

YGEV3 Series Electrical Connector

Technical Specification

Technical Specification A1, YGEV3-2pin Series Electrical Connector

1 PRODUCT INSTRUCTIONS

 Application Scenarios Suitable for high-voltage electrical connections in electric vehicle battery packs, MCUs, high-voltage boxes, etc.	Advantages ✓ Full 360-degree shielding; ✓ Secondary interlock and unlocking functionality; ✓ Delayed high-voltage interlock feature; ✓ Foolproof keying with two different combinations to prevent misinsertion; ✓ The socket incorporates Yonggui's independently developed high-power terminals, which feature multiple contact points and strong current-carrying capacity; ✓ Plug options include straight and right-angle models.
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2 ORDERING INFORMATION

Ordering Information (Assembly)				
Keying	Code A		Code B	
Product Name	YGEV3-S2RA Socket	YGEV3-S2RA6 Socket	YGEV-S2RB Socket	YGEV-S2RB6 Socket
Product Number	111000503497	/	111000503509	/
Mating End Name	YGEV3-P2PHA Plug	YGEV3-P2PWHA Plug	YGEV3-P2PHB Plug	YGEV3-P2PWHB Plug
Mating End Number	111000406673	112010107117	111000406715	112020207118



Note: The last letter of the product name indicates foolproof keying. Plug and socket models with matching last letters are compatible for mating. The ending number represents different copper bar forms or variants, which do not affect mating.

Ordering Information (Assembly)	Ordering Information (Component Details, Available for Separate Purchase)				
	Product Name	Product Number	Quantity	Wiring Specification	Illustration (Reference)
YGEV3-S2RA Socket YGEV3-S2RB Socket	YGEV3-S2RA Socket Assembly YGEV3-S2RB Socket Assembly (Any model)	111000503497 11000503509	1	/	
	YG1266A Signal Pin Housing	114060202333	1	/	
	YG1266A Signal Pin TPA	114060202334	1	/	
	82-0.63×0.63-H25*H35T Pin	110010401011	2	$\Phi(1.2-1.3)\pm0.1$ (0.25-0.35mm ²)	
	YGEV3-S2RA Block	114060400283	1		

Ordering Information (Assembly)	Ordering Information (Component Details, Available for Separate Purchase)				
	Product Name	Product Number	Quantity	Wiring Specification	Illustration (Reference)
YGEV3-S2RA6 Socket YGEV3-S2RB6 Socket Assembly	YGEV3-S2RA6 Socket Assembly YGEV3-S2RB6 Socket Assembly (Any model)		1	/	
	YG1266A Signal Pin Housing	114060202333	1	/	



	YG1266A Signal Pin TPA	114060202334	1	/	
	82-0.63×0.63-H25^H35T Pin	110010401011	2	$\Phi(1.2-1.3)\pm 0.1$ (0.25-0.35mm ²)	
	YGEV3-S2RA Block	114060400283	1		

Ordering Information (Assembly)	Ordering Information (Component Details, Available for Separate Purchase)				
	Product Name	Product Number	Quantity	Wiring Specification	Illustration (Reference)
YGEV3-P2PHA Plug (10mm ²) YGEV3-P2PHB Plug (10mm ²)	YGEV3-P2PHA Plug Assembly YGEV3-P2PHB Plug Assembly (Any model)	111000406673 111000406715	1	/	
	11×1.5NAU001-0258W Pin Terminal	114020101539	2	10mm ² (LV216) $\Phi 8.2\text{mm} \sim \Phi 8.8\text{mm}$	
	YGEV3-P2PHA Shield-Inner-10	114022600546	2		
	YGEV3-P2PHA Shield-Outer-10	114022600597	2		
	$\Phi 12.5 \times 1.5$ Gasket	114069806326	1		



	Clamp Assembly R4.5 (YGEV3)	113990002314	1		
	Φ9 End Cap (Black)	114069806370	1		
YGEV3-P2PHA Plug (16mm ²) YGEV3-P2PHB Plug (16mm ²)	YGEV3-P2PHA Plug Assembly YGEV3-P2PHB Plug Assembly (Any model)	111000406673 111000406715	1	/	
	11×1.5NAU001-025SW Pin Terminal	114020101539	2	16mm ² (LV216) Φ9.6mm~Φ10.2mm	
	YGEV3-P2PHA Shield-Inner-16	114022600545	2		
	YGEV3-P2PHA Shield-Outer-16	114022600596	2		
	Φ12.5×1.5 Washer	114069806326	1		
	Clamp Assembly R5.2 (YGEV3)	113990002313	1		
	Φ10.4 End Cap (Black)	114069806369	1		

Ordering Information (Assembly)	Ordering Information (Component Details, Available for Separate Purchase)				
	Product Name	Product Number	Quantit y	Wiring Specification	Illustration (Reference)



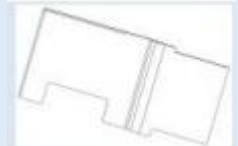
YGEV3-P2PHA Plug (25mm ²) YGEV3-P2PHB Plug (25mm ²)	YGEV3-P2PHA Plug Assembly	11100040667 3	1	/	
	YGEV3-P2PHB Plug Assembly (Any model)	11100040671 5			
	11×1.5NAU001-025SW Pin Terminal	11402010153 9	2	25mm ² (LV216) Φ11.6mm~Φ12.2mm	
	YGEV3-P2PHA Shield-Inner-25	11402260054 3	2		
	YGEV3-P2PHA Shield-Outer-25	11402260054 4	2		
	Φ12.5×1.5 Washer	11406980632 6	1		
	Clamp Assembly R6.2 (YGEV3)	11399000231 5	1		
	Φ12.4 End Cap (Black)	11406980632 1	1		
	YGEV3-P2PWHA Plug Assembly	11201010711 7	1	/	
	YGEV3-P2PWHA Plug Assembly (Any model)	11201010711 8			
YGEV3-P2PWH A Plug (10mm ²) YGEV3-P2PWH B Plug (10mm ²)	16.2×1.5NAU001-025S W Pin Terminal	11402010157 8	2	10mm ² (LV216) Φ8.2mm~Φ8.8mm	



	YGEV3-P2PHA Shield-Inner-10	11402260054 6	2		
	YGEV3-P2PHA Shield-Outer-10	11402260059 7	2		
	Φ12.5×1.5 Washer	11406980632 6	1		
	Clamp Assembly R4.5 (YGEV3)	11399000231 4	1		
	Φ9 End Cap (Black)	11406980637 0	1		

Ordering Information (Assembly)	Ordering Information (Component Details, Available for Separate Purchase)				
	Product Name	Product Number	Quantit y	Wiring Specification	Illustration (Reference)
YGEV3-P2PNH A Plug (16mm ²) YGEV3-P2PNH B Plug(16mm ²)	YGEV3-P2PNHA Plug Assembly	11201010711 7	1	/	
	YGEV3-P2PNHB Plug Assembly (Any model)	11201010711 8			
	16.2×1.5NAU001-025S W Pin Terminal	11402010157 8	2	16mm ² (LV216)	
	YGEV3-P2PNH Shield-Inner-16	11402260054 5	2	Φ9.6mm~Φ10.2m m	



	YGEV3-P2PNH Shield-Outer-16	11402260059 6	2		
	Φ12.5×1.5 Washer	11406980632 6	1		
	Clamp Assembly R5.2 (YGEV3)	11399000231 3	1		
	Φ10.4 End Cap (Black)	11406980636 9	1		
YGEV3-P2PNH A Plug (25mm²) YGEV3-P2PNH B Plug(25mm²)	YGEV3-P2PNHA Plug Assembly	11201010711 7	1	/	
	YGEV3-P2PNHB Plug Assembly (Any model)	11201010711 8			
	16.2×1.5NAU001-0258 W Pin Terminal	11402010157 8	2	25mm² (LV216) Φ11.6mm~Φ12.2m m	
	YGEV3-P2PNH Shield-Inner-25	11402260054 3	2		
	YGEV3-P2PNH Shield-Outer-25	11402260054 4	2		
	Φ12.5×1.5 Washer	11406980632 6	1		
	Clamp Assembly R6.2 (YGEV3)	11399000231 6	1		



	Φ12.4 End Cap (Black)	11406980632 1	1		
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3 TECHNICAL DATA

Basic Information	
Pin Pitch:	15.7mm
Number of Pins	2PIN
Cable Specifications	- 10mm ² (Φ8.2-Φ8.8mm)
	- 16mm ² (Φ9.6mm~Φ10.2mm)
	- 25mm ² (Φ11.6mm~Φ12.2mm)
Cable Exit Direction:	90°, 180°
Shielding Function:	Yes

Electrical Performance	
Rated Voltage	1000V DC (Power), 24V (Signal)
Rated Current	60A (10mm ²), 80A (16mm ²), 125A (25mm ²)
Insulation Resistance	≥100MΩ (Power/Signal) (1000V DC)
Withstand Voltage	3000V (Power), 1000V (Signal) (50Hz AC, Normal Condition)
HVIL	Yes

Mechanical Performance	
Mechanical Life	≥50 cycles
Vibration Rating	USCAR V2
Shock Rating	USCAR V2

Environmental Performance	
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Operating Temperature	-40°C to +125°C
Relative Humidity	95% (at 40°C)
Salt Spray	96h
Protection Rating	IP68 & IP6K5K (Plug and Socket Mated)
Pollution Degree	2
Altitude	≤5000m

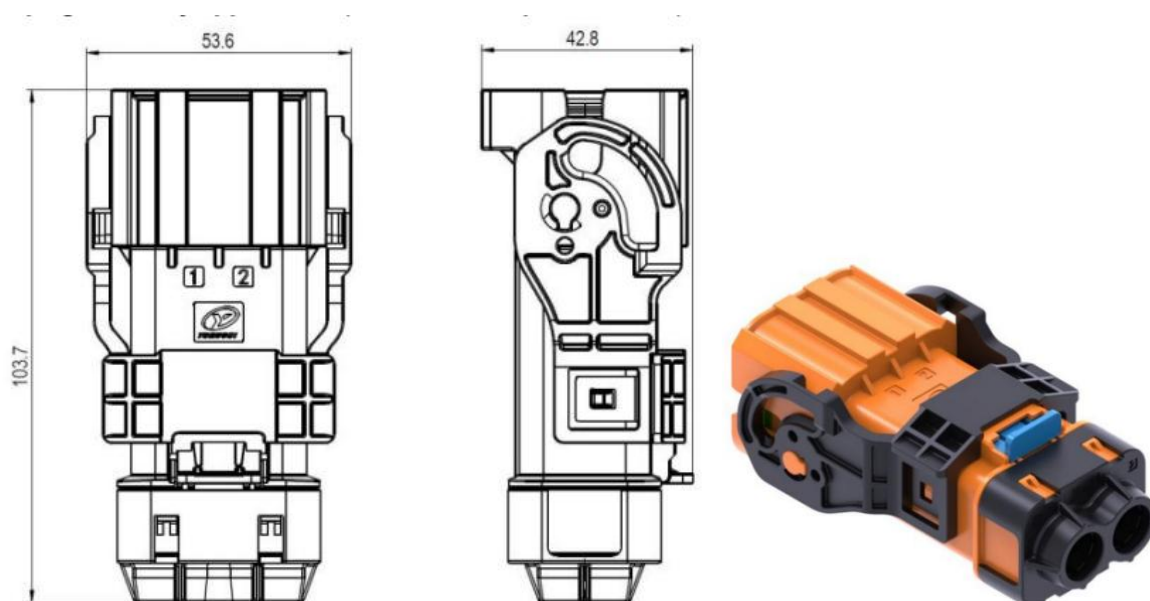
Materials / Coatings / Appearance	
Housing	PA66-GF
Shielding	Copper Alloy

Standards and Certifications	
Flame Resistance Rating	UL94 V-0 (Plastic), HB (Rubber)
Environmental Requirements	RoHS 2.0

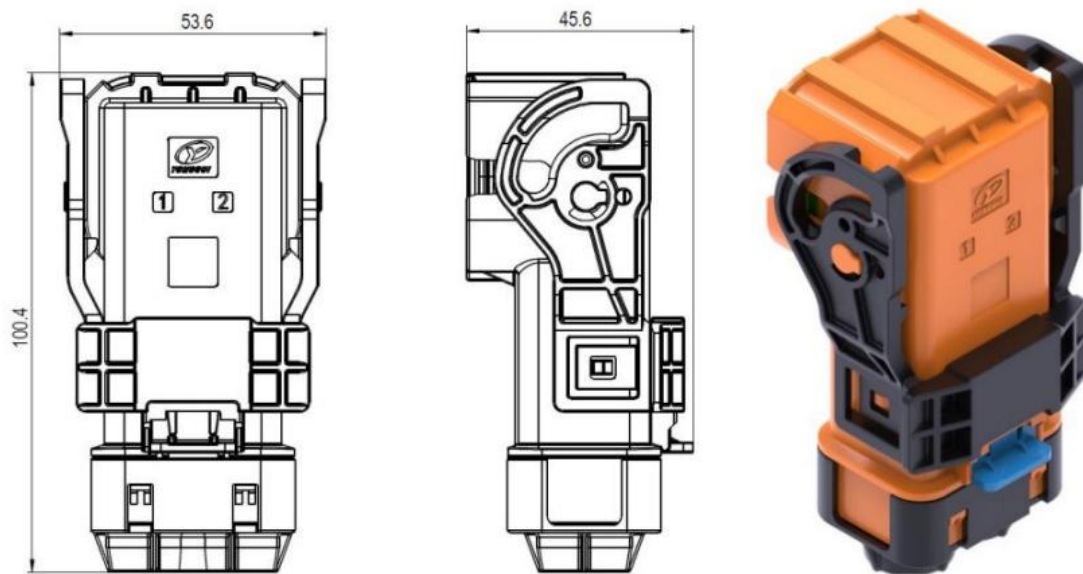
For other technical data, refer to DV/PV test reports.

4 PRODUCT SIZE

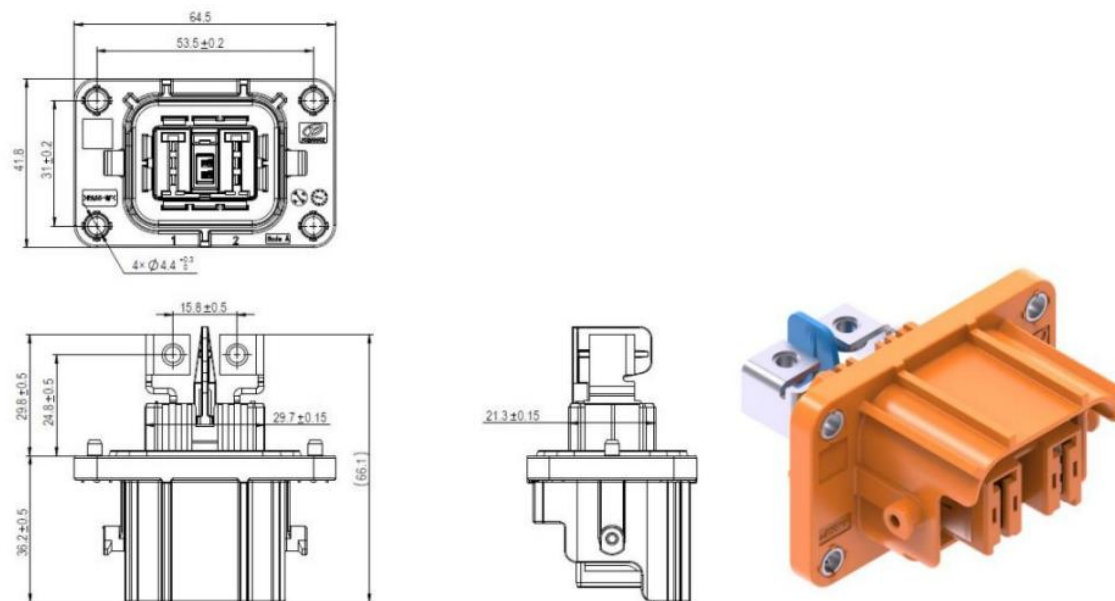
1. YGEV3-P2PH Series Plug Assembly Outline (Unspecified Tolerance: ± 0.5)



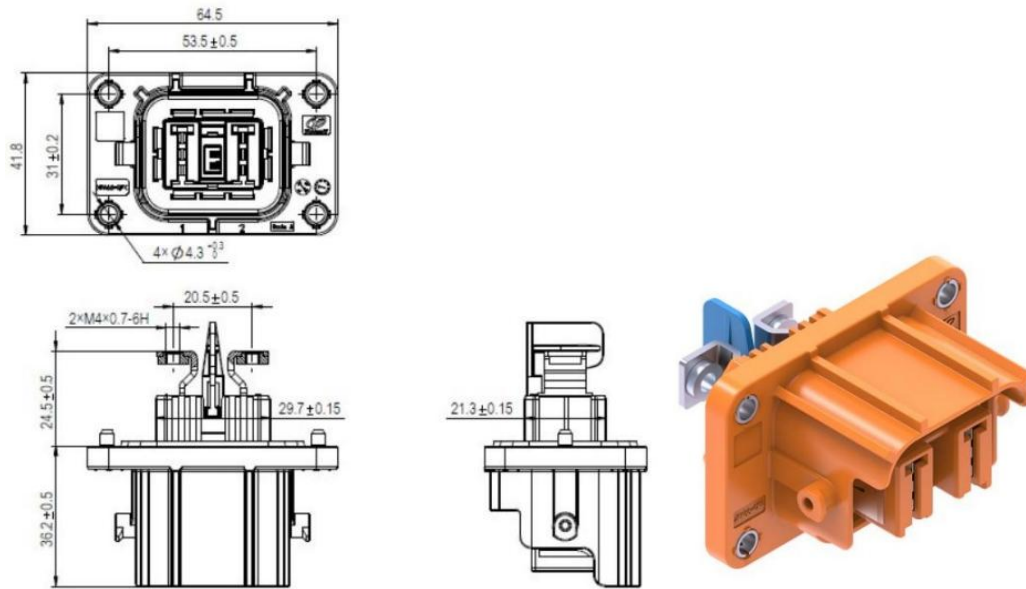
2. YGEV3-P2PWH Series Plug Assembly Outline (Unspecified Tolerance: ± 0.5)



3. YGEV3-S2R Series Socket Assembly Outline (Unspecified Tolerance: ± 0.5)

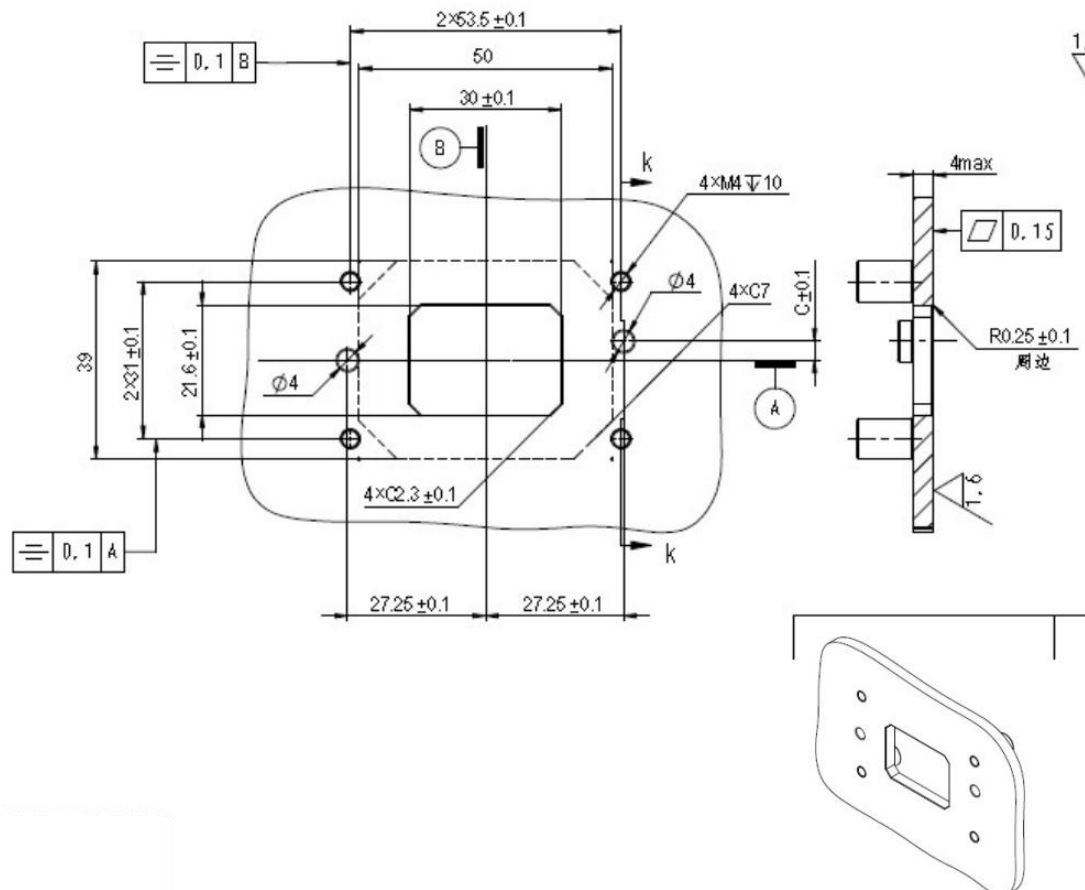


4. YGEV3-S2R6 Series Socket Assembly Outline (Unspecified Tolerance: ± 0.5)



5. Socket Installation Hole Dimensions

Note: Recommended flange locking screws: M4 combination screws, tightening torque 3 ± 0.5 N.M





5 INSTALLATION_INSTRUCTIONS

Special Tools	
Disassembly Tool	/
Insertion Tool	/
Crimping Tool	/
Other Tools	/

6 STORE

Packaging, Storage, and Transportation Instructions	
Storage Requirements	Contact parts (gold-plated, silver-plated) must be stored separately, kept clean, dry, and ventilated. Storage environment should be controlled at humidity $\leq 60\%$ and temperature between 5~30°C. Shelf life: 6 months.
Transportation Requirements	Terminals should avoid collisions, exposure to corrosive gases and liquids, and direct hand contact during packaging, transportation, and assembly to ensure good contact surface quality.