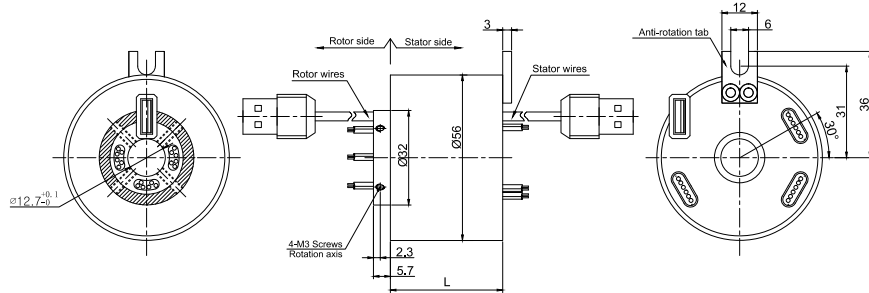


# MUSB2121 (1 Channel USB Slip Rings)

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

MUSB2121 USB series slip ring with bore size 12.7mm,outer diameter 56mm,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

## MUSB2121 - P 02 10- S 06



### Parts# List

MUSB2121 1 channel USB series part#list					
Part#	USB channel	10A	20A	Signal or 5A	Length(mm)
MUSB2121-S02	1	0	0	2	38
MUSB2121-P0210	1	2	0	0	38
MUSB2121-P0420	1	0	4	0	54.8
MUSB2121-S08	1	0	0	8	54.8
MUSB2121-P0210-S06	1	2	0	6	54.8
MUSB2121-P0610-S02	1	6	0	2	54.8
MUSB2121-S14	1	0	0	14	71.6
MUSB2121-P1410	1	14	0	0	71.6
MUSB2121-P0410-S10	1	4	0	10	71.6
MUSB2121-P0810-S06	1	8	0	6	71.6
MUSB2121-S20	1	0	0	20	88.4
MUSB2121-S26	1	0	0	26	105.2
MUSB2121-S32	1	0	0	32	122

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
		Housing Material	Aluminium Alloy
Rated Voltage	0~440VAC/VDC	Torque	0.1N.m ; +0.03N.m/6rings
Insulation Resistance	≥1000MΩ/500VDC	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](mailto:technical@moflon.com)