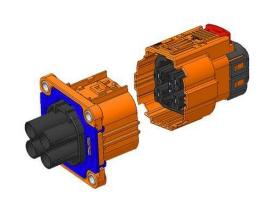
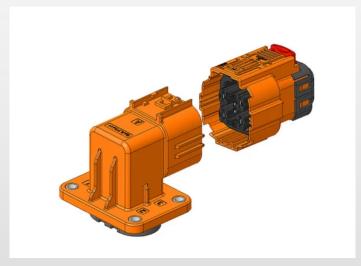


Technical Datasheet

GC-SH1 4-POS Plastic HV Connector

Product overview





GC-SH1 4-Pole Plastic HV Connector

GC-SH1 high-voltage interlocking low-current plastic connector is suitable for electrical connections between motor controllers, PDU, all-in-one, PTC and other automotive equipment. The product adopts a plastic shell. In addition to functions such as high-voltage interlocking, secondary locking, multi-key error-proofing, shielding, and waterproofing, it also has functions such as delayed separation (segment unlocking) and plug terminal TPA.

The main technical parameters:

Model: GC-SH1

Pole: 4 pos

Wire cross section: 2.5mm²; 4mm²; 6mm²

Rated current: 20A; 32A; 40A

Rated voltage: 1000V DC

Withstand voltage: 4000V AC

Insulation resistance: 5000MΩ

Protection level: IP68, IP69K

Socket type: 90° bent socket, 180°

Salt spray: 96h

HVIL: YES

Mating cycles: 100 times

GC-SH1 4-Pole HVIL Plastic Connector

	Rated voltage Withstand voltage	1000V 4000V
	Rated current	20A(2.5mm²), 32A(4mm²), 40A(6mm²)
Electrical Performance		
	Impulse current	40A, 2min(2.5mm²)、64A, 2min(4mm²)、80A, 2min(6mm²)
	Insulation resistance	5000ΜΩ
	Pole	4 Pos.
	Mating cycles	100Times
Mechanical Properties	Cross sections	2.5mm²/4mm²/6mm²
	Vibration class acc. To	USCARV2
	Shell	Nylon
Raw Material	Shielding	Copper alloy
	Insulator	Nylon
	Sealing	Rubber material
	Operating temperature	-40°C~140°C
Environmental Performance	Protection Grade	IP68、IP69K
	Salt Spray	96h

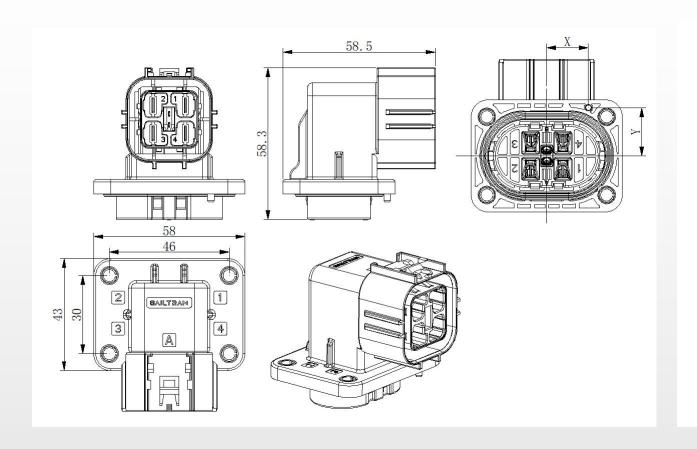


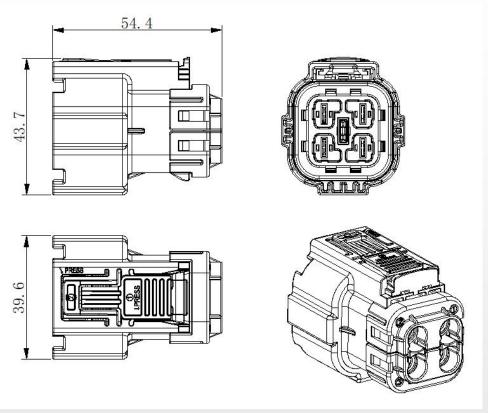
MODEL NUMBER DESIGNATION

Series name	GC-SH1	GC-SH1	-	4	Т	Р	Н	-	4	W	Α	-01
Function	Plastic HVIL Connector											
Separator	-											
Pole	4 POS											
Туре	T-Plug; Z-Socket											
Shielding	Default: none; P-Shielding											
HVIL	Default: none; H-HVIL											
Separator	-											
Cable cross section	2.5/4/6 mm2											
Cable type	Default: Single-core cable											
Cable outlet direction	Default: Straight; W-Bent											
Socket type	Default: Plug/Square Socke U:Wire shedding socket	t										
Keys	A/B/C/D											
Remodel	Default / Remodel: 01/Remodel:	odel: 02										



GC-SH1 4-Pole HVIL Plastic Connector

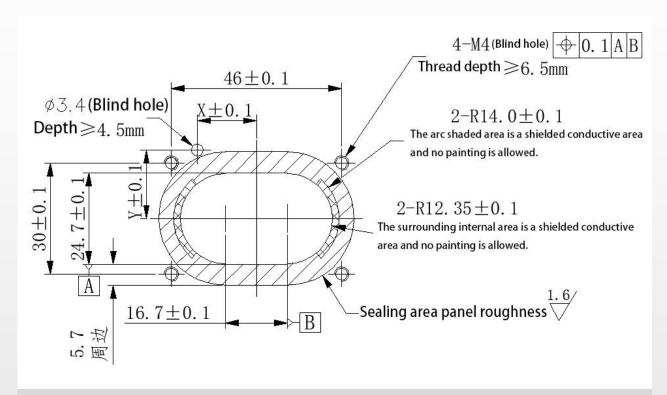




Dimension



GC-SH1 4-Pole HVIL Plastic Connector



Note: The surface flatness of the user's installation panel shall not be greater than 0.1mm, and the roughness Ra shall not be greater than 3.2. Use M4 screws and the recommended tightening torque is 2.7±0.3N·m.

MODEL	X	Υ
SH1-4ZPH-6WA	16	18.5
SH1-4ZPH-6WB	7.5	18.5
SH1-4ZPH-4WA	16	18.5
SH1-4ZPH-4WB	7.5	18.5
SH1-4ZPH-2.5WA	16	18.5
SH1-4ZPH-2.5WB	7.5	18.5

Hole Size (installation panel thickness ≥2mm)

Recommended Installation Panel Size and Model Correspondence Table



Custom Solution Provider

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Email Address: ec@guchen.com

Website: www.guchen-connector.com