

SPECIFICATION

Product Name

Multipole power connector

一、 Outline and dimensions: Outline and dimensions of the connector is shown on the following drawing

二、 Technical Parameters:

1. Product Specifications

1-1.Rated current(Amperes): 50A

1-2.Rated voltage(Volts): 600V

1-3.Insulation Resistance:5000M Ω

1-4.contact Resistance(m Ω): 0.055 ± 0.005

1-5.Voltage Proof:2200V(DC)

1-6.Life:

a. Without load(Contact/Disconnect Cycles):To 10000

b. With Load(Hot Plug 250 Cycles& 120V):40A

1-7.Flammability:UL94 V-0

1-8.Average.Connection/disconnect(N):

a. The insertion force of finished products: $\geq 1.5\text{kgf}$

b. The pullout force of finished products: $\geq 2\text{kgf}$

c. The pulling capacity between wire and terminal, It' s in line with UL standard

1-9.Contact Barrel Wire Size(AWG):6AWG~10/12AWG

1-10.Connector holding force(LBF):250N Min

1-11.Environment Temperatures($^{\circ}\text{C}$):-20 $^{\circ}\text{C}$ ---125 $^{\circ}\text{C}$

2. Material and Surface performance

2-1.Material of terminal: Red copper

2-2.Process of production: Precision punching

2-3.Fully Ag-plating on surface, it's Ag-plating thickness is 1 μm

2-4.Shrapnel:Stainless steel

2.5.Process of production: Precision punching

2-6.Housing: Material PC

2-7. Process of production: Plastic Injection

三、 (Packing and Storage)

1. Standard packing qty: 50pcs/bag for connector; 150pcs/bag for terminal; mate with way: 1connector uses 2 terminal.

2.The products storage condition: temperature: 5-30 $^{\circ}\text{C}$,relative humidity:80%, store in no acidic nor alkaline and no corrosive atmosphere warehouse, storage period: 2years.

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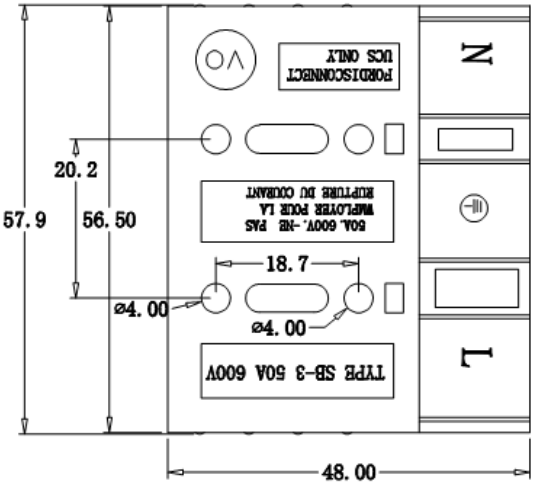
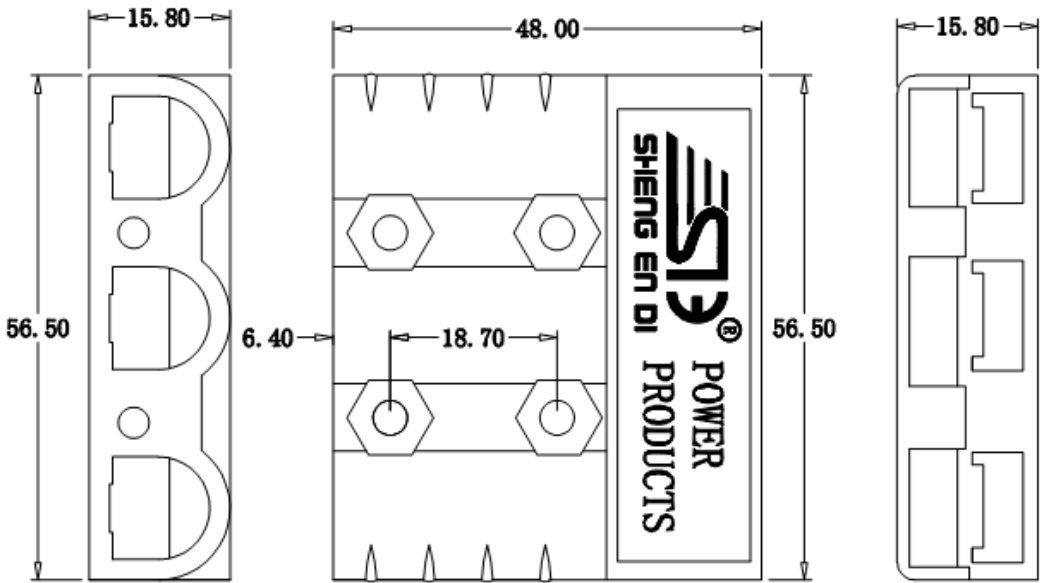
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四、Ordering Information

1.Housing

Part Number	Housing Color	Part Number	Housing Color
SGD50H-BL	Black	SGD50H-GR	Green
SGD50H-BR	Brown	SGD50H-BE	Blue
SGD50H-RE	Red	SGD50H-PU	Purple
SGD50H-OR	Orange	SGD50H-GY	Gray
SGD50H-YE	Yellow	SGD50L-WH	White



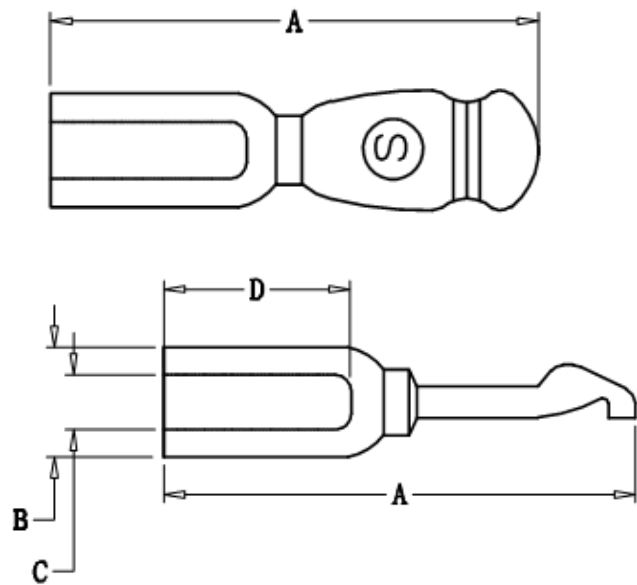
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2.Terminal

Part Number	-A-(mm)	-B-(mm)	-C-(mm)	-D-(mm)	Wire size	Current
SGD5900-T	29.6	6.9	5.6	12.2	6AWG	50A
SGD5952-T	29.6	6.9	4.7	12.2	8AWG	50A
SGD5915-T	29.6	6.9	3.5	12.2	10-12AWG	50A



Item	Name	QTY	Material	Remarks			
1	Housing	1	PC1010				
2	Shrapnel	3	Stainless steel				
3	Terminal	3	Red copper	Ag-plating thickness			
Revision	Change the content			Date	Producer	Corrector	Approved
					Anne	Jack	David Xiao
					Proportion		1:1
					Unit		MM