

SPECIFICATION

Product Name

Single power connector

Part No

SD180 Series

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): 180A

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

1-3.Insulation Resistance:5000MΩ

1-4.average contact Resistance(micro-ohms):<95

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):180A

1-7.Flammability:UL94 V-0

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

a. The insertion force of finished products: ≥2kgf

b. The pullout force of finished products: ≥2. 5kgf

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

1-9.Contact Barrel Wire Size(AWG):1/0~4AWG

1-10.Connector holding force(LBF):500N Min

1-11.Environment Temperatures(°C):-20°C---125°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 1μm

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; 50pcs/bag for terminal; mate with way: 1connector uses 1 terminal.

2.The products storage condition: temperature: 5-30 °C ,relative humidity:80%, store in no acidic nor alkaline and no corrosive atmosphere warehouse, storage period: 2years.

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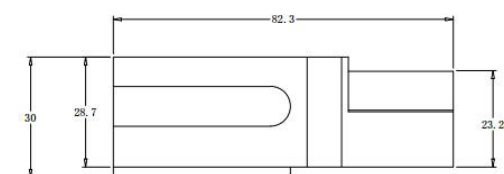
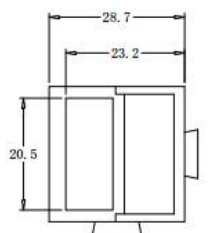
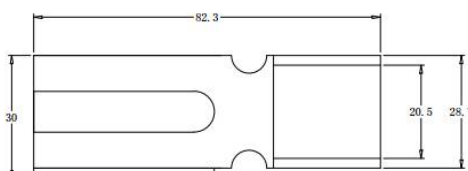
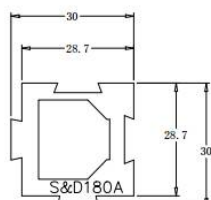
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四、Ordering Information

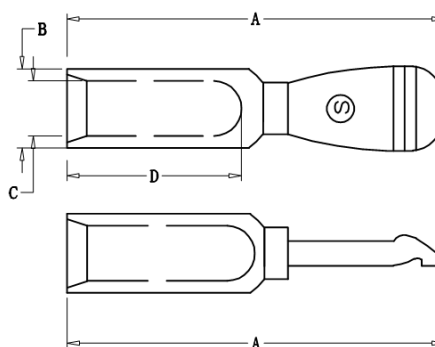
1.Housing

Part Number	Housing Color	Part Number	Housing Color
SD180H-BL	Black	SD180H-GR	Green
SD180H-BR	Brown	SD180H-BU	Blue
SD180H-RE	Red	SD180H-PU	Purple
SD180H-OR	Orange	SD180H-GY	Gray
SD180H-YE	Yellow	SD180L-WH	White



2.Terminal

Part Number	-A-(mm)	-B-(mm)	-C-(mm)	-D-(mm)	Wire size	Current
SGD1382-T	57.8	12.8	11.2	21	1/0AWG	175A
SGD1383-T	57.8	12.8	8.9	21	2AWG	150A
SGD1384-T	57.8	12.8	7.6	21	4AWG	120A



Item	Name	QTY	Material	Remarks	Remarks: 1. Please fax to us the CS when you confirmed. (Fax: 0769-27280273). 2. If the products listed in the book need to be re-opened for more than 1 year, please fax the copy to our company for confirmation.		
1	Housing	1	PC				
2	Shrapnel	1	Stainless steel				
3	Terminal	1	Red copper	Ag-plating			
Revision	Change the content			Date	Producer	Corrector	Approved
					Anne	Jack	David Xiao
					Proportion		1:1
					Unit		MM