

# AR / BR / CR Series<sup>1</sup> Capsule Slip Rings

SLIP RING



## Product Features

- Compact size & structure
- Adopt military grade surface treatment, gold to gold contact
- Low contact resistance, low electrical noise, low torque and smooth rotation
- Transmit data and analogue signal, compatible with bus protocol

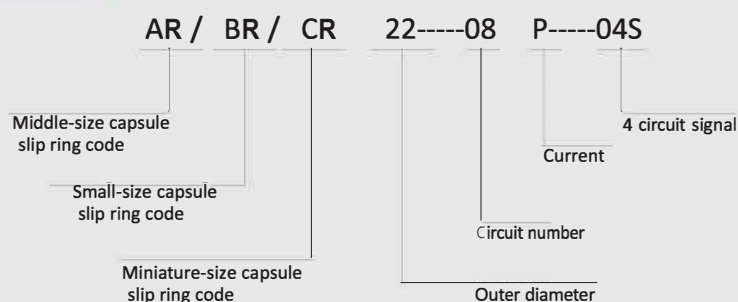
## Options

- Circuit number: 1 - 200
- Protection grade: IP51 - IP68
- Operation temperature: -55 to +250°C
- Support various signal / power mixed transmit
- Lead wire length/Cable exit way/Termination

## Typical applications

- Surveillance/LED
- Radar antenna/Military equipment
- UAV/Robot/Mechanical arm
- Medical equipment/Instrument

## Model Part No. Explanation



Custom design and specifications may be available upon request. Please contact us for details.

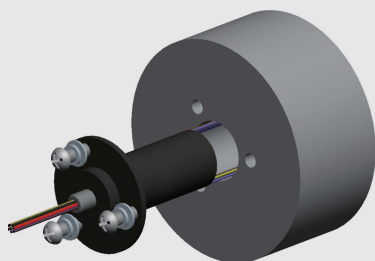
# AR /BR /CR Series Capsule Slip Rings

## SLIP RING

### Specification Table

Housing Material:	AR	BR	CR
Electric current :	2A (or higher)	1A (or higher)	1A
Number of circuit:	1 - 76	1 - 24	1 - 12
Outer diameter:	22 - 25mm	12.4 - 16mm	6.5mm / 7.9mm
Lead Wire Size:	AWG28# Silver plated Teflon ®UL		AWG30# Silver plated Teflon ®UL
Dielectric Strength:	500VDC@50Hz,10s		200VDC@50Hz,60s
Insulation Resistance:	100MΩ@500VDC,60s		10MΩ@100VDC
Working Speed:	0 - 300rpm (or more circuits)		
Working Temperature:	-20°C to +80°C		
Working Humidity:	60%RH		
Electrical Noise:	<10mΩ@6VDC,50mA,300RPM		
Lead wire length:	300mm		
Torque:	≤0.88 g. m		
Contact Material:	Precious Metal		
Protection(IP Grade):	IP54		
Material compliance :	RoHScertification		
CE certification:	Yes		
Housing Material :	Engineering plastics		

### Installation



1. This series slip ring is designed for mounting on the sleeve bracket through flange. Rotor must be concentric driven by a kind of flexible connection. Rotor lead wire could be the drive under a certain speed.
2. Slip ring couldn't bear the force from the connected equipment. The rotation equipment should be locked to avoid weight on the slip ring rotor.
3. Protect all lead wire won't be damaged during equipment rotation,align wires should notice all wires couldn't bear any weight.
4. Take care not injure the skin of the lead wire when peel the head of lead wire.

# Outline drawing

AR Series		BR & CR Series																							
Model	Dimension ( mm )	Model	Dimension ( mm )																						
AR22A	<table><tr><th>MODEL</th><th>L (MM)</th></tr><tr><td>AR22A-6</td><td>19</td></tr><tr><td>AR22A-12</td><td>28</td></tr><tr><td>AR22A-15</td><td>29.5</td></tr><tr><td>AR22A-18</td><td>33.4</td></tr><tr><td>AR22A-24</td><td>41.2</td></tr><tr><td>AR22A-30</td><td>49.5</td></tr><tr><td>AR22A-36</td><td>56.8</td></tr></table>	MODEL	L (MM)	AR22A-6	19	AR22A-12	28	AR22A-15	29.5	AR22A-18	33.4	AR22A-24	41.2	AR22A-30	49.5	AR22A-36	56.8	BR12	<table><tr><th>MODEL</th><th>L (MM)</th></tr><tr><td>BR12-6</td><td>19</td></tr><tr><td>BR12-12</td><td>19.5</td></tr></table>	MODEL	L (MM)	BR12-6	19	BR12-12	19.5
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