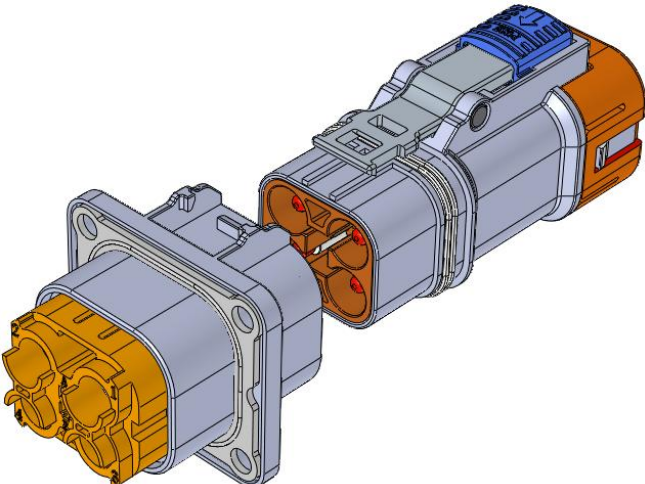


## Technical Specification

YGC1092-EV-P4PA plug / 112010103390

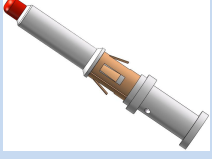
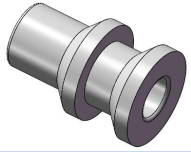

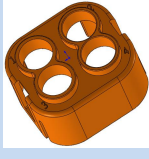
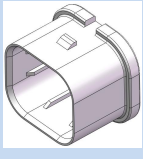
YGC1092-EV-S4RA receptacle/112020103712

### • Product Overview

 <p><b>Application Scenario</b> Suitable for electrical connection of electric vehicle chargers, oil pump controllers, air pump controllers, high voltage boxes, etc.</p>	<p><b>Advantages</b></p> <ul style="list-style-type: none"><li>✓ The product can achieve 360-degree full shielding;</li><li>✓ The product can realize secondary interlocking and unlocking;</li><li>✓ The product has a delayed high voltage interlocking function;</li><li>✓ The connection between the plug and the receptacle is straight-insertion locking;</li><li>✓ Plugs and receptacles use terminal crimping.</li></ul>
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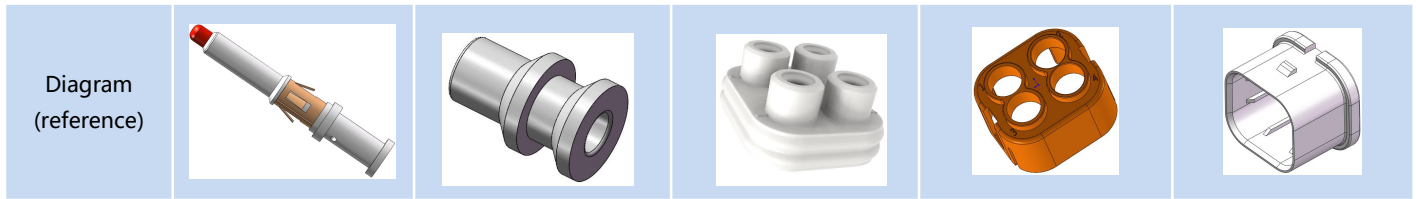
### • Ordering Information

Ordering Information		
Product Name	YGC1092-EV-P4PA plug	
Part No.	112010103390	
Product Name	YGC1092-EV-S4RA receptacle	YGC1092-EV-S4RA/ I receptacle
Part No.	112020103712	112020103724

Ordering information (purchased separately) (plug end) (suitable for 2.5mm <sup>2</sup> shielded cable)					
Product Name	YG1092 pin assembly φ4-2.5mm <sup>2</sup> -Ag	YG1092 rubber plug 2.5mm <sup>2</sup>	YG1092 Sealing Body-2.5mm <sup>2</sup> Shielding	YG1092 plug tail cover	YG1092 plug protection cover (optional)
Part No.	113020100946	114050400599	114050501128	114060101882	114069804117
Qty/set	4	4	1	1	1
Wiring specifications	5.8±0.3	5.8±0.3	5.8±0.3	5.8±0.3	5.8±0.3
Diagram (reference)					

Ordering information (purchased separately) (plug end) (suitable for 4mm <sup>2</sup> shielded cable)					
Product Name	YG1092 pin assembly φ4-4mm <sup>2</sup> -Ag	YG1092 rubber plug 2.5mm <sup>2</sup>	YG1092 Sealing Body-4mm <sup>2</sup> Shielding	YG1092 Plug tail cover A	YG1092 plug protection cover (optional)
Part No.	113020100947	114050400599	114050501127	114069804021	114069804117
Qty/set	4	4	1	1	1
Wiring specifications	6.8±0.3	6.8±0.3	6.8±0.3	6.8±0.3	6.8±0.3
Diagram (reference)					

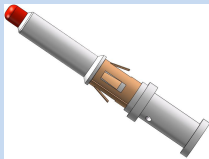

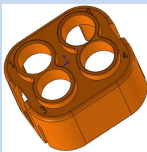
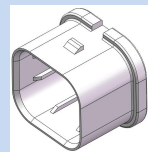
Ordering information (purchased separately) (plug end) (suitable for 6mm <sup>2</sup> shielded cable)					
Product Name	YG1092 pin assembly φ4-6mm <sup>2</sup> -Ag	YG1092 rubber plug 6mm <sup>2</sup>	YG1092 Sealing Body-6mm <sup>2</sup> Shielding	YG1092 plug tail cover	YG1092 plug protection cover (optional)
Part No.	113020100948	114050400598	114050501133	114060101882	114069804117
Qty/set	4	4	1	1	1
Wiring specifications	8±0.3	8±0.3	8±0.3	8±0.3	8±0.3



Ordering information (purchased separately) (plug end) (suitable for 2.5mm<sup>2</sup> unshielded cable)

Product Name	YG1092 pin assembly $\phi$ 4-2.5mm <sup>2</sup> -Ag	YG1092 Sealing wire body-2.5mm <sup>2</sup> non-shielded	YG1092 plug tail cover	YG1092 plug protection cover (optional)
Part No.	113020100946	114050501130	114060101882	114069804117
Qty/set	4	1	1	1
Wiring specifications	3.5±0.2	3.5±0.2	3.5±0.2	3.5±0.2
Diagram (reference)				

Ordering information (purchased separately) (plug end) (suitable for 4mm<sup>2</sup> unshielded cable)

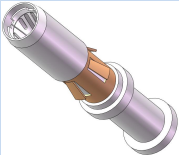
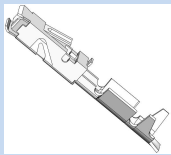
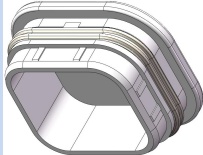
Product Name	YG1092 pin assembly $\phi$ 4-4mm <sup>2</sup> -Ag	YG1092 Sealing wire body-6mm <sup>2</sup> non-shielded	YG1092 plug tail cover	YG1092 plug protection cover (optional)
Part No.	113020100947	114050501129	114060101882	114069804117
Qty/set	4	1	1	1
Wiring specifications	4.7±0.2	4.7±0.2	4.7±0.2	4.7±0.2
Diagram (reference)				

Ordering information (purchased separately) (plug end) (suitable for 6mm<sup>2</sup> unshielded cable)

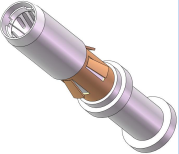
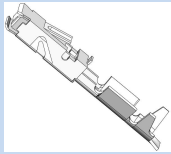
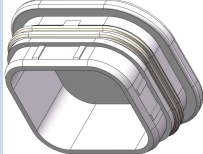
Product Name	YG1092 pin assembly $\phi$ 4-6mm <sup>2</sup> -Ag	YG1092 Sealing wire body-6mm <sup>2</sup> non-shielded	YG1092 plug tail cover	YG1092 plug protection cover (optional)
Part No.	113020100948	114050501129	114060101882	114069804117
Qty/set	4	1	1	1

Wiring specifications	4.9±0.2	4.9±0.2	4.9±0.2	4.9±0.2
Diagram (reference)				

Ordering information (purchased separately) (receptacle end) (suitable for 2.5mm<sup>2</sup> unshielded cable)

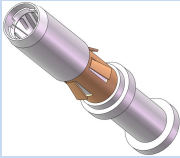
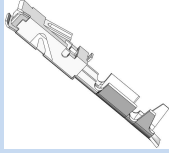
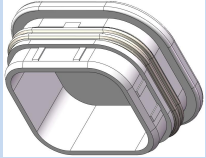
Product Name	YG1092 socket assembly φ4-2.5mm <sup>2</sup> -Ag	YG939 signal socket	YG1092 receptacle protective cover assembly (optional)
Part No.	113020601357	501021600128	113069800413
Qty/set	4	2	1
Wiring specifications	3.5±0.2	3.5±0.2	3.5±0.2
Diagram (reference)			

Ordering information (purchased separately) (receptacle end) (suitable for 4mm<sup>2</sup> unshielded cable)

Product Name	YG1092 receptacle Assembly φ4-4mm <sup>2</sup> -Ag	YG939 signal socket	YG1092 receptacle protective cover assembly (optional)
Part No.	113020601356	501021600128	113069800413
Qty/set	4	2	1
Wiring specifications	4.7±0.2	4.7±0.2	4.7±0.2
Diagram (reference)			

Ordering information (purchased separately) (receptacle end) (suitable for 6mm<sup>2</sup> unshielded cable)

Product Name	YG1092 receptacle Assembly φ4-6mm <sup>2</sup> -Ag	YG939 signal socket	YG1092 receptacle protective cover assembly (optional)
Part No.	113020601355	501021600128	113069800413
Qty/set	4	2	1

Wiring specifications	4.9±0.2	4.9±0.2	4.9±0.2
Diagram (reference)			

## • Technical Data

Basic Information	
PIN distance	/
Adaptation pinhole	Plug-power pin; receptacle-power socket, signal socket
Adapter housing	/
Outlet direction	180°/90°
Number of outlets	4
Termination method (optional)	
Termination method	Crimp
Wiring specifications	/
Adapter cable	2.5, 4, 6mm <sup>2</sup> (shielded/unshielded) plug 2.5, 4, 6mm <sup>2</sup> (unshielded) receptacle
Electrical properties	
Rated voltage	1000V(power) 24V(signal)
Rated current	20A (2.5mm <sup>2</sup> ); 30A (4mm <sup>2</sup> ); 40A (4mm <sup>2</sup> )
Insulation resistance	≥5000MΩ (power), ≥1000MΩ (signal) (50Hz AC normal)
Withstand voltage	3500 V (power), 1000 V (signal) (50Hz AC normal)
Contact resistance	0.64mm connection terminal contact resistance <40mΩ ; power terminal contact resistance <5mΩ
HVI	yes
Electrical continuity between shells/shield contact resistance	Between cable shield and plug shield: ≤3mΩ Between plug and receptacle: ≤4mΩ Between the receptacle and the mounting panel: ≤3mΩ
Mechanical properties	
Total pull-out force ≤	75N
Insertion force ≤	75N
Locking force	Locking structure ≥80N (terminal specification <0.28mm) Locking structure ≥100N (terminal specification >0.28mm)
Mechanical life	>50 times
vibration	V2
Shock	V2

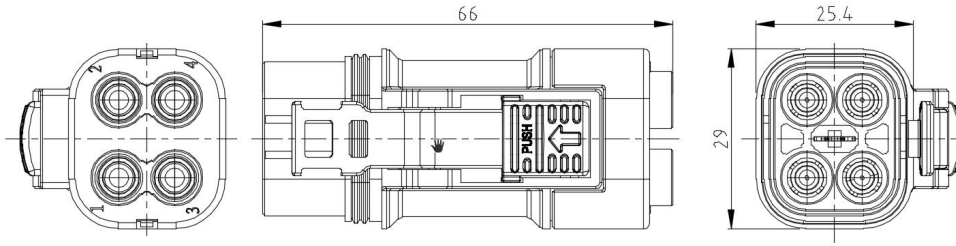
Environmental resistance	
Ambient temperature	-40°C ~ +125°C
Relative humidity	95% (at 40°C)
Salt spray	480H
Protection level	IP67&IP6K9K(plug and play),IPXXD(plug and play)
Pollution degree	2
Altitude requirements	Below 2000m

Material/Coating/Appearance	
case	Zinc Nickel Plating
Insulator	PA66-GF30 (Orange)
Pinhole parts/terminals	Copper alloy silver plated

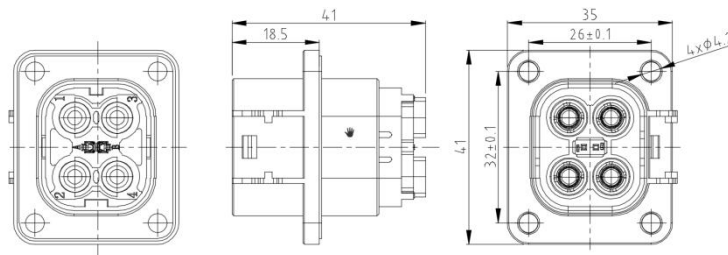
Standards and Certification	
Flame retardant grade	UL94 V-0 (plastic), HB (rubber)
Environmental requirements	ROHS 2.0
Implementation Standards	QC/T 1067.1

• Dimensions

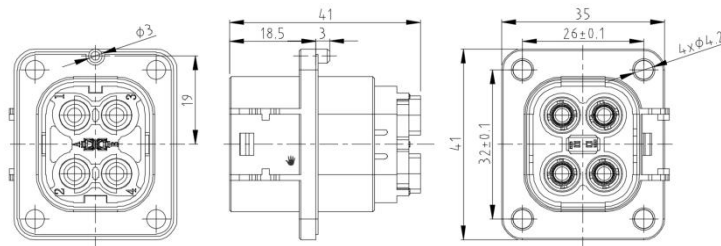
**YGC1092-EV-P4PA plug appearance Tolerance not noted  $\pm 0.5$**



**YGC1092-EV-S4RA receptacle Tolerance not noted  $\pm 0.5$**

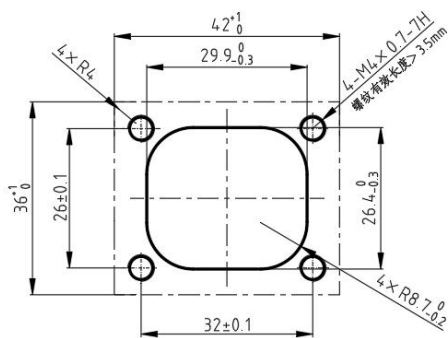


**YGC1092-EV-S4RA/ I receptacle Tolerance not noted  $\pm 0.5$**

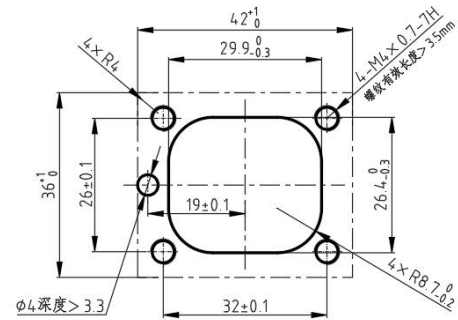
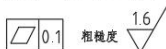


**Recommended installation opening: (Tolerance not specified:  $\pm 0.1$ )**

YGC1092-EV-S4RA receptacle installation hole size: YGC1092-EV-S4RA / I receptacle installation hole size:



注：42<sup>+1</sup><sub>0</sub>×36<sup>+1</sup><sub>0</sub>区域不作绝缘处理



注：42<sup>+1</sup><sub>0</sub>×36<sup>+1</sup><sub>0</sub>区域不作绝缘处理



## • Installation Introduction

Special tools	
Removal tools	Power socket: YG767 extraction tool Power pin: YG767 pin extraction tool Signal terminal: GZ939-02-03-00 disassembly tool
Needle feeding tool	/
Crimping tools	/
Other Tools	/



## • Packing Introduction

Packaging and storage instructions	
Packaging	Wrap the foam plastic bag and put it into the carton, and fill the gap with foam board
Storage requirements	<ol style="list-style-type: none"><li>1. The warehouse should be kept neat, clean and well ventilated, with relative humidity <math>\leq 75\%</math> and temperature between <math>-5</math> and <math>40^{\circ}\text{C}</math>;</li><li>2. Contact parts (gold-plated, silver-plated) must be stored separately, kept neat, clean and ventilated. The storage environment should be controlled at a humidity of <math>\leq 60\%</math> and a temperature of <math>5\sim 30^{\circ}\text{C}</math>. Reference shelf life: 6 months</li></ol>
Shipping requirements	Automobile transport