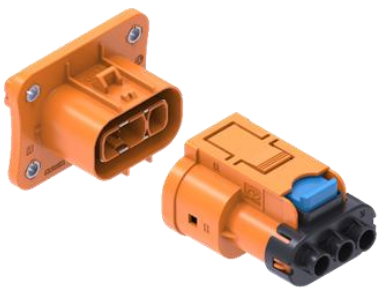


Technical Data Sheet---YGEV2-3pin Series Electrical Connectors



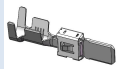
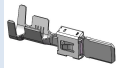
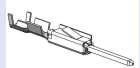
• Product Overview

 <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.
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• Ordering Information

Ordering Information		
Keys	A	B
Product Name	YGEV2-S3PA Plug	YGEV2-S3PB Plug
Product Number	112010105975	112010105976
Pair of plug end name	YGEV2-P3RA Receptacle	YGEV2-P3RB Receptacle
Pair of plug end number	112020106779	112020106780

Ordering information (Plug assembly details, can be purchased separately)			
Name	Part No.	Wiring specifications	Diagram (reference)
YGEV2-S3PA Plug assembly	112010105975	2.5mm ² /4mm ² /6mm ²	
YGEV2-S3PB Plug assembly	112010105976		
5.8×0.8 Socket (2.5mm ²)	110010101825	2.5mm ² (LV216) Φ4.7 (0, -0.5) mm	
YG1467 Shielding - Outside-4	114022500495		
YGEV2 Shielding-Inside-2.5	114022500523		
Φ4.9 Tailcap assembly-2.5	113990001598		
5.8×0.8 Socket (4-6mm ²)	501021401790	4mm ² (LV216) Φ5.8 (0, -0.5) mm	
YG1467 Shielding - Outside-4	114022500495		
YG1467 Shielding-Inside-4	114022500492		
Φ6 Tailcap assembly-4	113990001597		
5.8×0.8 Socket (4-6mm ²)	501021401790	6mm ² (LV216) Φ6.5 (0, -0.5) mm	
YG1467 Shielding - Outside-6	114022500496		
YG1467 Shielding-Inside-6	114022500494		
Φ6.7 Tailcap assembly-6	113990001596		

Ordering Information (Receptacle assembly details, can be purchased separately)			
Name	Part No.	Wiring specifications	Diagram (reference)
YGEV2-P3RA Receptacle assembly	112020106779	2.5mm ² /4mm ² /6mm ²	
YGEV2-P3RB Receptacle assembly	112020106780		
5.8×0.8 Pin (2.5mm ²)	110010400760	Φ3.5±0.2mm (2.5mm ²)	
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	10.7mm&9.6mm
Number of pins	3pin
Adaptive pinhole	Plugs - power sockets; Receptacles - power pins, signal pins
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)
Insulation resistance	≥100MΩ (Power/ Signal) (1000V DV)
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	是
Electrical continuity between housings/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)

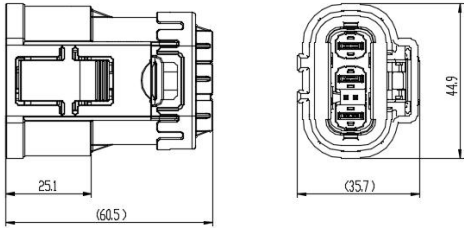
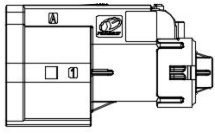
Environmental Performance	
Working Temperature	-40°C~+125°C
Relative Humidity	95% (40°C)
Salt spray	96h
Protection Grade	IP67&IP6K9K
Pollution level	2
Altitude	≤4000m

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

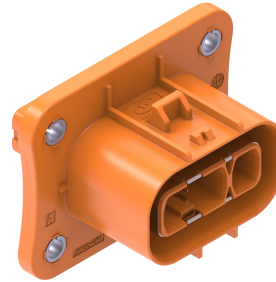
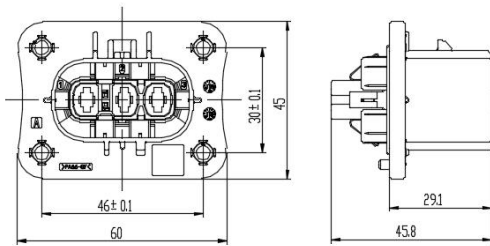
• Product Size

YGEV2-S3P Series-Plug Assembly Outline (Tolerance:±0.5)



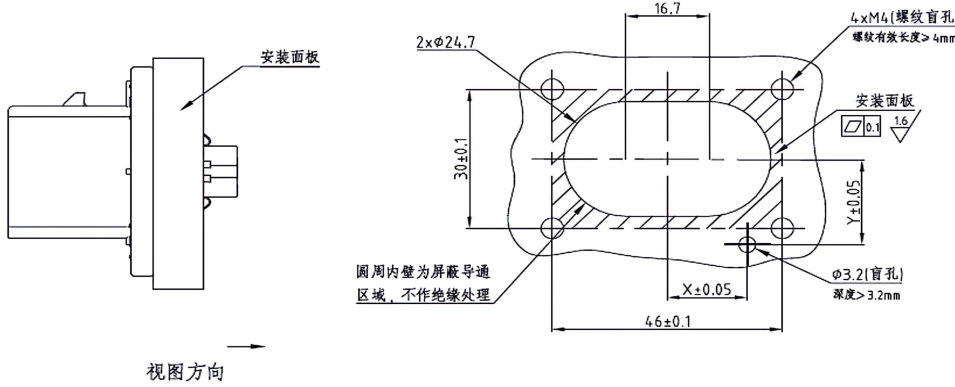
型号	YGEV2-S3PA插头	YGEV2-S3PB插头
键位	A	B
对插键位图示		

YGEV2-P3R Series-Receptacle Assembly Outline (Tolerance:±0.5)



型号	YGEV2-P3RA插座	YGEV2-P3RB插座
键位	A	B
对插键位图示		

YGEV2-P3R Series-Receptacle Mounting Opening Dimensions (Unnoted Tolerance: ± 0.1)



推荐安装面板尺寸(厚度 ≥ 6 mm)
螺钉拧紧力矩: 3 ± 0.5 N.m

型号	X	Y	备注
YGEV2-P3RA	16	-18.50	防错凸台孔位尺寸按图示
YGEV2-P3RB	7.50	-18.50	

• 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 and storage instructions	
Storage requirements	Contact (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