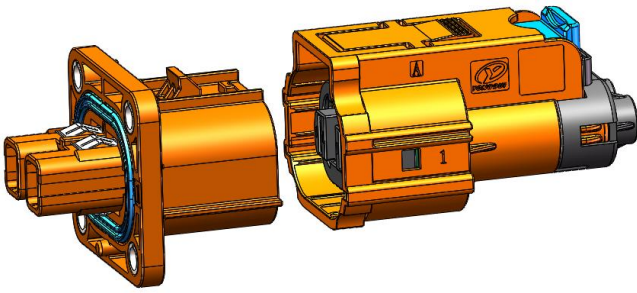



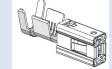
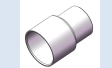



Technical Data Sheet---YGEV2-2pin Series Electrical Connectors









• Product Overview




 <p>Applications Suitable for electric vehicle air conditioning compressor, PTC, charger, DCDC, high voltage box and other electrical connections.</p>	<p>Advantages</p> <ul style="list-style-type: none"> ✓ Full 360 degree shielding can be realized; ✓ Can realize secondary interlocking and unlocking; ✓ With delayed high voltage interlocking function; ✓ Different combinations of anti-dumping key positions at both ends are adopted to realize the function of anti-wrong plugging; ✓ The plug and receptacle are connected in the form of straight plug locking; ✓ Plugs and receptacles are crimped with terminals.
--	---














• Ordering Information

Ordering Information						
Keys	A	B	A	B	A	B
Product Name	YGEV2-S2PA-Plug(2.5mm ²)	YGEV2-S2PB-Plug(2.5mm ²)	YGEV2-S2PA-Plug(4mm ²)	YGEV2-S2PB-Plug(4mm ²)	YGEV2-S2PA-Plug(6mm ²)	YGEV2-S2PB-Plug(6mm ²)
Product Number	TBD	TBD	TBD	TBD	TBD	TBD
Pair of plug end name	YGEV2-P2RA-Receptacle (2.5mm ²)	YGEV2-P2RB-Receptacle(2.5mm ²)	YGEV2-P2RA-Receptacle (4-6mm ²)	YGEV2-P2RB-Receptacle(4-6mm ²)	YGEV2-P2RA-Receptacle (4-6mm ²)	YGEV2-P2RB-Receptacle (4-6mm ²)
Pair of plug end number	TBD	TBD	TBD	TBD	TBD	TBD

Ordering Information		Breakdown of parts, which can be purchased separately				
		Name	Part No.	Quantity	Wiring specifications	Diagram (reference)
YGEV2-S2PA-Plug(2.5mm ²)	TBD	YGEV2-S2PA-Plug assembly	112010106228		/	
		5.8×0.8 socket (2.5mm ²)	110010101825			
		YG1467 Shielding - Outside-4	114022500495			
		YGEV2 Shielding- Inside-2.5	114022500523		2.5mm ² (LV216) Φ4.7 (0, -0.5) mm	
		YGEV2 Blocking Plate-1-Φ5	114019801833			
		YGEV2-1 Sealing body-Φ3	114050501804			

		Φ5.1 Tailcap (black) - 2	114069805485			
YGEV2-S2PB-Plug(2.5mm2)	TBD	YGEV2-S2PB-Plug assembly	112010105914		/	
		5.8×0.8 socket (2.5mm ²)	110010101825		2.5mm ² (LV216) Φ4.7 (0, -0.5) mm	
		YG1467Shielding - Outside-4	114022500495			
		YGEV2Shielding-Inside-2.5	114022500523			
		YGEV2 Blocking Plate-1-Φ5	114019801833			
		YGEV2-1 Sealing body-Φ3	114050501804			
		Φ5.1 Tailcap (black)-2	114069805485			

Ordering Information		Breakdown of parts, which can be purchased separately				
		Name	Part No.	Quantity	Wiring specifications	Diagram (reference)
YGEV2-S2PA-Plug(4mm2)	TBD	YGEV2-S2PA-Plug assembly	112010106228		/	
		5.8×0.8 socket (4~6mm ²)	501021401790		4mm ² (LV216) Φ5.8 (0, -0.5) mm	
		YG1467Shielding - Outside-4	114022500495			
		YG1467Shielding-Inside-4	114022500492			
		YGEV2 Blocking Plate-1-Φ6.1	114019801830			
		YGEV2-1 Sealing body-Φ4.3	114050501799			
		Φ6 Tailcap (black)(黑)-2	114069805482			
YGEV2-S2PB-Plug(4mm2)	TBD	YGEV2-S2PB-Plug assembly	112010105914			/
		5.8×0.8 socket (4~6mm ²)	501021401790		4mm ² (LV216) Φ5.8 (0, -0.5) mm	
		YG1467Shielding - Outside-4	114022500495			
		YG1467Shielding-Inside-4	114022500492			
		YGEV2 Blocking Plate-1-Φ6.1	114019801830			
		YGEV2-1 Sealing body-Φ4.3	114050501799			
		Φ6 Tailcap (black)-2	114069805482			

Ordering Information		Breakdown of parts, which can be purchased separately				
		Name	Part No.	Quantity	Wiring specifications	Diagram (reference)
YGEV2-S2PA-Plug(6mm ²)	TBD	YGEV2-S2PA-Plug assembly	112010106228		/	
		5.8×0.8 socket (4~6mm ²)	501021401790		6mm ² (LV216) Φ6.5 (0, -0.5) mm	
		YG1467Shielding - Outside-6	114022500496			
		YG1467Shielding-Inside-6	114022500494			
		YGEV2 Blocking Plate-1-Φ6.8	114019801815			
		YGEV2-1 Sealing body-Φ5.2	114050501765			
		Φ6.7 Tailcap (black)-2	114069805324			
YGEV2-S2PB-Plug(6mm ²)	TBD	YGEV2-S2PB-Plug assembly	112010105914			/
		5.8×0.8 socket (4~6mm ²)	501021401790		6mm ² (LV216) Φ6.5 (0, -0.5) mm	
		YG1467Shielding - Outside-6	114022500496			
		YG1467Shielding-Inside-6	114022500494			
		YGEV2 Blocking Plate-1-Φ6.8	114019801815			
		YGEV2-1 Sealing body-Φ5.2	114050501765			
		Φ6.7 Tailcap (black)-2	114069805324			

Ordering Information		Breakdown of parts, which can be purchased separately				
		Name	Part No.	Quantity	Wiring specifications	Diagram (reference)
YGEV2-P2RA- Receptacle(2.5mm ²)	TBD	YGEV2-P2RA-Receptacle assembly	112020107025		/	
		5.8×0.8 Pin (2.5mm ²)	110010400760		Φ3.5±0.2mm (2.5mm ²)	
		0.63×0.63 Pin	110010400910		Φ1.3±0.2mm (0.35mm ²)	
YGEV2-P2RB- Receptacle(2.5mm ²)	TBD	YGEV2-P2RB-Receptacle assembly	112020106703		/	
		5.8×0.8 Pin (2.5mm ²)	110010400760		Φ3.5±0.2mm (2.5mm ²)	
		0.63×0.63 Pin	110010400910		Φ1.3±0.2mm (0.35mm ²)	
YGEV2-P2RA- Receptacle(4- 6mm ²)	TBD	YGEV2-P2RA-Receptacle assembly	112020107025		/	
		5.8×0.8 Pin (4~6mm ²)	501021401626		Φ4.5±0.2mm (4mm ²) Φ4.9±0.2mm (6mm ²)	
		0.63×0.63 Pin	110010400910		Φ1.3±0.2mm (0.35mm ²)	
YGEV2-P2RB- Receptacle(4- 6mm ²)	TBD	YGEV2-P2RB-Receptacle assembly	112020106703		/	
		5.8×0.8 Pin (4~6mm ²)	501021401626		Φ4.5±0.2mm (4mm ²) Φ4.9±0.2mm (6mm ²)	
		0.63×0.63 Pin	110010400910		Φ1.3±0.2mm (0.35mm ²)	

• Technical Data

Basic Information	
PIN distance	12.8mm
Number of pins	2pin
Cable Specifications	-Plug: 2.5mm ² (LV216) /Φ4.7 (0, -0.5) mm 4mm ² (LV216) /Φ5.8 (0, -0.5) mm 6mm ² (LV216) /Φ6.5 (0, -0.5) mm -Receptacle: 2.5mm ² (GB) /Φ3.5±0.2mm 4mm ² (GB) /Φ4.5±0.2mm 6mm ² (GB) /Φ4.9±0.2mm 0.35mm ² (GB) /Φ1.3±0.2mm
Outlet direction	180°

Electrical Performance	
Rated Voltage	1000 V (Power) , 24 V (Signal)
Rated Current	20A (2.5mm ²)、32A (4mm ²)、40A (6mm ²)
Withstanding Voltage	3000 V (Power) , 1000 V (Signal) (50Hz AC Normal)
Insulation Resistance	≥100MΩ (Power/Signal) (1000V DC)
HVIL (Y/N)	Y
Shielding (Y/N)	Y

Mechanical Performance	
Mechanical life	≥50 times
Vibration Rating	V2 (USCAR 37)

Environmental Performance	
Working Temperature	-40°C~+125°C
Protection Class	IP67&IP6K9K
Relative Humidity	95% (40°C)
Salt Spray Grade	96h
Altitude	≤4000m

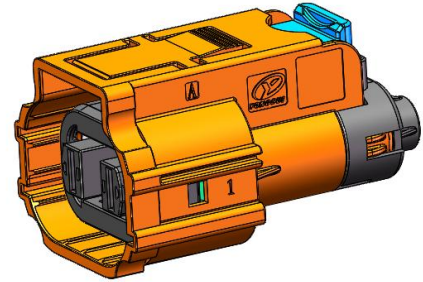
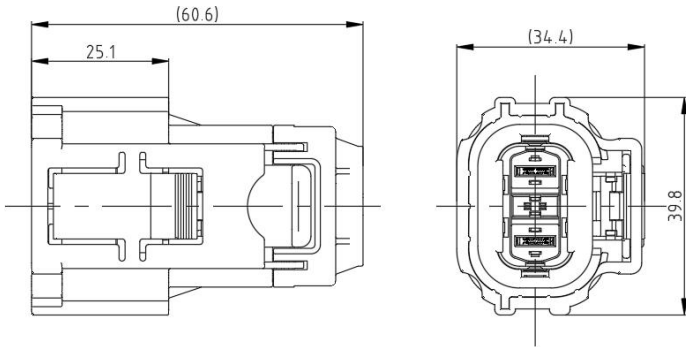
Material/Coating/Appearance	
See parts drawings	

Standards & Certifications	
Flame retardant grade	UL94 V-0(Plastic), HB(Rubber)
Environmental Requirements	RoHS 2.0
Standard	USCAR 37 (Aug 2008)

For additional technical data see DV/PV test report

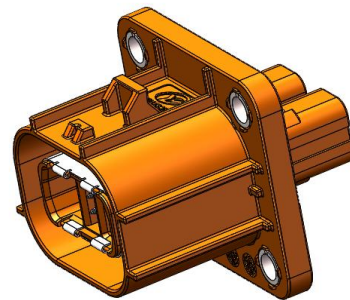
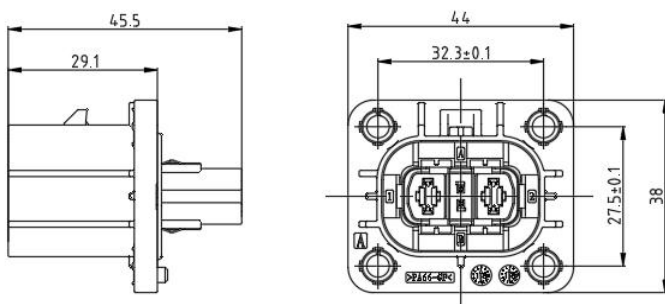
• Product Size

YGEV2-S2P Series-Plug Assembly Outline (Tolerance:±0.5)



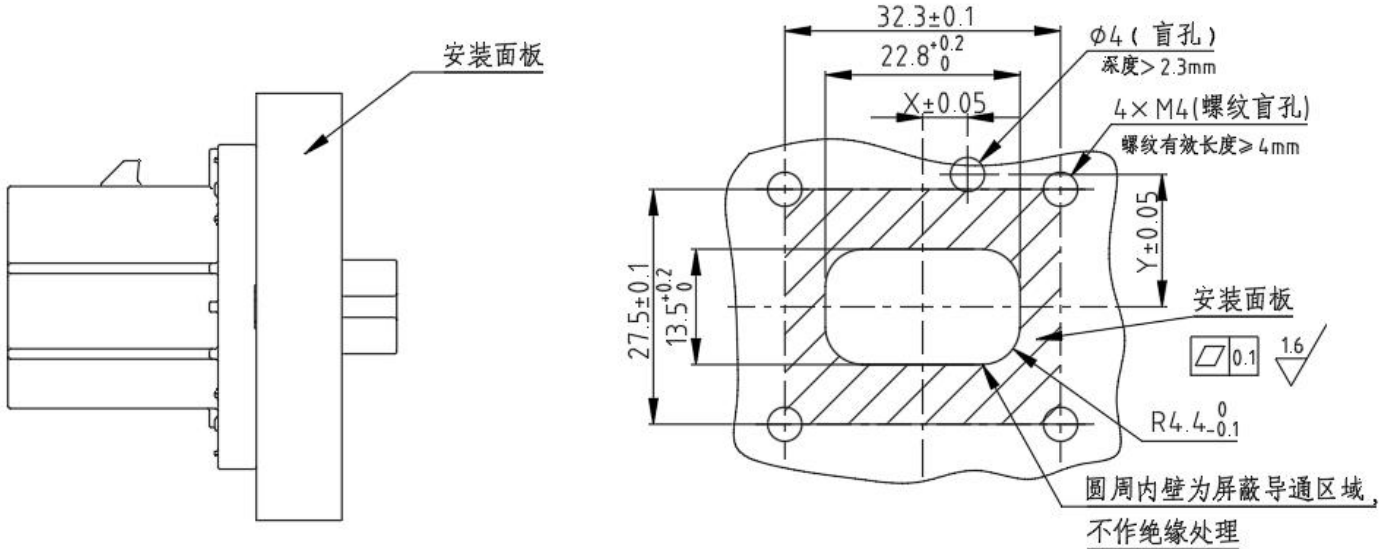
型号	YGEV2-S2PA插头	YGEV2-S2PB插头
键位	A	B
对插键位图示		

YGEV2-P2R Series-Receptacle Assembly Outline (Tolerance:±0.5)



型号	YGEV2-P2RA插座	YGEV2-P2RB插座
键位	A	B
对插键位图示		
安装开孔间距位置尺寸		

YGEV2-P2R Series-Receptacle Mounting Opening Dimensions (Unnoted Tolerance: ±0.1)



视图方向

推荐安装面板尺寸(厚度 $\geq 4\text{mm}$)

螺钉拧紧力矩: $3\pm 0.5\text{N.m}$

型号	X	Y	备注
YGEV2-P2RA	0	-15.55	防错凸台孔位尺寸按图示
YGEV2-P2RB	5.50	-15.55	

• 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	/

• Stored

Packaging storage/transit instructions	
Storage Requirements	Contact parts (gold-plated, silver-plated) parts must be stored separately and kept neat, clean and ventilated. The storage environment should be controlled at a humidity of $\leq 60\%$ and a temperature of $5\sim 30^\circ\text{C}$. Reference storage period 6 months
Transit Requirements	Terminals should avoid collision, contact with corrosive gases and liquids, and direct hand contact in the process of packaging, transportation, transfer and production, assembly, etc. to ensure that the contact surface of the terminals is well.