

# M12 Male Panel Mount, PCB Type, Front Fastened, Shielded Pin

M12 Circular Connector

Download date : 2025-12-07



Connector Series : M12  
Gender : Male  
Coding : A,B,C,D  
Locking Type : Fix Screw  
Mounting Type : Front Fastened  
Part No : M12-X\*\*-ST1-M01-BQ3  
X:A,B,C,D Coding  
\*\*:03,04,05...(Pin)  
BQ3=M12X1.0(OD3)



For reference only!version1.0

## Technical Data

|                       |                    |
|-----------------------|--------------------|
| Standard              | IEC61076-2-101     |
| Ambient Temperatur    | -40°C~+105°C       |
| Insulation Resistance | ≥100MΩ             |
| Contact Resistance    | ≤10mΩ              |
| IP Class              | IP67               |
| Mating Endurance      | >100 Mating Cycles |

## Material Data

|                          |                                     |
|--------------------------|-------------------------------------|
| Connector Carriers       | PA                                  |
| Connector Contacts       | Copper Alloy With Gold Plated 铜镀金   |
| Connector Nut/Screw      | Copper Alloy With Nickel Plated 铜镀镍 |
| Seal/O-Ring              | FKM 氟橡胶                             |
| Shielding                | Ground 接地                           |
| Length of the Solder Pin | 6mm                                 |

## Electrical Data & Mechanical Date

|              |         |       |         |           |
|--------------|---------|-------|---------|-----------|
| Contacts Pin | 3/4Pins | 5Pins | 6/8Pins | 12/17Pins |
|--------------|---------|-------|---------|-----------|

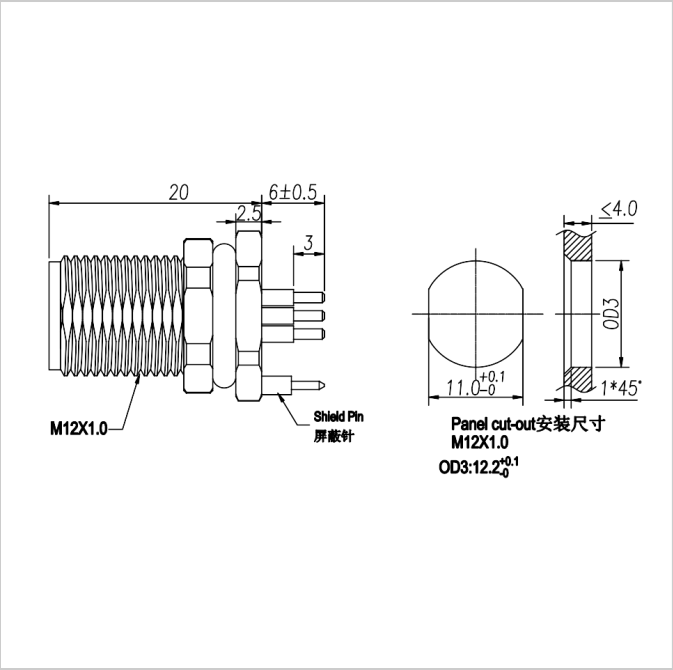
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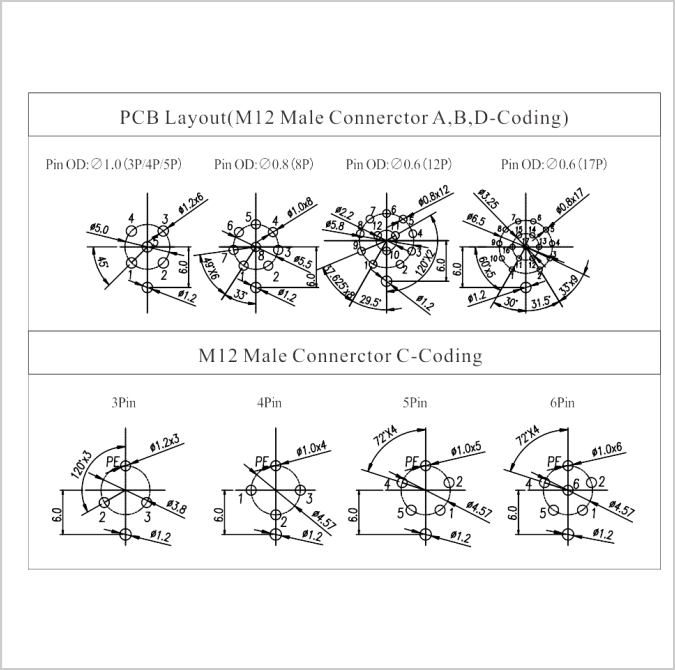


|                      |             |               |     |      |
|----------------------|-------------|---------------|-----|------|
| Rated Current        | 4A          | 4/2A (C-code) | 2A  | 1.5A |
| Voltage AC/DC        | 250V        | 60V           | 30V | 30V  |
| Contacts Termination | PCB Version |               |     |      |

Dimensions



PCB opening diagram



Specification Selection Table

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| Contacts<br>Pin数                                                                                                                                                                                | Available Coding 防插错编码 |          |          |          | Rated Current<br>额定电流 | Voltage 电压                   |      | Contacts Termination<br>连接方式 | Part NO.产品编号                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------|----------|----------|-----------------------|------------------------------|------|------------------------------|------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                 | A-Coding               | B-Coding | C-Coding | D-Coding |                       | AC                           | DC   |                              |                                                                                          |
| 03Pins                                                                                                                                                                                          |                        |          |          |          | 4A                    | 250V                         | 250V | PCB Version                  | M12-A03-ST1-M01-BQ3<br>M12-B03-ST1-M01-BQ3<br>M12-C03-ST1-M01-BQ3                        |
| 04Pins                                                                                                                                                                                          |                        |          |          |          | 4A                    | 250V                         | 250V | PCB Version                  | M12-A04-ST1-M01-BQ3<br>M12-B04-ST1-M01-BQ3<br>M12-C04-ST1-M01-BQ3<br>M12-D04-ST1-M01-BQ3 |
| 05Pins                                                                                                                                                                                          |                        |          |          |          | 4A<br>2A<br>(C-code)  | 60V                          | 60V  | PCB Version                  | M12-A05-ST1-M01-BQ3<br>M12-B05-ST1-M01-BQ3<br>M12-C05-ST1-M01-BQ3                        |
| 06Pins                                                                                                                                                                                          |                        |          |          |          | 2A                    | 30V                          | 30V  | PCB Version                  | M12-C06-ST1-M01-BQ3                                                                      |
| 08Pins                                                                                                                                                                                          |                        |          |          |          | 2A                    | 30V                          | 30V  | PCB Version                  | M12-A08-ST1-M01-BQ3                                                                      |
| 12Pins                                                                                                                                                                                          |                        |          |          |          | 1.5A                  | 30V                          | 30V  | PCB Version                  | M12-A12-ST1-M01-BQ3                                                                      |
| 17Pins                                                                                                                                                                                          |                        |          |          |          | 1.5A                  | 30V                          | 30V  | PCB Version                  | M12-A17-ST1-M01-BQ3                                                                      |
| PCB Layout(M12 Male Connector A,B,D-Coding)                                                                                                                                                     |                        |          |          |          |                       | M12 Male Connector C-Coding) |      |                              |                                                                                          |
| <p>Pin OD: <math>\varnothing 1.0</math> (3P/4P/5P)    Pin OD: <math>\varnothing 0.8</math> (8P)    Pin OD: <math>\varnothing 0.6</math> (12P)    Pin OD: <math>\varnothing 0.6</math> (17P)</p> |                        |          |          |          |                       |                              |      |                              |                                                                                          |