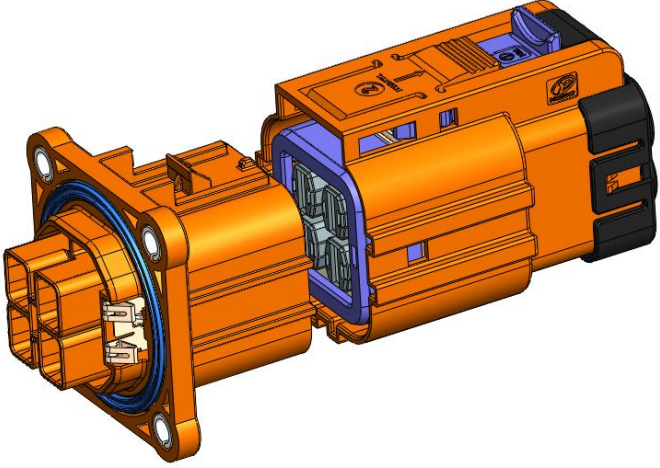


Technical Data Sheet

YGEV2-S4PA Plug/112010106035 (Part No.)

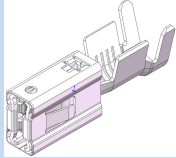
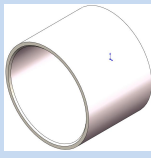
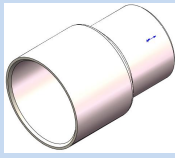
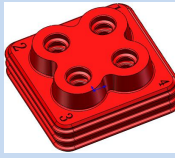
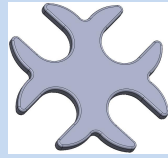

YGEV2-P4RA Receptacle/112020106828 (Part No.)

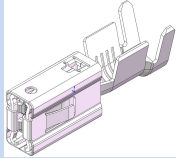
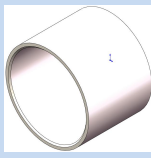
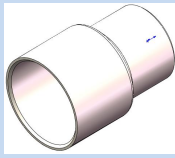



• Product Overview

 <p>Applications Suitable for electrical connection of DCDC, PTC, compressor, high voltage box, etc. in electric vehicles.</p>	<p>Advantages</p> <ul style="list-style-type: none">✓ It can realize 360 degree full shielding;✓ With time-delayed high-voltage interlocking function;✓ The connection form of plug and receptacle is straight locking;✓ The plug&receptacle adopts terminal crimping.
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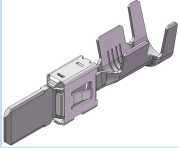
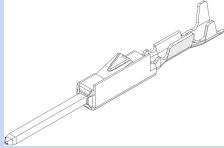
• Ordering Information

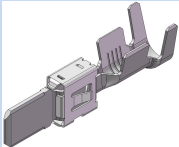
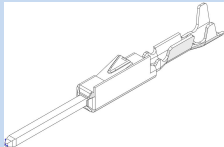
Ordering Information	
Product Name	YGEV2-S4PA Plug
Part No.	112010106035
Product Name	YGEV2-P4RA Receptacle
Part No.	112020106828

Ordering Information(Separately purchased) (Plug end) (Adapts to 2.5mm2 GB shielded cable)						
Product Name	2.8*0.8 Power socket	YG1174A1 Inner sleeve	YG1467 Shielding - Outside-4	YGEV2 Sealing body-4-2.5	YGEV2 Blocking Plate-TPA-4-2.5	YGEV2 Tailcap-4-2.5
Part No.	110010101825	114022500399	114022500495	114050501761	114019801813	114069805432
Quantity	4	4	4	1	1	1
Wiring specifications	2.5mm2 (GB)	Φ5.5~Φ6.1	Φ5.5~Φ6.1	Φ5.5~Φ6.1	Φ5.5~Φ6.1	Φ5.5~Φ6.1
Diagram (reference)						

Ordering Information(Separately purchased) (Plug end) (Adapts to 4mm2 LV216 shielded cable)						
Product Name	2.8*0.8 Power socket	YG1467 Shielding- Inside-4	YG1467 Shielding - Outside-4	YG1174D Plug Sealing body	YG1174B Power terminal Blocking Plate-4mm2(216)	Φ6 Tailcap-4-4
Part No.	501021401790	114022500492	114022500495	114050501309	115980034302	114069805682
Quantity	4	4	4	1	1	1
Wiring specifications	4mm2 (LV216)	Φ5.3~Φ5.8	Φ5.3~Φ5.8	Φ5.3~Φ5.8	Φ5.3~Φ5.8	Φ5.3~Φ5.8
Diagram (reference)						

Ordering Information(Separately purchased) (Plug end) (Adapts to 6mm2 LV216 shielded cable)						
Product Name	2.8*0.8 Power socket	YG1467 Shielding- Inside-6	YG1467 Shielding - Outside-6	YG1174B Plug Sealing body	YG1174B Power terminal Blocking Plate-6mm2(216)	Φ6.7 Tailcap-4-6
Part No.	501021401790	114022500494	114022500496	114050501290	115980034301	114069805683
Quantity	4	4	4	1	1	1
Wiring specifications	6mm2 (LV216)	Φ6.0~Φ6.5	Φ6.0~Φ6.5	Φ6.0~Φ6.5	Φ6.0~Φ6.5	Φ6.0~Φ6.5
Diagram (reference)						

Ordering Information(Separate purchase) (Receptacle end adapted to 2.5mm2)		
Product Name	Power pin	Signal pin
Part No.	110010400760	110010400910
Quantity	4	2
Wiring specifications	2.5mm2/ unshielded cable (GB)	0.35mm2
Diagram (reference)		

Ordering Information(Separately purchased) (Receptacle end adapted to 4/6mm2)		
Product Name	Power pin	Signal pin
Part No.	501021401626	110010400910
Quantity	4	2
Wiring specifications	4mm2/6mm2 unshielded cable (LV216)	0.35mm2
Diagram (reference)		

• Technical Data

Basic Information	
PIN Pitch	Power: 10*10
Adaptive Pin Hole	Plug- Power socket; Receptacle- Power pin、 Signal pin
Housing	/
Outlet direction	180°
Number of outlets	4

Termination method (optional)	
Termination	/
Wiring specification	/
Adaptable cable	2.5mm2 (GB Shielded), 4mm2/6mm2 (LV216 Shielded) Plug 2.5mm2 (GB Unshielded) 4mm2/6mm2 (LV216 Unshielded) Receptacle

Electrical Performance	
Rated Voltage	1000V(Power) 24V(Signal)
Rated current	20A(2.5mm ²); 30A(4mm ²); 40A(6mm ²)
Insulation resistance	≥100MΩ (Power) , ≥100MΩ (Signal) (Normal)
Withstanding Voltage	3000 V (Power) , 1000 V (Signal) (50Hz AC Normal)
Contact resistance	≤1.17mΩ (2.5mm ² Power Contact) 、 ≤0.72mΩ (4mm ² Power Contact) 、 ≤0.68mΩ (6mm ² Power Contact) 、 ≤10mΩ (0.35mm ² Signal Contact)
HVIL	Yes
Electrical continuity between shell/shield contact resistance	Between cable shield and Plug shield: ≤3mΩ Between Plug and Receptacle: ≤4mΩ Between Receptacle and mounting panel: ≤2mΩ

Mechanical Performance	
Total pull-out force ≤	75N
Insertion force ≤	75N
Locking force	≥110N
Mechanical life	≥50 times
Vibration	V2 (USCAR 37)
Shock	V2 (USCAR 37)

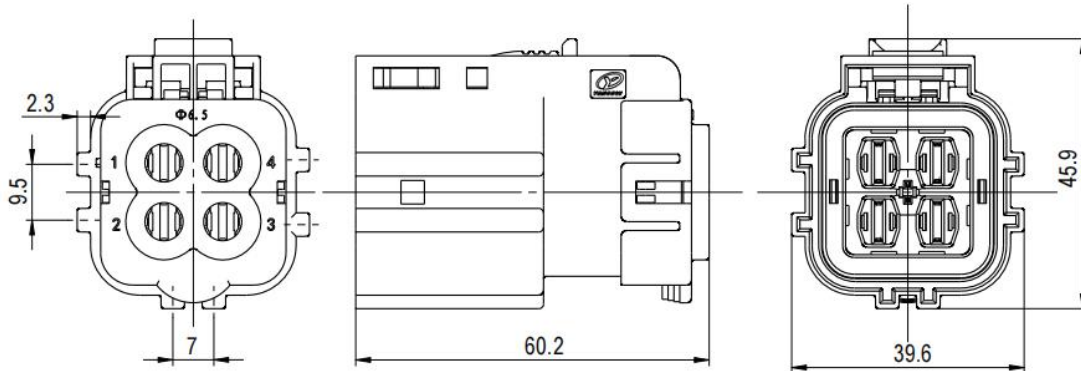
Environmental Performance	
Ambient Temperature	-40°C~+125°C
Relative Humidity	95% (40°C)
Salt spray	96h
Protection grade	IP67&IP6K9K,IPXXD
Pollution level	2
Altitude	Below2000m

Material/Coating/Appearance	
Shells	PA66-GF25 (Orange)
Insulators	Plug: PA66-GF25 (black), Receptacle: PA66-GF25 (orange)
Pinhole Parts/Terminals	Power: Copper Alloy/Silver Plated, Signal: Copper Alloy/Silver Plated

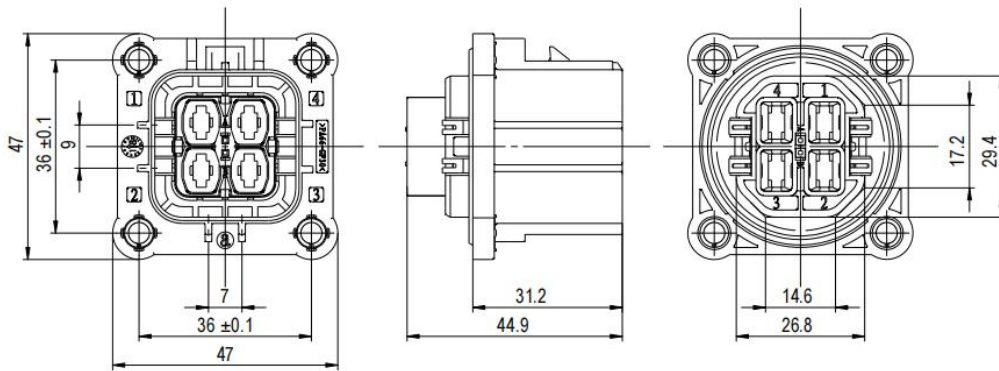
Standards & Certifications	
Flame retardant grade	UL94 V-0(Plastic), HB(Rubber)
Environmental Requirements	ROHS 2.0
Standard	USCAR 37

• Product Size

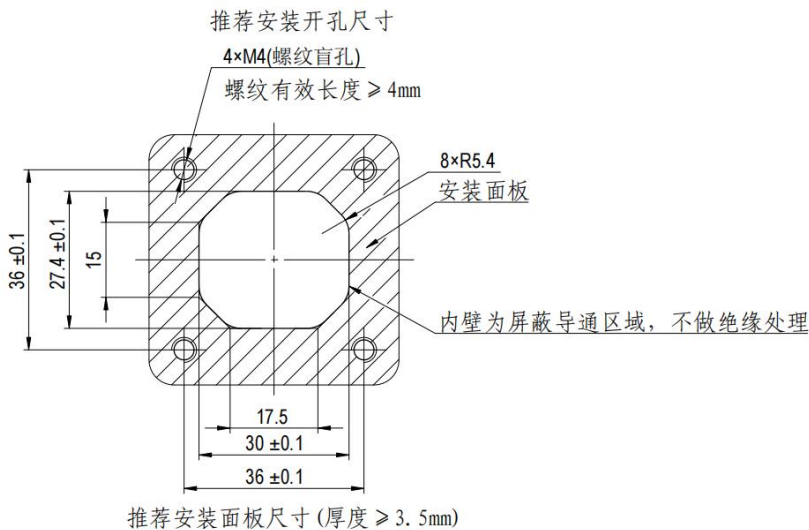
Plug: Tolerance: ±0.5



Receptacle: Tolerance: ±0.5



Recommended mounting openings: (lock on top when viewed from the insertion side)



• Installation Instructions

Specialized tools

Removal Tools

- Power Pin Removal Aid (532031201008)
- Power Socket Removal Aid (532031201010)
- Signal Pin Removal Aid (532031201009)

Needle Feeder Tool	/
Crimping Tools	/
Other Tools	/

• Packaging/transportation/storage (optional)

Packaging and storage instructions	
Packaging	Foamed plastic bags are wrapped and packed into cartons, the gaps are filled with foam board.
Storage Requirements	1. 1. Keep the warehouse neat, clean and ventilated, and control it under the conditions of relative humidity $\leq 75\%$ and temperature at $-5\sim 40^{\circ}\text{C}$; 2. 2. Contact (gold-plated, silver-plated) parts and components must be stored separately, keep neat, clean and ventilated. The storage environment should be controlled under the condition of humidity $\leq 60\%$, temperature at $5\sim 30^{\circ}\text{C}$. Reference shelf life 6 months.
Transportation Requirements	Bus transportation