

USB221 Series Overview

Description

Slip ring is a precision device can be used in any electromechanical system that transfer signal and power from a stationary to a rotating structure, and the power and all kinds of signal can combination in one slip ring.

USB221 slip ring with 22mm outer diameter , can be mixed transmission signal. With transmission stability, no packet loss, no string of code, low return and insertion loss. Ultra-low BER error rate and superior signal to noise ratio.



Specifications

Item	
Operating Speed	Max.250 RPM*
Number of Circuits	1x USB2.0 + 2~30 wires
Lead Wire	USB cable, AWG28# Teflon
Voltage	240V AC/DC
Operating Temperature	-20℃ to 60℃
Current Rating	Signal / 2A circuits
Noise	<0.01Ω
Torque	0.02N.m
Housing Material	Plastic
Protection Grade	IP51

* Please note that the operational life of the unit is dependent upon rotational speed, environment and temperature

Options

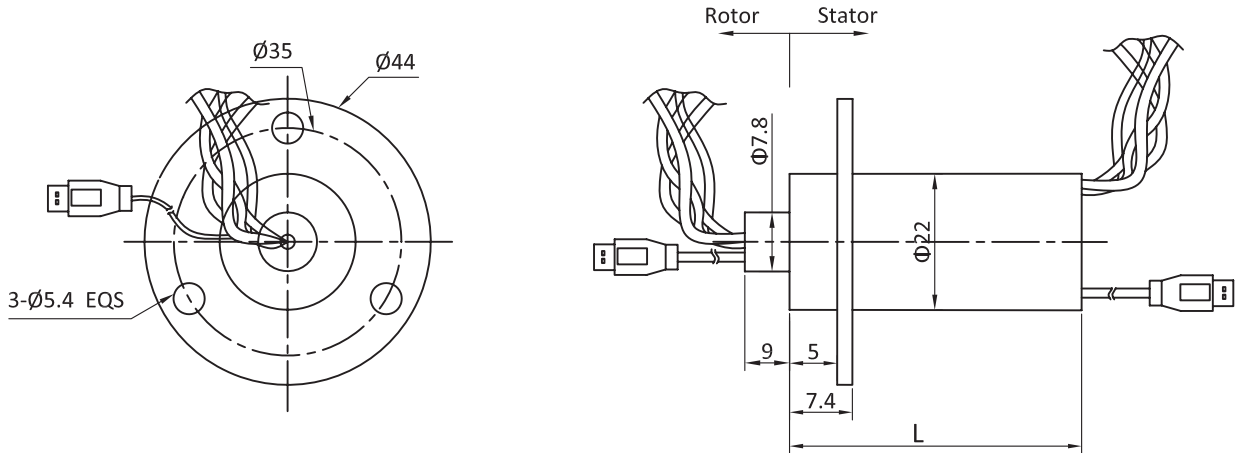
- Support mixed high speed data transmission
- Longer lead lengths are available
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Terminal and heat-shrink tube are optional

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USB221 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Power Circuits(5A/10A)	Signal (2A)	USB2.0	OD(mm)	Length(mm)
USB221-06S	-	6	1	22	26.4
USB221-12S	-	14	1	22	35
USB221-18S	-	26	1	22	42.5
USB221-30S	-	30	1	22	48.4

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	BLK	Signal / 2A, AWG28#	7	BLU	Signal / 2A, AWG28#
2	BRN		8	VIO	
3	RED		9	GRY	
4	ORN		10	WHT	
5	YEL		11	PINK	
6	GRN		12	SOFT-BLU	

Notes:

12 wires for 1 group color, from 12~24 circuits would repeat the same color.