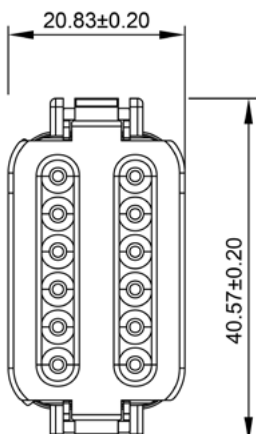
 RAGZ011-06APA	 RAGZ021-06APA	 RAGZ011-08APA	 RAGZ021-08APA	 RAGZ011-12APA	 RAGZ021-12APA
 20.83±0.25	 20.83±0.25	 25.40±0.25	 25.40±0.25	 22.25±0.25	 22.25±0.25
 45.92±0.30	 47.50±0.30	 45.47±0.30	 47.05±0.30	 45.92±0.30	 47.50±0.30
 24.69±0.25	 24.69±0.25	 36.45±0.25	 36.45±0.25	 40.56±0.25	 40.56±0.25

Male Receptacle Wedge Specifications						Male Terminal Specifications
						
RAGZ051-02AAL	RAGZ020-03AAL	RAGZ161-04AAL	RAGZ222-06AAL	RAGZ232-08AAL	RAGZ242-12AAL	RGTZIE2-0101BL
						
						
						

Female Plug Specifications

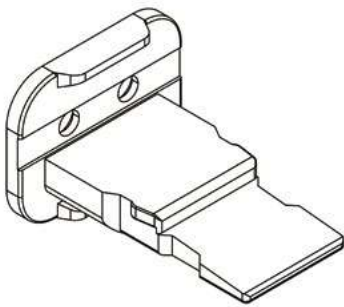
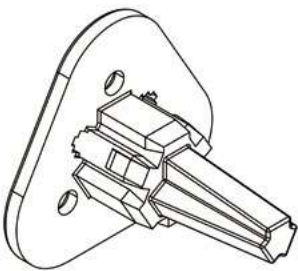
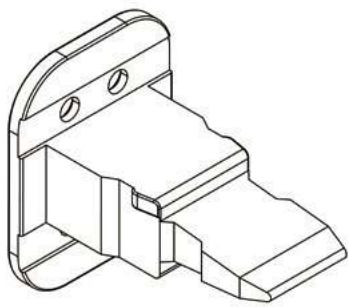
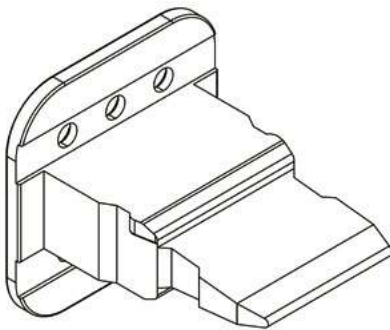
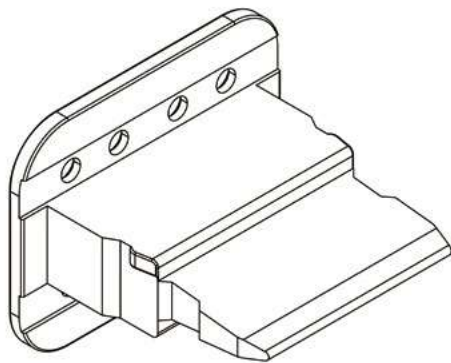
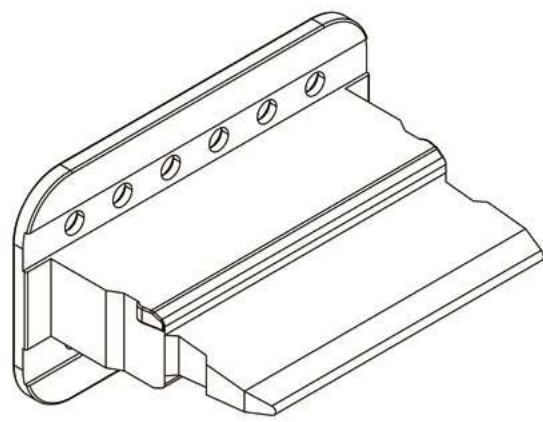
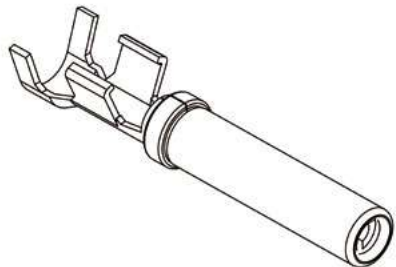
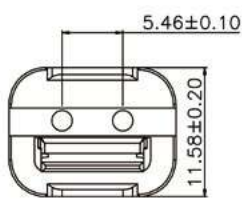
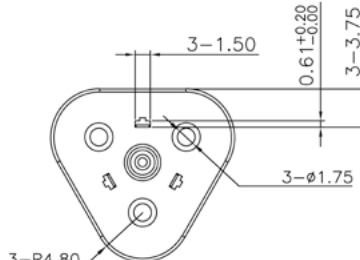
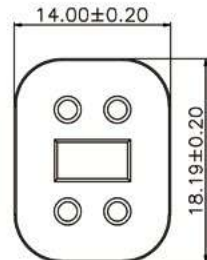
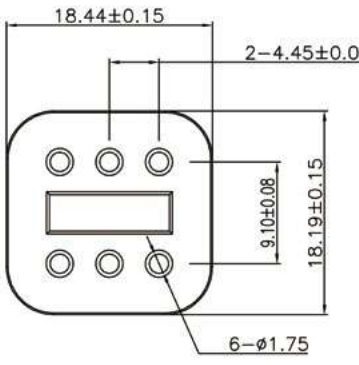
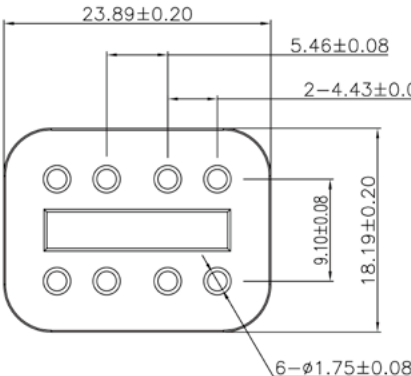
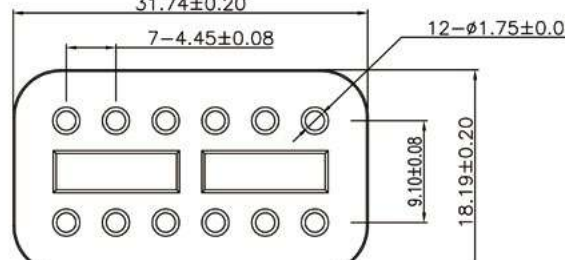
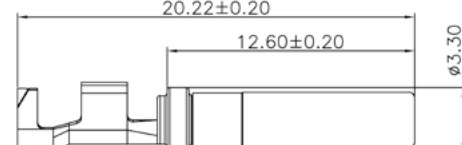
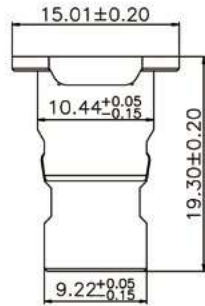
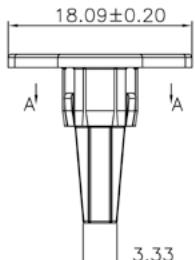
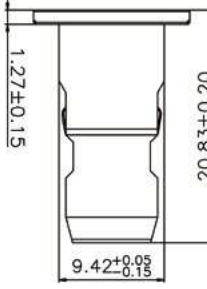
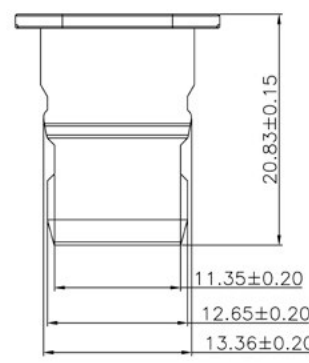
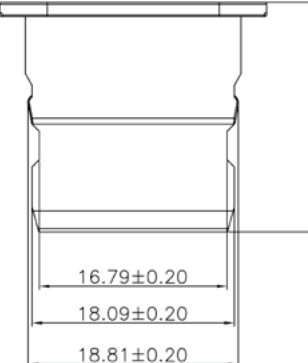
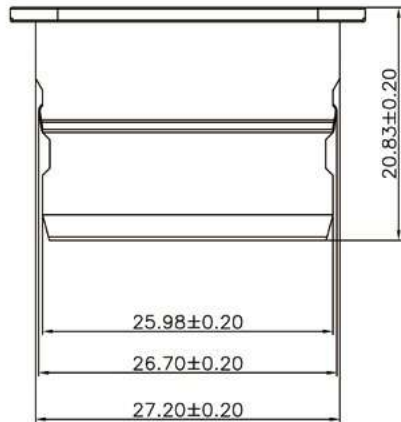
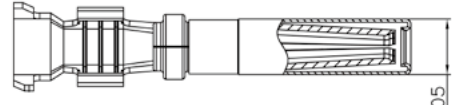
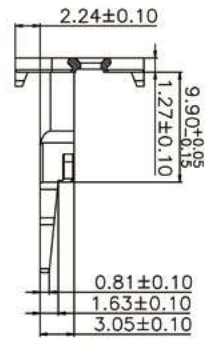
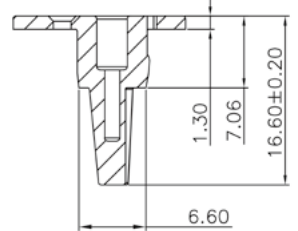
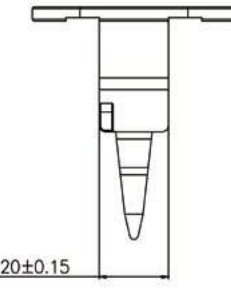
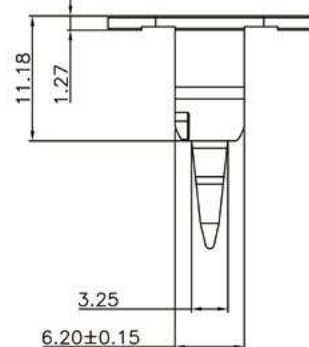
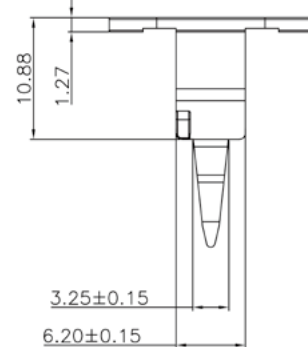
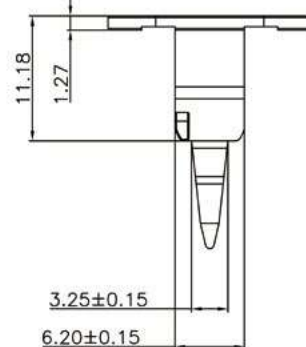
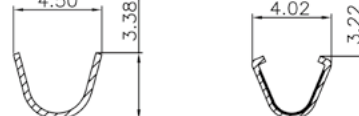
 RAGZ081-02APA	 RAGZ091-02APA	 RAGZ070-03APA	 RAGZ060-03APA	 RAGZ121-04APA	 RAGZ131-04APA
 28.40±0.25	 31.19±0.25	 28.69±0.20	 30.09±0.30	 30.94±0.25	 32.46±0.25
					
 15.01±0.25 15.77±0.25	 15.01±0.25 15.77±0.25	 19.47±0.30 24.31±0.20	 19.47±0.30 24.27±0.30	 18.19±0.25 18.39±0.25	 20.83±0.25 19.58±0.25

Female Plug Specifications

 RAGZ372-06APA	 RAGZ342-06APA	 RAGZ382-08APA	 RAGZ352-08APA	 RAGZ392-12APA	 RAGZ362-12APA
 30.99±0.20	 32.52±0.30	 31.31±0.20	 32.20±0.20	 30.89±0.20	 32.46±0.20
					
 19.10±0.20 23.28±0.20	 20.83±0.30 24.04±0.30	 20.30±0.20 37.21±0.20	 22.25±0.20 37.21±0.20	 19.10±0.20 40.57±0.20	 20.83±0.20 40.57±0.20

Female Plug Wedge Specifications

Female Terminal Specifications

 RAGZ071-02AAL	 RAGZ050-03AAL	 RAGZ111-04AAL	 RAGZ292-06AAL	 RAGZ312-08AAL	 RAGZ332-12AAL	 RARZ1C4-0101AB
 5.46±0.10 11.56±0.20	 3-1.50 0.61±0.20 3-3.75 3-Ø1.75 3-R4.80	 14.00±0.20 18.19±0.20	 18.44±0.15 2-4.45±0.08 9.10±0.08 18.19±0.15 6-Ø1.75	 23.89±0.20 5.46±0.08 2-4.43±0.08 9.10±0.08 18.19±0.20 6-Ø1.75±0.08	 31.74±0.20 7-4.45±0.08 12-Ø1.75±0.08 9.10±0.08 18.19±0.20	 20.22±0.20 12.60±0.20 Ø3.30
 15.01±0.20 10.44±0.08 19.30±0.20 9.22±0.08	 18.09±0.20 3.33	 51.0±0.2 20.83±0.20 9.42±0.08	 20.83±0.15 11.35±0.20 12.65±0.20 13.36±0.20	 20.53±0.20 16.79±0.20 18.09±0.20 18.81±0.20	 20.83±0.20 25.98±0.20 26.70±0.20 27.20±0.20	 Ø2.82±0.05
 2.24±0.10 0.10±0.06 0.81±0.10 1.63±0.10 3.05±0.10	 1.30 7.06 16.60±0.20 6.60	 6.20±0.15	 11.18 1.27 3.25 6.20±0.15	 10.88 1.27 3.25±0.15 6.20±0.15	 11.18 1.27 3.25±0.15 6.20±0.15	 4.50 3.38 4.02 3.22

Singapore (HQ)

1 Fusionopolis Place
Unit 320 Level 03
Galaxis West Lobby
Singapore 138522

Hong Kong Office

RM409, Tower One
Silvercord Centre
30 Canton Road, TST, Kowloon
Hong Kong

Germany Operation Office

45731 Waltrop
Richtstrecke 13
Germany

China Operation Office

Unit1106-1108,
International Science Building
Hongshan Road, Xiangzhou, Zhuhai
Guangdong, China

Phone: +49 2309 647 9030

Phone: +86 756 2605001

Email: info@rts-connect.com