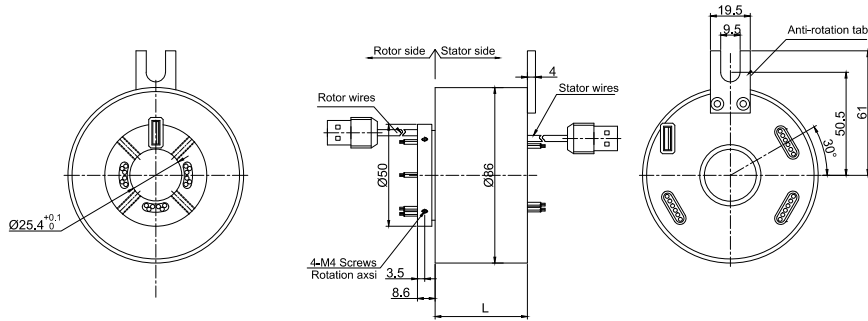


MUSB2251 (1 Channel USB Slip Rings)

1 channel USB2.0+ 1~32 wires power/signal

MUSB2251 USB series slip ring with bore size 25.4mm,outer diameter 86mm,support 1 channel USB1.0/USB2.0,It can transmit signal stably,without code loss and low insertion loss. Using military depositing technique,precious metal and super hard gold-plated processing,it has minimum BER error rate and high signal-to-noise ratio(SNR)



Part# Explanation

MUSB2251 - P 02 10- S 06



Parts# List

| MUSB2251 1 channel USB series part#list | | | | | |
|---|-------------|-----|-----|--------------|------------|
| Part# | USB channel | 10A | 20A | Signal or 5A | Length(mm) |
| MUSB2251-S02 | 1 | 0 | 0 | 2 | 45.2 |
| MUSB2251-P0210 | 1 | 2 | 0 | 0 | 45.2 |
| MUSB2251-P0420 | 1 | 0 | 4 | 0 | 65.6 |
| MUSB2251-S08 | 1 | 0 | 0 | 8 | 65.6 |
| MUSB2251-P0210-S06 | 1 | 2 | 0 | 6 | 65.6 |
| MUSB2251-P0610-S02 | 1 | 6 | 0 | 2 | 65.6 |
| MUSB2251-S14 | 1 | 0 | 0 | 14 | 86 |
| MUSB2251-P1410 | 1 | 14 | 0 | 0 | 86 |
| MUSB2251-P0410-S10 | 1 | 4 | 0 | 10 | 86 |
| MUSB2251-P0810-S06 | 1 | 8 | 0 | 6 | 86 |
| MUSB2251-S20 | 1 | 0 | 0 | 20 | 106.4 |
| MUSB2251-S26 | 1 | 0 | 0 | 26 | 126.8 |
| MUSB2251-S32 | 1 | 0 | 0 | 32 | 147.2 |

Note: 1) N channels 10A rings parallel can be used as 1 channel N*10A current. For example: 2 rings 10A parallel could be used as 1 wires 20A
 2) 10A, 20A, 5A can be combined according to your requirements,please contact customer service for more detmails.

Specifications

| USB Specifications | | Mechanical Data | |
|-----------------------|---|---------------------|--------------------------|
| Parameter | Value | Parameter | Value |
| USB | USB1.0,USB2.0 | Working Life | 20 million |
| Connector | USB TYPE-A female connector | Rotating Speed | 600RPM |
| BER | 10E-11 | Working Temperature | -30°C~80°C |
| Electrical Data | | Operating Humidity | 0~85% RH |
| Parameter | Value | Contact Material | Gold-Gold |
| Rated Voltage | Power | Housing Material | Aluminium Alloy |
| | Signal | Torque | 0.1N.m ; +0.03N.m/6rings |
| Insulation Resistance | $\geq 1000\text{M}\Omega/500\text{VDC}$ | Protection Grade | IP51 |
| Lead Wires | AWG16#Teflon | | |
| Lead Length | Standard 300mm (adjustable) | | |
| Dielectric Strength | 500VAC@50Hz , 60s | | |
| Electrical Noise | <0.01Ω | | |

Lead Wires Color Code

| Ring | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Code | BLK | RED | YLW | GRN | BLU | WHT | RED | RED | YLW | GRN | BLU | WHT |

6 wires for 1 group color, from 7-12, repeat the same color as 1...6, indicated with number code pipe

Options For Custom Slip Ring

Note: Below special demands can be customized. According, the delivery date will be extended 3 to 15 days; also the cost will be increased 30% to 50%. Most of our basic parts are standard and modular, which can save the cost and lead time.

- ① Bore diameter can be customized; cable exit way and cable length can be customized for both rotor and stator.
- ② Because of the structure limitation, length/height/OD can be customized on your request.
- ③ Support current or signal up to 200 rings.
- ④ Aviation plug, terminal and heat-shrink tube are optional.
- ⑤ Hybrid slip ring for Yaskawa/Panasonic/Siemens servo control signal, power line and encoder line.
- ⑥ Support mixed high speed data transmission (including Ethernet, USB, RS232, RS485, Profibus, CanBUS, CANOPEN, DeviceNET, CC-LINK, ProfiNET, EtherCAT, etc.)
- ⑦ Can combine temperature control signal with thermocouple signal.
- ⑧ Special environment can be customized, such as quakeproof, high temperature, etc.
- ⑨ Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- ⑩ High temperature can up to 500 degrees.
- ⑪ High pressure can up to 110KV
- ⑫ Rotating speed can up to 10000RPM
- ⑬ Maximum current can up to 5000 amperes.
- ⑭ Military grade
- ⑮ Optional for underwater IP65, IP68.
- ⑯ Optional for stainless steel housing

Technical support: technical@moflon.com