

STR Series Through Bore Slip Ring

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This series is specially designed through bore for hydraulic or pneumatic rotating shaft installation, the through hole is option from 4~300mm. Also known as through hole slip ring, hollow shaft slip ring, gold-on-gold multiple points contact and advanced fiber optic contact technology; high speed, high current, hybrid transmission are available.



Features:

- Continuous 360° rotation of power or data signals
- Shaft mounting is standard, flange is option.
- Gold-on-gold contact
- No require lubrication
- Power and signal (2, 5 and 10 amp) circuits may be combined
- Uses fiber brush technology which offers several advantages over conventional slip ring contacts including multiple points of contact per brush bundle

STR SERIES MODEL#

Model#	ID(mm)	OD(mm)	Current(A)	Voltage(V AC/DC)	Number Of Circuits
STR004	4	22	2	250	2~18
STR005	5	22	2	250	2~12
STR007	7	24.8	2	250	2~12
STR009	9	25	2	250	2~12
STR215	15	32.8	2	250	2~24
STR220	20	42	2	250	2~12
STR12	12.7	56	2 / 5 / 10	380	2~48
STR25	25.4	86	2 / 5 / 10	440	2~72
STR30	30	99	2 / 5 / 10	440	2~72
STR38	38.1	99	2 / 5 / 10	440	2~72
STR50	50	119	2 / 5 / 10	600	2~108
STR60	60	130	2 / 5 / 10	600	2~108
STR70	70	158	2 / 5 / 10	600	2~108
STR80	80	158	2 / 5 / 10	600	2~108
STR90	90	185	2 / 5 / 10	600	2~108
STR100	100	185	2 / 5 / 10	600	2~108
STR120	120	215	2 / 5 / 10	600	2~108
STR150	150	248	2 / 5 / 10	600	2~108
STR180	180	298	2 / 5 / 10	600	2~108

STR004 Series Overview

Description

A slip ring can be used in any electromechanical system that requires unrestrained, continuous rotation while transferring power and / or data from a stationary to a rotating structure. A slip ring is also called a rotary electrical interface, electrical collector, swivel, or a rotary joint.

The STR004 series slip ring with 4 mm thru hole for installation, and compact 22 mm outside diameter for minimal space applications.



Specifications

Item	
Operating Speed	Max.250 RPM*
Number of Circuits	18 wires
Lead Wire	AWG28# 250mm
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

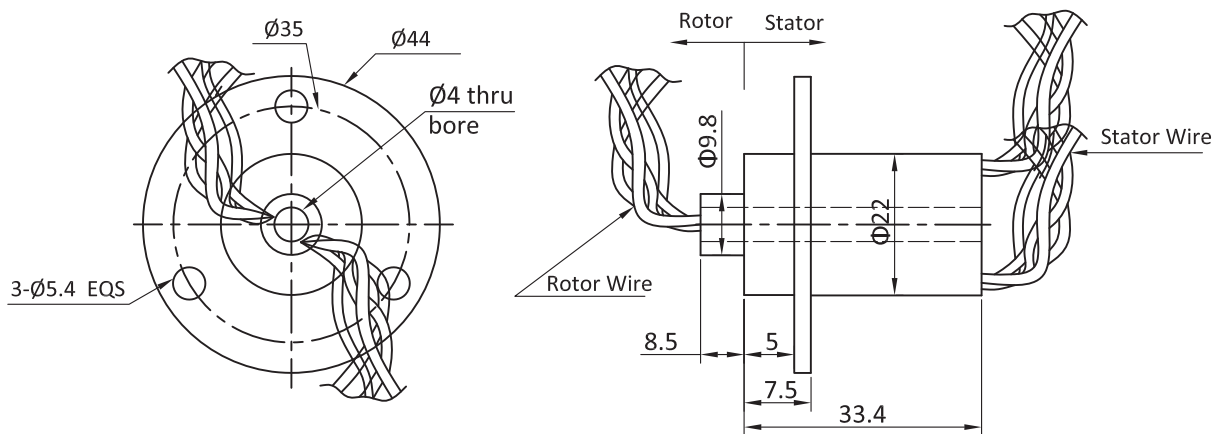
- Flange or non-flange
- Longer lead lengths are available
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Terminal and heat-shrink tube are optional

INTRODUCE

STR004

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STR004 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Power Circuits(5A/10A)	Signal (2A)	Voltage(V)	OD(mm)	Length(mm)
STR004-S18	-	18	240	22	33.4

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.

STR005 Series Overview

Description

A slip ring can be used in any electromechanical system that requires unrestrained, continuous rotation while transferring power and / or data from a stationary to a rotating structure. A slip ring is also called a rotary electrical interface, electrical collector, swivel, or a rotary joint.

The STR005 series slip ring with 5mm hole for installation, and compact 22mm outside diameter for minimal space applications.

**Specifications**

Item	
Operating Speed	Max.250 RPM*
Number of Circuits	6,12 wires
Lead Wire	AWG28# 250mm
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

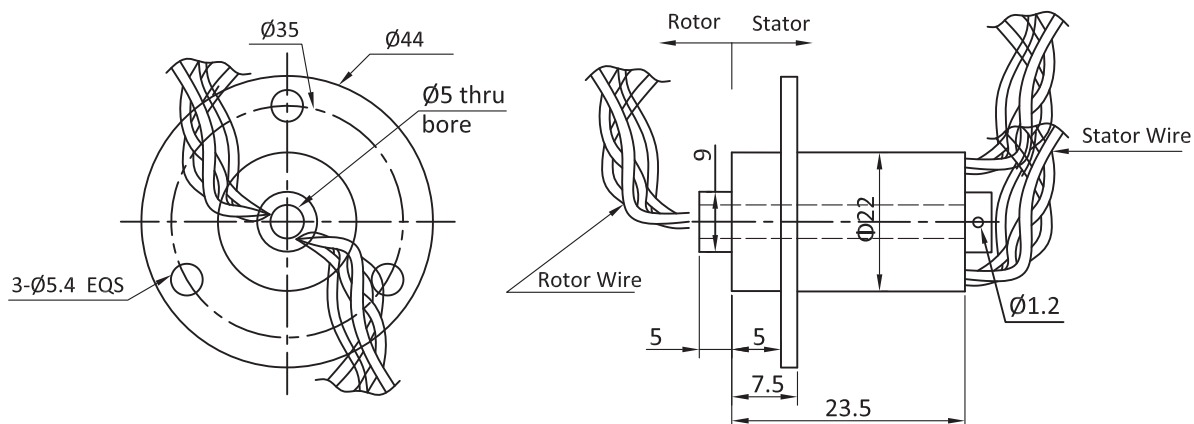
Options

- Flange or non-flange
- Longer lead lengths are available
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Terminal and heat-shrink tube are optional

INTRODUCE

STR005

STR005 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Power Circuits(5A/10A)	Signal (2A)	Voltage(V)	OD(mm)	Length(mm)
STR005-S06	–	6	240	22	19
STR005-S12	–	12	240	22	23.5

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.

STR007 Series Overview

Description

A slip ring can be used in any electromechanical system that requires unrestrained, continuous rotation while transferring power and / or data from a stationary to a rotating structure. A slip ring is also called a rotary electrical interface, electrical collector, swivel, or a rotary joint. The STR007 series slip ring with 7 mm hole for installation, and compact 24.6 mm outside diameter for minimal space applications

**Specifications**

Item	
Operating Speed	Max.250 RPM*
Number of Circuits	12 wires
Lead Wire	AWG28# 250mm
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

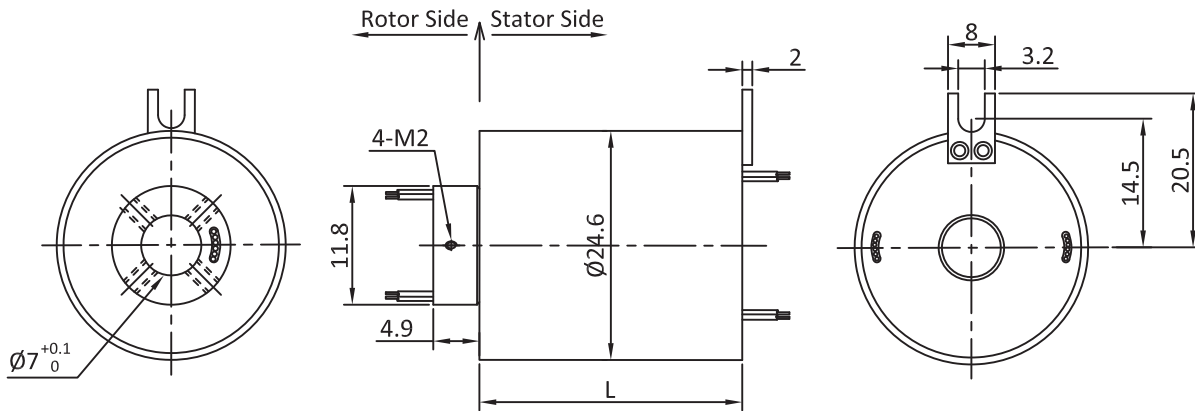
- Flange or non-flange
- Longer lead lengths are available
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Terminal and heat-shrink tube are optional

INTRODUCE

STR007

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STR007 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Power Circuits(5A/10A)	Signal (2A)	Voltage(V)	OD(mm)	Length(mm)
STR007-S12	-	12	240	24.6	26.7
-	-	-	-	-	-

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.

STR009 Series Overview

Description

A slip ring can be used in any electromechanical system that requires unrestrained, continuous rotation while transferring power and / or data from a stationary to a rotating structure. A slip ring is also called a rotary electrical interface, electrical collector, swivel, or a rotary joint.

The STR009 series slip ring with 9 mm hole for installation, and compact 25mm outside diameter for minimal space applications



Specifications

Item	
Operating Speed	Max.250 RPM*
Number of Circuits	12 wires
Lead Wire	AWG28# 250mm
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

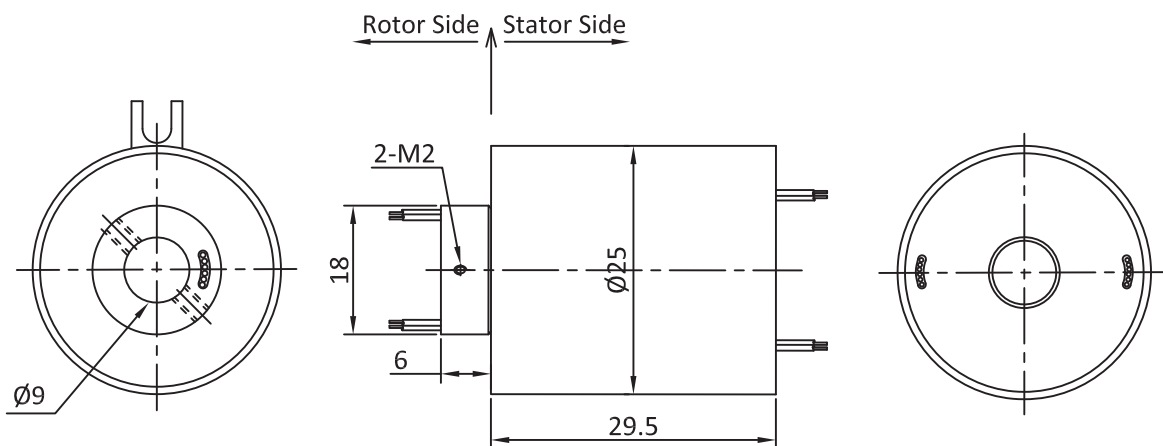
- Flange or non-flange
- Longer lead lengths are available
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Terminal and heat-shrink tube are optional

INTRODUCE

STR009

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STR009 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Power Circuits(5A/10A)	Signal (2A)	Voltage(V)	OD(mm)	Length(mm)
STR009-S12	-	12	240	25	29.5

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.

STR215 Series Overview

Description

A slip ring can be used in any electromechanical system that requires unrestrained, continuous rotation while transferring power and / or data from a stationary to a rotating structure. A slip ring is also called a rotary electrical interface, electrical collector, swivel, or a rotary joint.

The STR215 series slip ring with 15mm hole for installation, and compact 32.6mm outside diameter for minimal space applications



Specifications

Item	
Operating Speed	Max.250 RPM*
Number of Circuits	12,24 wires
Lead Wire	AWG28# 250mm
Voltage	240V AC/DC
Operating Temperature	-20℃ to 60℃
Current Rating	Signal / 2A circuits
Noise	<0.01Ω
Torque	0.02N.m
Housing Material	AL Alloy
Protection Grade	IP51

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

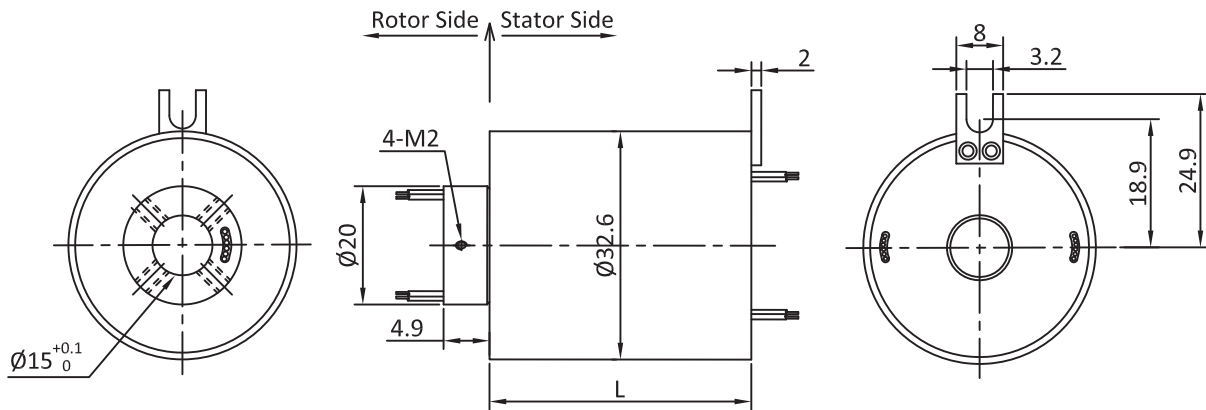
Options

- Flange or non-flange
- Longer lead lengths are available
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Terminal and heat-shrink tube are optional

INTRODUCE

STR215

STR215 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Power Circuits(5A/10A)	Signal (2A)	Voltage(V)	OD(mm)	Length(mm)
STR215-S12	-	12	240	32.6	26.7
STR215-S24	-	24	240	32.6	41.7

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.

STR220 Series Overview

Description

A slip ring can be used in any electromechanical system that requires unrestrained, continuous rotation while transferring power and / or data from a stationary to a rotating structure. A slip ring is also called a rotary electrical interface, electrical collector, swivel, or a rotary joint.

The STR220 series slip ring with 20mm hole for installation, and compact 42mm outside diameter for minimal space applications.



Specifications

Item	
Operating Speed	Max.250 RPM*
Number of Circuits	12 wires
Lead Wire	AWG28# 250mm
Voltage	240V AC/DC
Operating Temperature	-20℃ to 60℃
Current Rating	Signal / 2A circuits
Noise	<0.01Ω
Torque	0.02N.m
Housing Material	AL Alloy
Protection Grade	IP51

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

Options

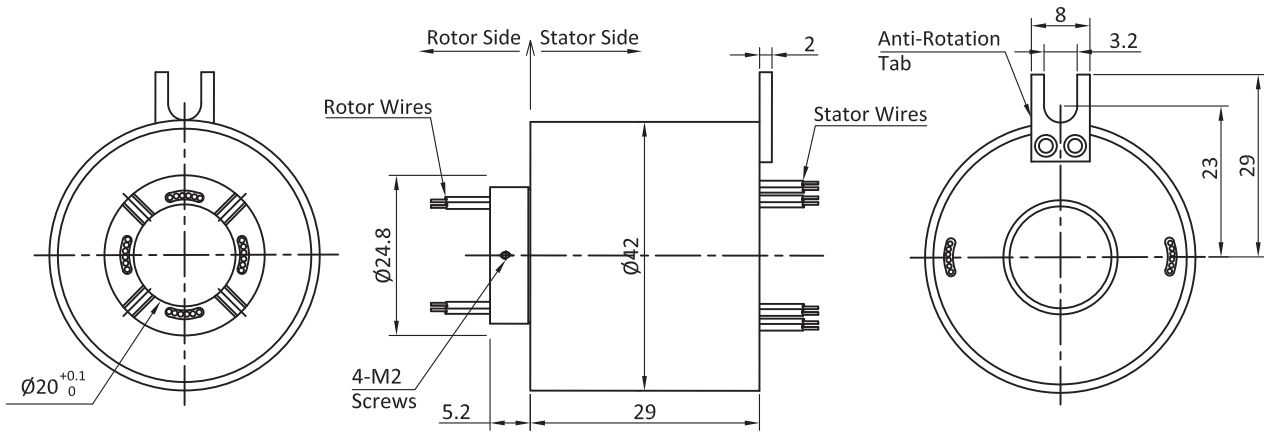
- Flange or non-flange
- Longer lead lengths are available
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Terminal and heat-shrink tube are optional

INTRODUCE

STR220

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STR220 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Power Circuits(5A/10A)	Signal (2A)	Voltage(V)	OD(mm)	Length(mm)
STR220-S12	-	12	240	42	29

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.

STR12 Series Overview

Description

The 1/2 inch through-bore provides routing space for hydraulics, pneumatics or for a concentric shaft mount.

The STR12 with 12.7mm through hole, 56mm OD, uses our unique fiber brush technology which offers several advantages over conventional slip ring contacts, including multiple points of contact per brush bundle, low noise, electrical and low contact wear rates. It can transmit signal(5A), 8A, multiple 8A current when 360° degree free rotating.

**Specifications**

Item	
Operating Speed	Max.600 RPM*
Number of Circuits	2~48 wires
Lead Wire	AWG22#, AWG18# Teflon, 300mm
Voltage	440V AC/DC
Operating Temperature	-40℃ to 80℃
Current Rating	Signal / 5A, 8A circuits
Noise	<0.01Ω
Torque	0.1N.m; +0.03N.m/6rings
Housing Material	Al alloy
Protection Grade	IP51

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

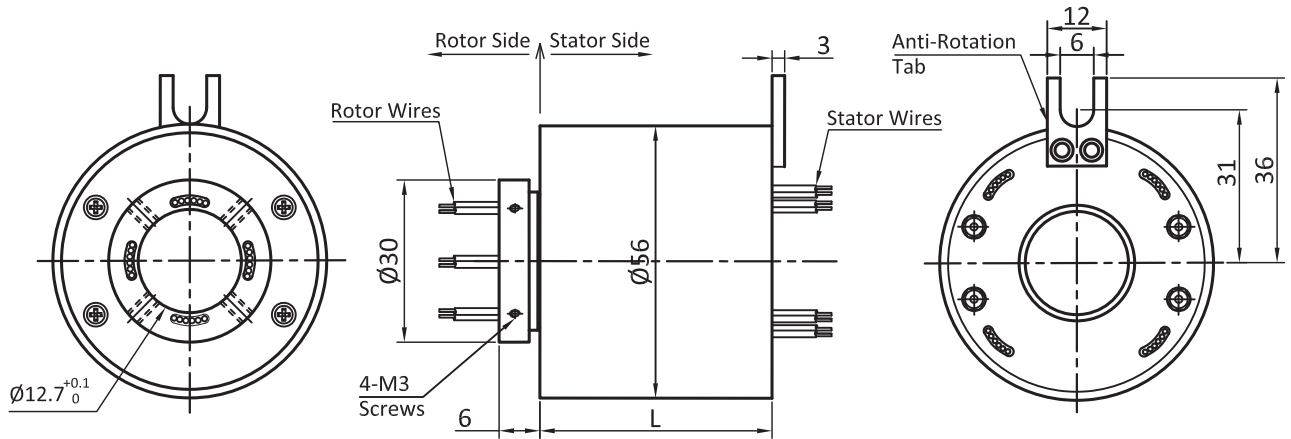
Options

- 75 O.D. flange with 4 mounting holes
- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

INTRODUCE

STR12

STR12 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters
2. Rotor and stator leads exit 4 places, 90° apart
3. Flange mounting is options

Part# List

Model#	Power(8A)	Signal or 5A	Length(mm)	Model#	Power(8A)	Signal or 5A	Length(mm)
STR12-P2	2	0	27	STR12-P6S12	6	12	74
STR12S2	0	2	27	STR12-P18	18	0	74
STR12-P3	3	0	30	STR12-S18	0	18	74
STR12-P2S2	2	2	33	STR12-P12S12	12	12	91.2
STR12-P4	4	0	33	STR12-P24	24	0	91.2
STR12-S6	0	6	39.2	STR12-S24	0	24	91.2
STR12-P6	6	0	39.2	STR12-S30	0	30	108.2
STR12-P12	12	0	57.2	STR12-S36	0	36	125.4
STR-S12	0	12	57.2	STR12-S48	0	48	156

Notes: Not all of the model are list in this table, if can not find suitable products, please contact us freely.

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	RED	Signal / AWG22# 8A / AWG18#	7	RED	Signal / AWG22# 8A / AWG18#
2	BLK		8	BLK	
3	BLU		9	BLU	
4	BRN		10	BRN	
5	WHT		11	WHT	
6	GRY		12	GRY	

Notes:

6 wires for 1 group color, from 7~12 circuits would repeat the same color.

STR25 Series Overview

Description

The 1 inch through-bore provides routing space for hydraulics, pneumatics or for a concentric shaft mount.

The STR25 with 25.4mm through hole, 86mm OD, uses our unique fiber brush technology which offers several advantages over conventional slip ring contacts, including multiple points of contact per brush bundle, low noise, electrical and low contact wear rates. It can transmit signal(2A), 10A, multiple 10A current when 360° degree free rotating.

**Specifications**

Item	
Operating Speed	Max.600 RPM*
Number of Circuits	2~56 wires
Lead Wire	AWG22#, AWG16# Teflon, 300mm
Voltage	440V AC/DC
Operating Temperature	-40℃ to 80℃
Current Rating	Signal / 5A, 10A circuits
Noise	<0.01Ω
Torque	0.1N.m; +0.03N.m/6rings
Housing Material	Al alloy
Protection Grade	IP51

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

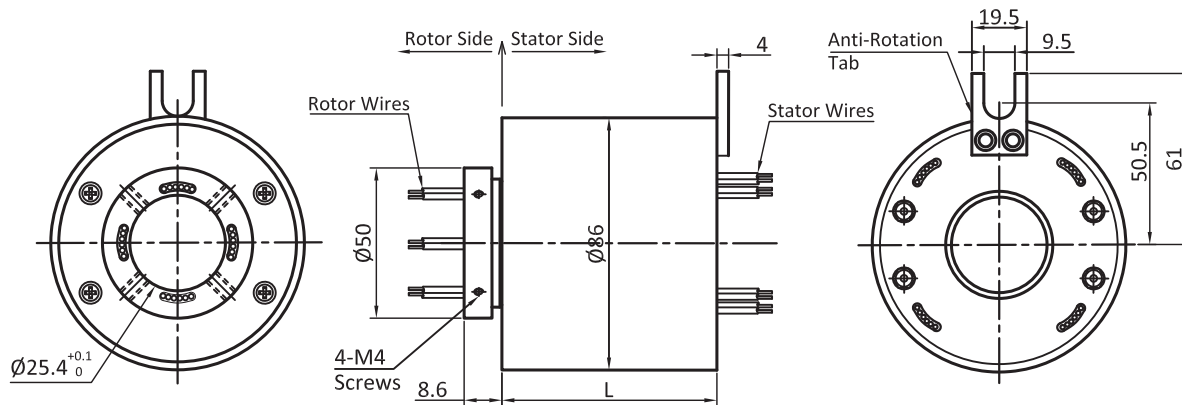
Options

- 110mm OD flange with 4 mounting holes
- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

INTRODUCE

STR25

STR25 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters
2. Rotor and stator leads exit 4 places, 90° apart
3. Flange mounting is options

Part# List

Model#	Power(10A)	Signal or 5A	Length(mm)	Model#	Power(10A)	Signal or 5A	Length(mm)
STR25-P2	2	0	30.2	STR25-S24	0	24	107.2
STR25-S2	0	2	30.2	STR25-P24	24	0	107.2
STR25-P3	3	0	33.7	STR25-P6S24	6	24	128.2
STR25-P2S2	2	2	37.2	STR25-P18S12	18	12	128.2
STR25-P4	4	0	37.2	STR25-P30	30	0	128.2
STR25-S6	0	6	44.2	STR25-S30	0	30	128.2
STR12-P6	6	0	44.2	STR25-S36	0	36	153.2
STR12-P12	12	0	65.2	STR25-P12S24	12	24	153.2
STR25-S12	0	12	65.2	STR25-P36	36	0	153.2
STR25-P2S10	2	10	65.2	STR25-S42	0	42	174.2
STR25-P4S8	4	8	65.2	STR25-P6S36	6	36	174.2
STR25-P6S6	6	6	65.2	STR25-S48	0	48	195.2
STR25-P6S12	6	12	86.2	STR25-P12S36	12	36	195.2
STR25-P18	18	0	86.2	STR25-S56	0	56	223.2
STR25-S18	0	18	86.2	STR25-P6S50	6	50	223.2
STR25-P10S8	10	8	86.2	STR25-P12S44	12	44	223.2
STR25-P06S18	6	18	107.2	STR26-P6S54	6	54	237.2
STR25-P12S12	12	12	107.2	STR25-S72	0	72	279.2

Notes: Not all of the model are list in this table, if can not find suitable products, please contact us freely.

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	RED	Signal / AWG22# 10A / AWG16#	7	RED	Signal / AWG22# 10A / AWG16#
2	BLK		8	BLK	
3	BLU		9	BLU	
4	BRN		10	BRN	
5	WHT		11	WHT	
6	GRY		12	GRY	

Notes:

6 wires for 1 group color, from 7~12 circuits would repeat the same color.

STR30 Series Overview

Description

The through-bore provides routing space for hydraulics, pneumatics or for a concentric shaft mount.

The STR30 with 30mm through hole, 99mm OD, uses our unique fiber brush technology which offers several advantages over conventional slip ring contacts, including multiple points of contact per brush bundle, low noise, electrical and low contact wear rates. It can transmit signal(2A), 10A, multiple 10A current when 360° degree free rotating.

**Specifications**

Item	
Operating Speed	Max.500 RPM*
Number of Circuits	2~72 wires
Lead Wire	AWG22#, AWG16# Teflon, 300mm
Voltage	440V AC/DC
Operating Temperature	-40℃ to 80℃
Current Rating	Signal / 5A, 10A circuits
Noise	<0.01Ω
Torque	0.1N.m; +0.03N.m/6rings
Housing Material	Al alloy
Protection Grade	IP51

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

Options

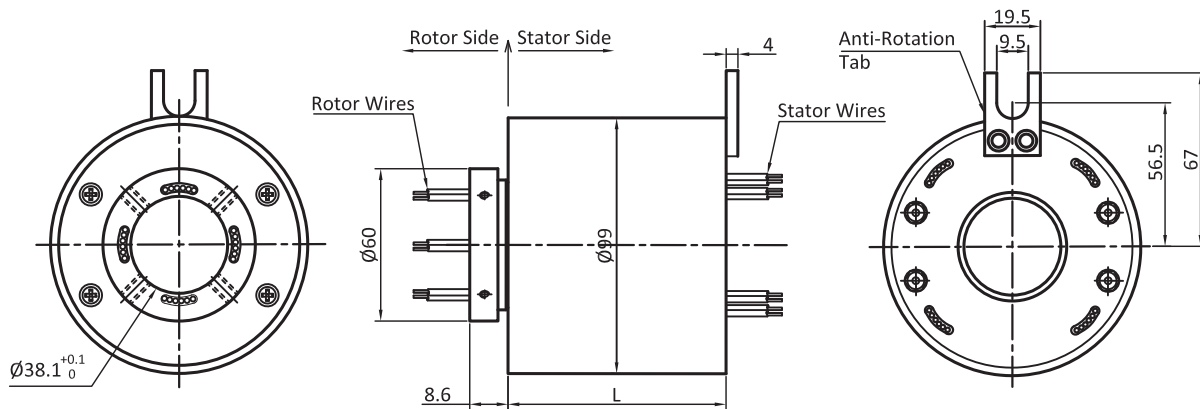
- 123mm OD flange with 4 mounting holes
- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

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STR30

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STR30 Series Dimensions

**Notes:**

1. Drawings not actual size, dimensions are in millimeters
2. Rotor and stator leads exit 4 places, 90° apart
3. Flange mounting is options

Part# List

Model#	Power(10A)	Signal or 5A	Length(mm)	Model#	Power(10A)	Signal or 5A	Length(mm)
STR30-P2	2	0	30.2	STR30-S24	0	24	107.2
STR30-S2	0	2	30.2	STR30-P24	24	0	107.2
STR30-P3	3	0	33.7	STR30-P6S24	6	24	128.2
STR30-P2S2	2	2	37.2	STR30-P18S12	18	12	128.2
STR30-P4	4	0	37.2	STR30-P30	30	0	128.2
STR30-S6	0	6	44.2	STR30-S30	0	30	128.2
STR30-P6	6	0	44.2	STR30-S36	0	36	153.2
STR30-P12	12	0	65.2	STR30-P12S24	12	24	153.2
STR30-S12	0	12	65.2	STR38-P36	36	0	153.2
STR30-P2S10	2	10	65.2	STR30-S42	0	42	174.2
STR30-P4S8	4	8	65.2	STR30-P6S36	6	36	174.2
STR30-P6S6	6	6	65.2	STR30-S48	0	48	195.2
STR30-P6S12	6	12	86.2	STR30-P12S36	12	36	195.2
STR30-P18	18	0	86.2	STR30-S56	0	56	223.2
STR30-S18	0	18	86.2	STR30-P6S50	6	50	223.2
STR30-P10S8	10	8	86.2	STR30-P12S44	12	44	223.2
STR30-P06S18	6	18	107.2	STR30-P6S54	6	54	237.2
STR30-P12S12	12	12	107.2	STR30-S72	0	72	279.2

Notes: Not all of the model are list in this table, if can not find suitable products, please contact us freely.

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	RED	Signal / AWG22# 10A / AWG16#	7	RED	Signal / AWG22# 10A / AWG16#
2	BLK		8	BLK	
3	BLU		9	BLU	
4	BRN		10	BRN	
5	WHT		11	WHT	
6	GRY		12	GRY	

Notes:

6 wires for 1 group color, from 7~12 circuits would repeat the same color.

STR38 Series Overview

Description

The 1 1/2 inch through-bore provides routing space for hydraulics, pneumatics or for a concentric shaft mount.

The STR38 with 38.1mm through hole, 99mm OD, uses our unique fiber brush technology which offers several advantages over conventional slip ring contacts, including multiple points of contact per brush bundle, low noise, electrical and low contact wear rates. It can transmit signal(2A), 10A, multiple 10A current when 360° degree free rotating.



Specifications

Item	
Operating Speed	Max.500 RPM*
Number of Circuits	2~72 wires
Lead Wire	AWG22#, AWG16# Teflon, 300mm
Voltage	440V AC/DC
Operating Temperature	-40℃ to 80℃
Current Rating	Signal / 5A, 10A circuits
Noise	<0.01Ω
Torque	0.1N.m; +0.03N.m/6rings
Housing Material	Al alloy
Protection Grade	IP51

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

Options

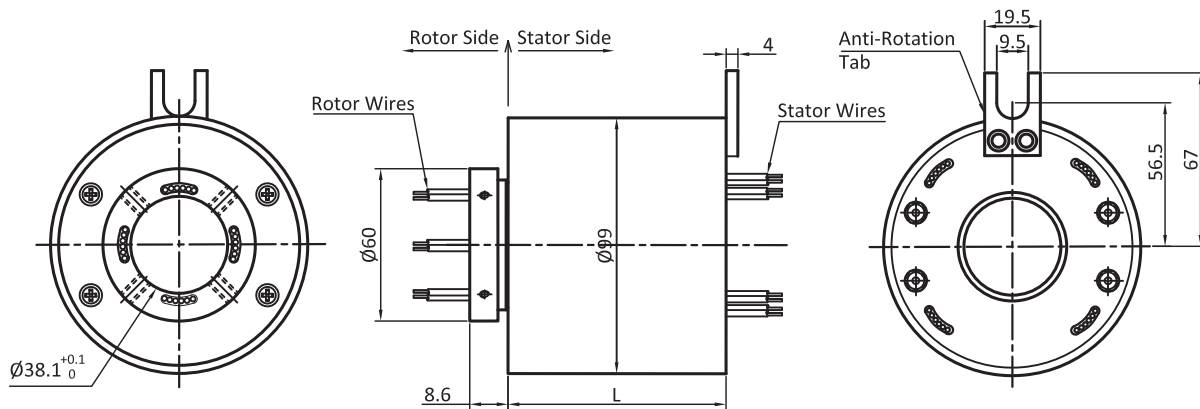
- 123mm OD flange with 4 mounting holes
- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

INTRODUCE

STR38

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STR38 Series Dimensions

**Notes:**

1. Drawings not actual size, dimensions are in millimeters
2. Rotor and stator leads exit 4 places, 90° apart
3. Flange mounting is options

Part# List

Model#	Power(10A)	Signal or 5A	Length(mm)	Model#	Power(10A)	Signal or 5A	Length(mm)
STR38-P2	2	0	30.2	STR38-S24	0	24	107.2
STR38-S2	0	2	30.2	STR38-P24	24	0	107.2
STR38-P3	3	0	33.7	STR38-P6S24	6	24	128.2
STR38-P2S2	2	2	37.2	STR38-P18S12	18	12	128.2
STR38-P4	4	0	37.2	STR38-P30	30	0	128.2
STR38-S6	0	6	44.2	STR38-S30	0	30	128.2
STR38-P6	6	0	44.2	STR38-S36	0	36	153.2
STR38-P12	12	0	65.2	STR38-P12S24	12	24	153.2
STR38-S12	0	12	65.2	STR38-P36	36	0	153.2
STR38-P2S10	2	10	65.2	STR38-S42	0	42	174.2
STR38-P4S8	4	8	65.2	STR38-P6S36	6	36	174.2
STR38-P6S6	6	6	65.2	STR38-S48	0	48	195.2
STR38-P6S12	6	12	86.2	STR38-P12S36	12	36	195.2
STR38-P18	18	0	86.2	STR38-S56	0	56	223.2
STR38-S18	0	18	86.2	STR38-P6S50	6	50	223.2
STR38-P10S8	10	8	86.2	STR38-P12S44	12	44	223.2
STR38-P06S18	6	18	107.2	STR38-P6S54	6	54	237.2
STR38-P12S12	12	12	107.2	STR38-S72	0	72	279.2

Notes: Not all of the model are list in this table, if can not find suitable products, please contact us freely.

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	RED	Signal / AWG22# 10A / AWG16#	7	RED	Signal / AWG22# 10A / AWG16#
2	BLK		8	BLK	
3	BLU		9	BLU	
4	BRN		10	BRN	
5	WHT		11	WHT	
6	GRY		12	GRY	

Notes:

6 wires for 1 group color, from 7~12 circuits would repeat the same color.

STR50 Series Overview

Description

The 2 inch through-bore provides routing space for hydraulics, pneumatics or for a concentric shaft mount.

The STR50 with 50mm through hole, 119mm OD, uses our unique fiber brush technology which offers several advantages over conventional slip ring contacts, including multiple points of contact per brush bundle, low noise, electrical and low contact wear rates. It can transmit signal(2A), 10A, multiple 10A current when 360° degree free rotating.

**Specifications**

Item	
Operating Speed	Max.500 RPM*
Number of Circuits	2~100 wires
Lead Wire	AWG22#, AWG16# Teflon, 300mm
Voltage	600V AC/DC
Operating Temperature	-40℃ to 80℃
Current Rating	Signal / 5A, 10A circuits
Noise	<0.01Ω
Torque	0.1N.m; +0.03N.m/6rings
Housing Material	Al alloy
Protection Grade	IP51

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

Options

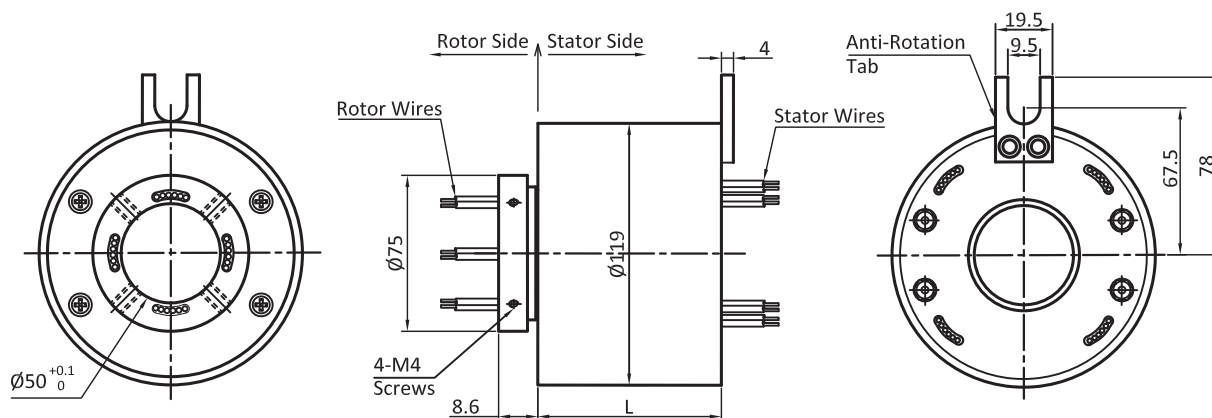
- 150mm OD flange with 4 mounting holes
- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

INTRODUCE

STR50

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STR50 Series Dimensions

**Notes:**

1. Drawings not actual size, dimensions are in millimeters
2. Rotor and stator leads exit 4 places, 90° apart
3. Flange mounting is options

Part# List

Model#	Power(10A)	Signal or 5A	Length(mm)	Model#	Power(10A)	Signal or 5A	Length(mm)
STR50-P2	2	0	37	STR50-S24	0	24	120.6
STR50-S2	0	2	37	STR50-P24	24	0	120.6
STR50-P3	3	0	40.8	STR50-P6S24	6	24	143.4
STR50-P2S2	2	2	44.6	STR50-P18S12	18	12	143.4
STR50-P4	4	0	44.6	STR50-P30	30	0	143.4
STR50-S6	0	6	52.2	STR50-S30	0	30	143.4
STR50-P6	6	0	52.2	STR50-S36	0	36	166.2
STR50-P12	12	0	75	STR50-P12S24	12	24	166.2
STR50-S12	0	12	75	STR50-P36	36	0	166.2
STR50-P2S10	2	10	75	STR50-S42	0	42	193
STR50-P4S8	4	8	75	STR50-P6S36	6	36	193
STR50-P6S6	6	6	75	STR50-S48	0	48	215.8
STR50-P6S12	6	12	97.8	STR50-P12S36	12	36	215.8
STR50-P18	18	0	97.8	STR50-S56	0	56	246.2
STR50-S18	0	18	97.8	STR50-P6S50	6	50	246.2
STR50-P10S8	10	8	97.8	STR50-P12S44	12	44	246.2
STR50-P06S18	6	18	120.6	STR50-P6S54	6	54	261.4
STR50-P12S12	12	12	120.6	STR50-S72	0	72	307

Notes: Not all of the part number are list in this table, if can not find suitable products, please contact us!

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	RED	Signal / AWG22# 10A / AWG16#	7	RED	Signal / AWG22# 10A / AWG16#
2	BLK		8	BLK	
3	BLU		9	BLU	
4	BRN		10	BRN	
5	WHT		11	WHT	
6	GRY		12	GRY	

Notes:

6 wires for 1 group color, from 7~12 circuits would repeat the same color.

STR60 Series Overview

Description

The through-bore provides routing space for hydraulics, pneumatics or for a concentric shaft mount.

The STR60 with 60mm through hole, 130mm OD, uses our unique fiber brush technology which offers several advantages over conventional slip ring contacts, including multiple points of contact per brush bundle, low noise, electrical and low contact wear rates. It can transmit signal(2A), 10A, multiple 10A current when 360° degree free rotating.

**Specifications**

Item	
Operating Speed	Max.300 RPM*
Number of Circuits	2~108 wires
Lead Wire	AWG22#, AWG16# Teflon, 300mm
Voltage	600V AC/DC
Operating Temperature	-40℃ to 80℃
Current Rating	Signal / 5A, 10A circuits
Noise	<0.01Ω
Torque	0.1N.m; +0.03N.m/6rings
Housing Material	Al alloy
Protection Grade	IP51

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

Options

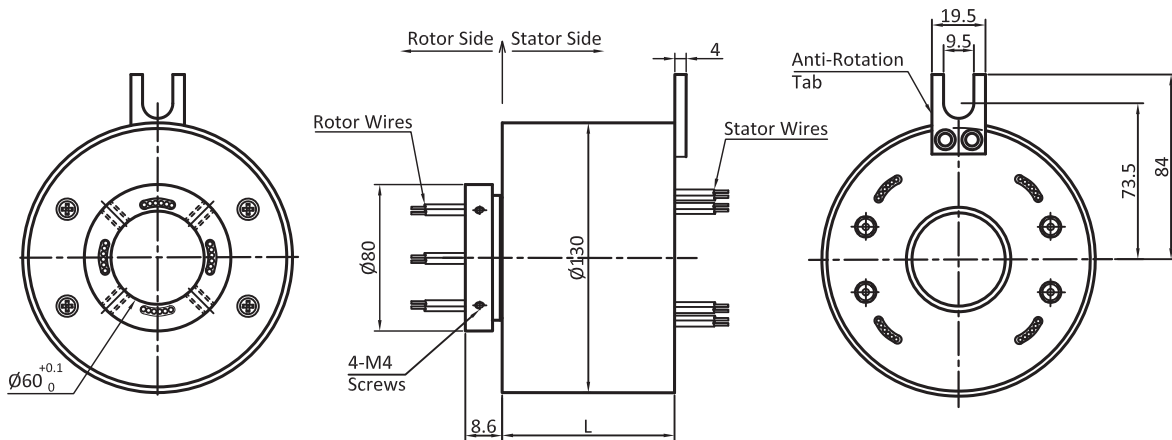
- Flange with 4 mounting holes
- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

INTRODUCE

STR60

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STR60 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters
2. Rotor and stator leads exit 4 places, 90° apart
3. Flange mounting is options

Part# List

Model#	Power(10A)	Signal or 5A	Length(mm)	Model#	Power(10A)	Signal or 5A	Length(mm)
STR60-P2	2	0	37	STR60-S24	0	24	120.6
STR60-S2	0	2	37	STR60-P24	24	0	120.6
STR60-P3	3	0	40.8	STR60-P6S24	6	24	143.4
STR60-P2S2	2	2	44.6	STR60-P18S12	18	12	143.4
STR60-P4	4	0	44.6	STR60-P30	30	0	143.4
STR60-S6	0	6	52.2	STR60-S30	0	30	143.4
STR60-P6	6	0	52.2	STR60-S36	0	36	166.2
STR60-P12	12	0	75	STR60-P12S24	12	24	166.2
STR60-S12	0	12	75	STR60-P36	36	0	166.2
STR60-P2S10	2	10	75	STR60-S42	0	42	193
STR60-P4S8	4	8	75	STR60-P6S36	6	36	193
STR60-P6S6	6	6	75	STR60-S48	0	48	215.8
STR60-P6S12	6	12	97.8	STR60-P12S36	12	36	215.8
STR60-P18	18	0	97.8	STR60-S56	0	56	246.2
STR60-S18	0	18	97.8	STR60-P6S50	6	50	246.2
STR60-P10S8	10	8	97.8	STR60-P12S44	12	44	246.2
STR60-P06S18	6	18	120.6	STR60-P6S54	6	54	261.4
STR60-P12S12	12	12	120.6	STR60-S72	0	72	307

Notes: Not all of the part number are list in this table, if can not find suitable products, please contact us!

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	RED	Signal / AWG22# 10A / AWG16#	7	RED	Signal / AWG22# 10A / AWG16#
2	BLK		8	BLK	
3	BLU		9	BLU	
4	BRN		10	BRN	
5	WHT		11	WHT	
6	GRY		12	GRY	

Notes:

6 wires for 1 group color, from 7~12 circuits would repeat the same color.

STR70 Series Overview

Description

The through-bore provides routing space for hydraulics, pneumatics or for a concentric shaft mount.

The STR70 with 70mm through hole, 158mm OD, uses our unique fiber brush technology which offers several advantages over conventional slip ring contacts, including multiple points of contact per brush bundle, low noise, electrical and low contact wear rates. It can transmit signal(2A), 10A, multiple 10A current when 360° degree free rotating.

**Specifications**

Item	
Operating Speed	Max.300 RPM*
Number of Circuits	2~108 wires
Lead Wire	AWG22#, AWG16# Teflon, 300mm
Voltage	600V AC/DC
Operating Temperature	-40℃ to 80℃
Current Rating	Signal / 5A, 10A circuits
Noise	<0.01Ω
Torque	0.1N.m; +0.03N.m/6rings
Housing Material	Al alloy
Protection Grade	IP51

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

Options

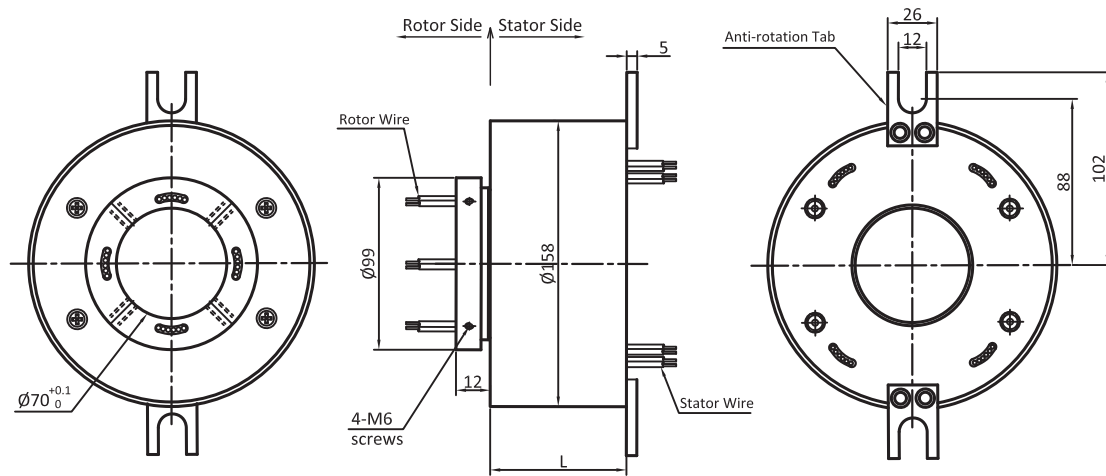
- Flange with 4 mounting holes
- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

INTRODUCE

STR70

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STR70 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters
2. Rotor and stator leads exit 4 places, 90° apart
3. Flange mounting is options

Part# List

Model#	Power(10A)	Signal or 5A	Length(mm)	Model#	Power(10A)	Signal or 5A	Length(mm)
STR70-P2	2	0	45	STR70-S24	0	24	128.6
STR70-S2	0	2	45	STR70-P24	24	0	128.6
STR70-P3	3	0	48.8	STR70-P6S24	6	24	151.4
STR70-P2S2	2	2	52.6	STR70-P18S12	18	12	151.4
STR70-P4	4	0	52.6	STR70-P30	30	0	151.4
STR70-S6	0	6	60.2	STR70-S30	0	30	151.4
STR70-P6	6	0	60.2	STR70-S36	0	36	174.2
STR70-P12	12	0	83	STR70-P12S24	12	24	174.2
STR70-S12	0	12	83	STR70-P36	36	0	174.2
STR70-P2S10	2	10	83	STR70-S42	0	42	201
STR70-P4S8	4	8	83	STR70-P6S36	6	36	201
STR70-P6S6	6	6	83	STR70-S48	0	48	223.8
STR70-P6S12	6	12	105.8	STR70-P12S36	12	36	223.8
STR70-P18	18	0	105.8	STR70-S56	0	56	254.2
STR70-S18	0	18	105.8	STR70-P6S50	6	50	254.2
STR70-P10S8	10	8	105.8	STR70-P12S44	12	44	254.2
STR70-P06S18	6	18	128.6	STR70-P6S54	6	54	269.4
STR70-P12S12	12	12	128.6	STR70-S72	0	72	315

Notes: Not all of the part number are list in this table, if can not find suitable products, please contact us!

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	RED	Signal / AWG22# 10A / AWG16#	7	RED	Signal / AWG22# 10A / AWG16#
2	BLK		8	BLK	
3	BLU		9	BLU	
4	BRN		10	BRN	
5	WHT		11	WHT	
6	GRY		12	GRY	

Notes:

6 wires for 1 group color, from 7~12 circuits would repeat the same color.

STR80 Series Overview

Description

The through-bore provides routing space for hydraulics, pneumatics or for a concentric shaft mount.

The STR80 with 80mm through hole, 158mm OD, uses our unique fiber brush technology which offers several advantages over conventional slip ring contacts, including multiple points of contact per brush bundle, low noise, electrical and low contact wear rates. It can transmit signal(2A), 10A, multiple 10A current when 360° degree free rotating.

**Specifications**

Item	
Operating Speed	Max.250 RPM*
Number of Circuits	2~108 wires
Lead Wire	AWG22#, AWG16# Teflon, 300mm
Voltage	600V AC/DC
Operating Temperature	-40℃ to 80℃
Current Rating	Signal / 5A, 10A circuits
Noise	<0.01Ω
Torque	0.1N.m; +0.03N.m/6rings
Housing Material	Al alloy
Protection Grade	IP51

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

Options

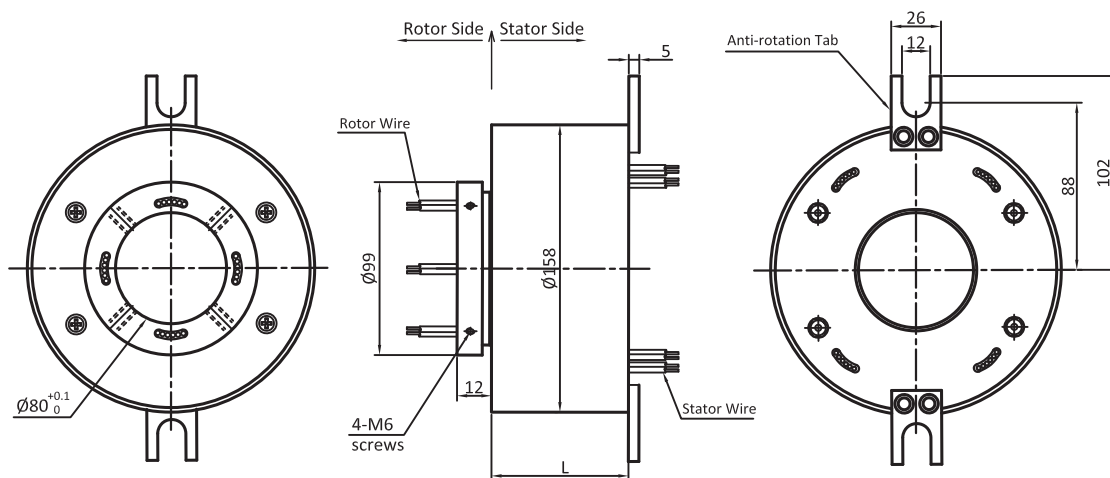
- Flange with 4 mounting holes
- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

INTRODUCE

STR80

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STR80 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters
2. Rotor and stator leads exit 4 places, 90° apart
3. Flange mounting is options

Part# List

Model#	Power(10A)	Signal or 5A	Length(mm)	Model#	Power(10A)	Signal or 5A	Length(mm)
STR80-P2	2	0	45	STR80-S24	0	24	128.6
STR80-S2	0	2	45	STR80-P24	24	0	128.6
STR80-P3	3	0	48.8	STR80-P6S24	6	24	151.4
STR80-P2S2	2	2	52.6	STR80-P18S12	18	12	151.4
STR80-P4	4	0	52.6	STR80-P30	30	0	151.4
STR80-S6	0	6	60.2	STR80-S30	0	30	151.4
STR80-P6	6	0	60.2	STR80-S36	0	36	174.2
STR80-P12	12	0	83	STR80-P12S24	12	24	174.2
STR80-S12	0	12	83	STR80-P36	36	0	174.2
STR80-P2S10	2	10	83	STR80-S42	0	42	201
STR80-P4S8	4	8	83	STR80-P6S36	6	36	201
STR80-P6S6	6	6	83	STR80-S48	0	48	223.8
STR80-P6S12	6	12	105.8	STR80-P12S36	12	36	223.8
STR80-P18	18	0	105.8	STR80-S56	0	56	254.2
STR80-S18	0	18	105.8	STR80-P6S50	6	50	254.2
STR80-P10S8	10	8	105.8	STR80-P12S44	12	44	254.2
STR80-P06S18	6	18	128.6	STR80-P6S54	6	54	269.4
STR80-P12S12	12	12	128.6	STR80-S72	0	72	315

Notes: Not all of the part number are list in this table, if can not find suitable products, please contact us!

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	RED	Signal / AWG22# 10A / AWG16#	7	RED	Signal / AWG22# 10A / AWG16#
2	BLK		8	BLK	
3	BLU		9	BLU	
4	BRN		10	BRN	
5	WHT		11	WHT	
6	GRY		12	GRY	

Notes:

6 wires for 1 group color, from 7~12 circuits would repeat the same color.

STR90 Series Overview

Description

The through-bore provides routing space for hydraulics, pneumatics or for a concentric shaft mount.

The STR90 with 90mm through hole, 185mm OD, uses our unique fiber brush technology which offers several advantages over conventional slip ring contacts, including multiple points of contact per brush bundle, low noise, electrical and low contact wear rates. It can transmit signal(2A), 10A, multiple 10A current when 360° degree free rotating.

**Specifications**

Item	
Operating Speed	Max.250 RPM*
Number of Circuits	2~108 wires
Lead Wire	AWG22#, AWG16# Teflon, 300mm
Voltage	600V AC/DC
Operating Temperature	-40℃ to 80℃
Current Rating	Signal / 5A, 10A circuits
Noise	<0.01Ω
Torque	0.1N.m; +0.03N.m/6rings
Housing Material	Al alloy
Protection Grade	IP51

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

Options

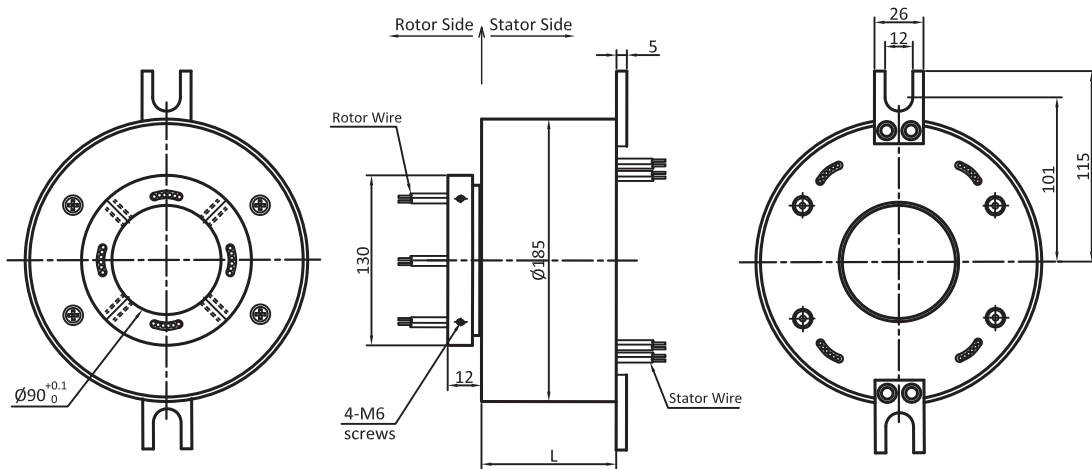
- Flange with 4 mounting holes
- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

INTRODUCE

STR90

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STR90 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters
2. Rotor and stator leads exit 4 places, 90° apart
3. Flange mounting is options

Part# List

Model#	Power(10A)	Signal or 5A	Length(mm)	Model#	Power(10A)	Signal or 5A	Length(mm)
STR90-P2	2	0	51	STR90-S24	0	24	139
STR90-S2	0	2	51	STR90-P24	24	0	139
STR90-P3	3	0	55	STR90-P6S24	6	24	163
STR90-P2S2	2	2	59	STR90-P18S12	18	12	163
STR90-P4	4	0	59	STR90-P30	30	0	163
STR90-S6	0	6	67	STR90-S30	0	30	163
STR90-P6	6	0	67	STR90-S36	0	36	192
STR90-P12	12	0	91	STR90-P12S24	12	24	192
STR90-S12	0	12	91	STR90-P36	36	0	192
STR90-P2S10	2	10	91	STR90-S42	0	42	216
STR90-P4S8	4	8	91	STR90-P6S36	6	36	216
STR90-P6S6	6	6	91	STR90-S48	0	48	240
STR90-P6S12	6	12	115	STR90-P12S36	12	36	240
STR90-P18	18	0	115	STR90-S56	0	56	272
STR90-S18	0	18	115	STR90-P6S50	6	50	272
STR90-P10S8	10	8	115	STR90-P12S44	12	44	272
STR90-P06S18	6	18	139	STR90-P6S54	6	54	286
STR90-P12S12	12	12	139	STR90-S72	0	72	334

Notes: Not all of the part number are list in this table, if can not find suitable products, please contact us!

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	RED	Signal / AWG22# 10A / AWG16#	7	RED	Signal / AWG22# 10A / AWG16#
2	BLK		8	BLK	
3	BLU		9	BLU	
4	BRN		10	BRN	
5	WHT		11	WHT	
6	GRY		12	GRY	

Notes:

6 wires for 1 group color, from 7~12 circuits would repeat the same color.

STR100 Series Overview

Description

The through-bore provides routing space for hydraulics, pneumatics or for a concentric shaft mount.

The STR90 with 90mm through hole, 185mm OD, uses our unique fiber brush technology which offers several advantages over conventional slip ring contacts, including multiple points of contact per brush bundle, low noise, electrical and low contact wear rates. It can transmit signal(2A), 10A, multiple 10A current when 360° degree free rotating.



Specifications

Item	
Operating Speed	Max.250 RPM*
Number of Circuits	2~108 wires
Lead Wire	AWG22#, AWG16# Teflon, 300mm
Voltage	600V AC/DC
Operating Temperature	-40℃ to 80℃
Current Rating	Signal / 5A, 10A circuits
Noise	<0.01Ω
Torque	0.1N.m; +0.03N.m/6rings
Housing Material	Al alloy
Protection Grade	IP51

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

Options

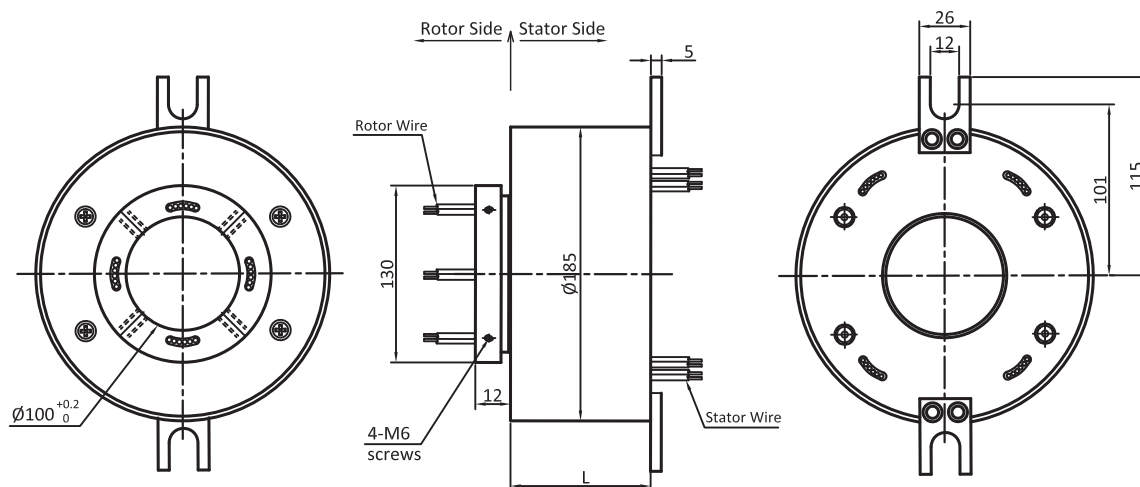
- Flange with 4 mounting holes
- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

INTRODUCE

STR100

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STR100 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters
2. Rotor and stator leads exit 4 places, 90° apart
3. Flange mounting is options

Part# List

Model#	Power(10A)	Signal or 5A	Length(mm)	Model#	Power(10A)	Signal or 5A	Length(mm)
STR100-P2	2	0	51	STR100-S24	0	24	139
STR100-S2	0	2	51	STR100-P24	24	0	139
STR100-P3	3	0	55	STR100-P6S24	6	24	163
STR100-P2S2	2	2	59	STR100-P18S12	18	12	163
STR100-P4	4	0	59	STR100-P30	30	0	163
STR100-S6	0	6	67	STR100-S30	0	30	163
STR100-P6	6	0	67	STR100-S36	0	36	192
STR100-P12	12	0	91	STR100-P12S24	12	24	192
STR100-S12	0	12	91	STR100-P36	36	0	192
STR100-P2S10	2	10	91	STR100-S42	0	42	216
STR100-P4S8	4	8	91	STR100-P6S36	6	36	216
STR100-P6S6	6	6	91	STR100-S48	0	48	240
STR100-P6S12	6	12	115	STR100-P12S36	12	36	240
STR100-P18	18	0	115	STR100-S56	0	56	272
STR100-S18	0	18	115	STR100-P6S50	6	50	272
STR100-P10S8	10	8	115	STR100-P12S44	12	44	272
STR100-P06S18	6	18	139	STR100-P6S54	6	54	286
STR100-P12S12	12	12	139	STR100-S72	0	72	334

Notes: Not all of the part number are list in this table, if can not find suitable products, please contact us!

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	RED	Signal / AWG22# 10A / AWG16#	1	RED	Signal / AWG22# 10A / AWG16#
2	BLK		2	BLK	
3	BLU		3	BLU	
4	BRN		4	BRN	
5	WHT		5	WHT	
6	GRY		6	GRY	

Notes:

6 wires for 1 group color, from 7~12 circuits would repeat the same color.

STR120 Series Overview

Description

The through-bore provides routing space for hydraulics, pneumatics or for a concentric shaft mount.

The STR120 with 120mm through hole, 215mm OD, uses our unique fiber brush technology which offers several advantages over conventional slip ring contacts, including multiple points of contact per brush bundle, low noise, electrical and low contact wear rates. It can transmit signal(2A), 10A, multiple 10A current when 360° degree free rotating.

**Specifications**

Item	
Operating Speed	Max. 150 RPM*
Number of Circuits	2~120 wires
Lead Wire	AWG22#, AWG16# Teflon, 300mm
Voltage	600V AC/DC
Operating Temperature	-40℃ to 80℃
Current Rating	Signal / 5A, 10A circuits
Noise	<0.01Ω
Torque	0.1N.m; +0.03N.m/6rings
Housing Material	Al alloy
Protection Grade	IP51

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

Options

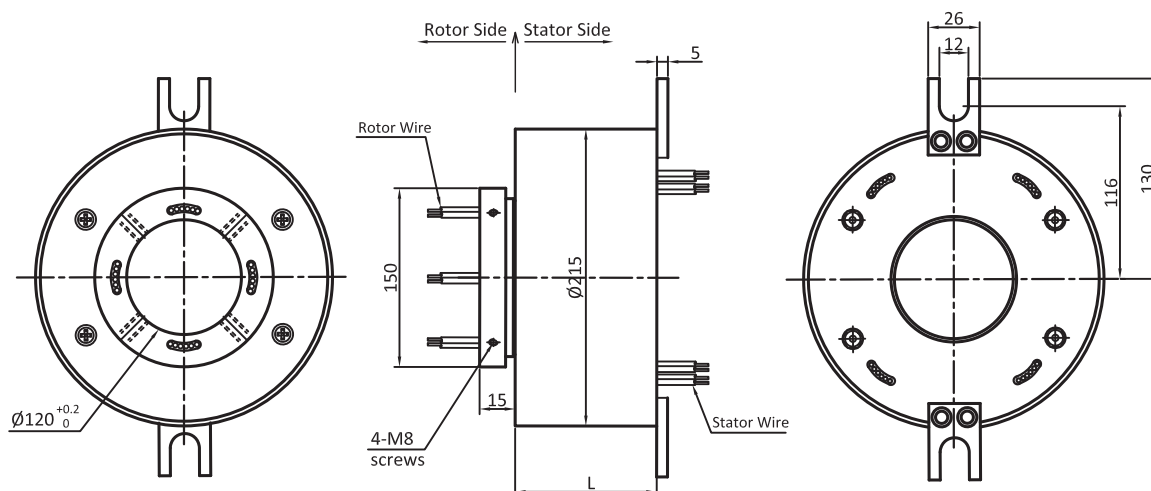
- Flange with 4 mounting holes
- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

INTRODUCE

STR120

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STR120 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters
2. Rotor and stator leads exit 4 places, 90° apart
3. Flange mounting is options

Part# List

Model#	Power(10A)	Signal or 5A	Length(mm)	Model#	Power(10A)	Signal or 5A	Length(mm)
STR120-P2	2	0	57	STR120-S24	0	24	167
STR120-S2	0	2	57	STR120-P24	24	0	167
STR120-P3	3	0	62	STR120-P6S24	6	24	197
STR120-P2S2	2	2	67	STR120-P18S12	18	12	197
STR120-P4	4	0	67	STR120-P30	30	0	197
STR120-S6	0	6	77	STR120-S30	0	30	197
STR120-P6	6	0	77	STR120-S36	0	36	232
STR120-P12	12	0	107	STR120-P12S24	12	24	232
STR120-S12	0	12	107	STR120-P36	36	0	232
STR120-P2S10	2	10	107	STR120-S42	0	42	262
STR120-P4S8	4	8	107	STR120-P6S36	6	36	262
STR120-P6S6	6	6	107	STR120-S48	0	48	292
STR120-P6S12	6	12	137	STR120-P12S36	12	36	292
STR120-P18	18	0	137	STR120-S56	0	56	332
STR120-S18	0	18	137	STR120-P6S50	6	50	332
STR120-P10S8	10	8	137	STR120-P12S44	12	44	332
STR120-P06S18	6	18	167	STR120-P6S54	6	54	362
STR120-P12S12	12	12	167	STR120-S72	0	72	422

Notes: Not all of the part number are list in this table, if can not find suitable products, please contact us!

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	RED	Signal / AWG22# 10A / AWG16#	7	RED	Signal / AWG22# 10A / AWG16#
2	BLK		8	BLK	
3	BLU		9	BLU	
4	BRN		10	BRN	
5	WHT		11	WHT	
6	GRY		12	GRY	

Notes:

6 wires for 1 group color, from 7~12 circuits would repeat the same color.

INTRODUCE

STR150

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STR150 Series Overview

Description

The through-bore provides routing space for hydraulics, pneumatics or for a concentric shaft mount.

The STR150 with 150mm through hole, 248mm OD, uses our unique fiber brush technology which offers several advantages over conventional slip ring contacts, including multiple points of contact per brush bundle, low noise, electrical and low contact wear rates. It can transmit signal(2A), 10A, multiple 10A current when 360° degree free rotating.



Specifications

Item	
Operating Speed	Max. 150 RPM*
Number of Circuits	2~120 wires
Lead Wire	AWG22#, AWG16# Teflon, 300mm
Voltage	600V AC/DC
Operating Temperature	-40℃ to 80℃
Current Rating	Signal / 5A, 10A circuits
Noise	<0.01Ω
Torque	0.1N.m; +0.03N.m/6rings
Housing Material	Al alloy
Protection Grade	IP51

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

Options

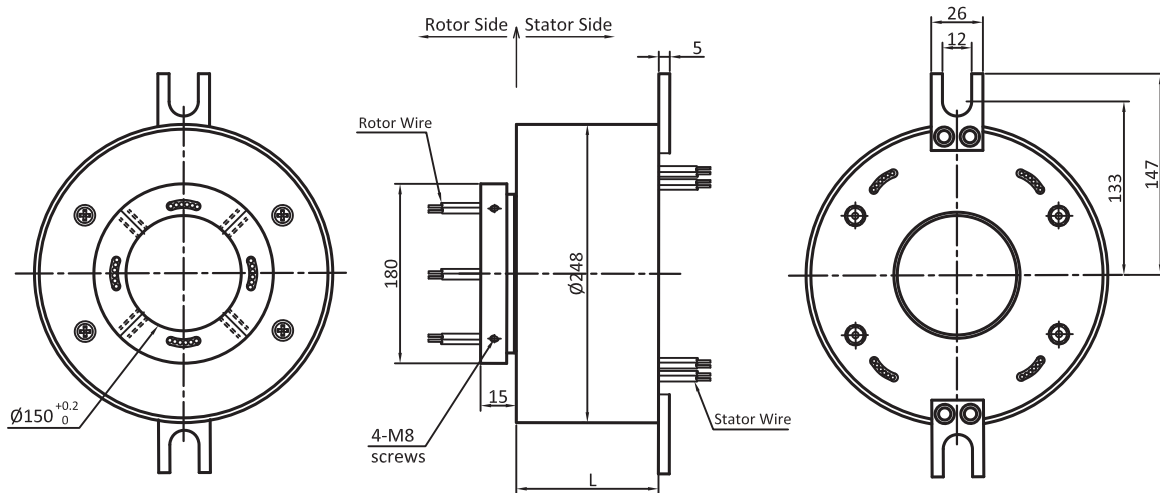
- Flange with 4 mounting holes
- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

INTRODUCE

STR150

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STR150 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters
2. Rotor and stator leads exit 4 places, 90° apart
3. Flange mounting is options

Part# List

Model#	Power(10A)	Signal or 5A	Length(mm)	Model#	Power(10A)	Signal or 5A	Length(mm)
STR150-P2	2	0	67	STR150-S24	0	24	177
STR150-S2	0	2	67	STR150-P24	24	0	177
STR150-P3	3	0	72	STR150-P6S24	6	24	207
STR150-P2S2	2	2	77	STR150-P18S12	18	12	207
STR150-P4	4	0	77	STR150-P30	30	0	207
STR150-S6	0	6	87	STR150-S30	0	30	207
STR150-P6	6	0	87	STR150-S36	0	36	242
STR150-P12	12	0	117	STR150-P12S24	12	24	242
STR150-S12	0	12	117	STR150-P36	36	0	242
STR150-P2S10	2	10	117	STR150-S42	0	42	272
STR150-P4S8	4	8	117	STR150-P6S36	6	36	272
STR150-P6S6	6	6	117	STR150-S48	0	48	302
STR150-P6S12	6	12	147	STR150-P12S36	12	36	302
STR150-P18	18	0	147	STR150-S56	0	56	342
STR150-S18	0	18	147	STR150-P6S50	6	50	342
STR150-P10S8	10	8	147	STR150-P12S44	12	44	342
STR150-P06S18	6	18	177	STR150-P6S54	6	54	372
STR120-P12S12	12	12	177	STR150-S72	0	72	432

Notes: Not all of the part number are list in this table, if can not find suitable products, please contact us!

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	RED	Signal / AWG22# 10A / AWG16#	7	RED	Signal / AWG22# 10A / AWG16#
2	BLK		8	BLK	
3	BLU		9	BLU	
4	BRN		10	BRN	
5	WHT		11	WHT	
6	GRY		12	GRY	

Notes:

6 wires for 1 group color, from 7~12 circuits would repeat the same color.

STR180 Series Overview

Description

The through-bore provides routing space for hydraulics, pneumatics or for a concentric shaft mount.

The STR180 with 180mm through hole, 298mm OD, uses our unique fiber brush technology which offers several advantages over conventional slip ring contacts, including multiple points of contact per brush bundle, low noise, electrical and low contact wear rates. It can transmit signal(2A), 10A, multiple 10A current when 360° degree free rotating.

**Specifications**

Item	
Operating Speed	Max. 150 RPM*
Number of Circuits	2~120 wires
Lead Wire	AWG22#, AWG16# Teflon, 300mm
Voltage	600V AC/DC
Operating Temperature	-40℃ to 80℃
Current Rating	Signal / 5A, 10A circuits
Noise	<0.01Ω
Torque	0.1N.m; +0.03N.m/6rings
Housing Material	Al alloy
Protection Grade	IP51

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

Options

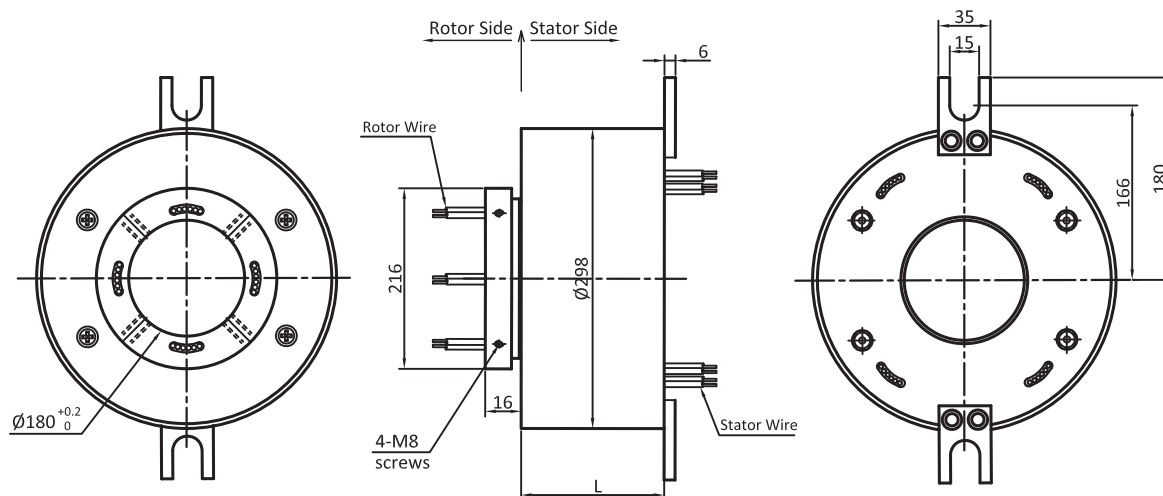
- Flange with 4 mounting holes
- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

INTRODUCE

STR180

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STR180 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters
2. Rotor and stator leads exit 4 places, 90° apart
3. Flange mounting is options

Part# List

Model#	Power(10A)	Signal or 5A	Length(mm)	Model#	Power(10A)	Signal or 5A	Length(mm)
STR180-P2	2	0	75	STR180-S24	0	24	207
STR180-S2	0	2	75	STR180-P24	24	0	207
STR180-P3	3	0	81	STR180-P6S24	6	24	243
STR180-P2S2	2	2	87	STR180-P18S12	18	12	243
STR180-P4	4	0	87	STR180-P30	30	0	243
STR180-S6	0	6	99	STR180-S30	0	30	243
STR180-P6	6	0	99	STR180-S36	0	36	285
STR180-P12	12	0	135	STR180-P12S24	12	24	285
STR180-S12	0	12	135	STR180-P36	36	0	285
STR180-P2S10	2	10	135	STR180-S42	0	42	321
STR180-P4S8	4	8	135	STR180-P6S36	6	36	321
STR180-P6S6	6	6	135	STR180-S48	0	48	357
STR180-P6S12	6	12	171	STR180-P12S36	12	36	357
STR180-P18	18	0	171	STR180-S56	0	56	405
STR180-S18	0	18	171	STR180-P6S50	6	50	405
STR180-P10S8	10	8	171	STR180-P12S44	12	44	405
STR180-P06S18	6	18	207	STR180-P6S54	6	54	429
STR180-P12S12	12	12	207	STR180-S72	0	72	501

Notes: Not all of the part number are list in this table, if can not find suitable products, please contact us!

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	RED	Signal / AWG22# 10A / AWG16#	7	RED	Signal / AWG22# 10A / AWG16#
2	BLK		8	BLK	
3	BLU		9	BLU	
4	BRN		10	BRN	
5	WHT		11	WHT	
6	GRY		12	GRY	

Notes:

6 wires for 1 group color, from 7~12 circuits would repeat the same color.

MOS Series Capsule Slip Ring

1

The capsule slip rings are the ideal solution for signal and data transmission under even the most demanding conditions. Wherever space and or weight are restricted, these products can push the limits of physical possibility thanks to special manufacturing processes.

Typical application include CCTV security camera, point of purchase display, Medical equipment, automation flow line etc.



Features:

- Continuous 360° rotation of signal or data
- Transmission of power, signals, video signals etc
- Gold-on-gold contact
- No require lubrication
- High speed, cameras/security industry used, also widely used revolving stage of lights
- Circuits combination is available (video, control, sensor, power, Ethernet and so on)

MOS SERIES MODEL#

Model#	ID(mm)	OD(mm)	Current(A)	Voltage(V AC/DC)	Number Of Circuits
MOS05	—	5	1	220	4~12
MOS06	—	6	1	220	4~12
MOS08	—	8.5	1	220	4~12
MOS12	—	12.5	1.5	240	4~18
MOS15	—	15.5	2	240	24
MOS22	—	22	2	240	6~36
MOS25	—	25.4	2	240	56
MOS30	—	30	2	240	54

MOS05 Series Overview

Description

MOS05 was a standard miniature slip ring, diameter 6mm, length can be 11.4mm, compact design with gold contact, can top to 8 circuits, high performance color lead wire. Perfect for transfer precision signal, low current. Small torque, low noise and loss, non-maintenance.



Features

- 4, 6, 8 circuit models
- Gold-on-gold contacts
- Flexible, color-coded, silver-plated, Teflon® insulated lead wires
- Transfers analog and digital signals

Typical Applications

- CCTV pan / tilt camera mounts
- Electrical test equipment
- Manufacturing and process control equipment
- Exhibit / display equipment
- UAV

Specifications

Item	
Operating Speed	Max.150 RPM*
Number of Circuits	4~8 wires
Lead Wire	AWG30# Teflon, 300mm
Voltage	240V AC/DC
Operating Temperature	-20℃ to 60℃
Current Rating	Signal / 1A circuits
Noise	<0.01Ω
Torque	0.02N.m
Housing Material	Plastic
Protection Grade	IP51

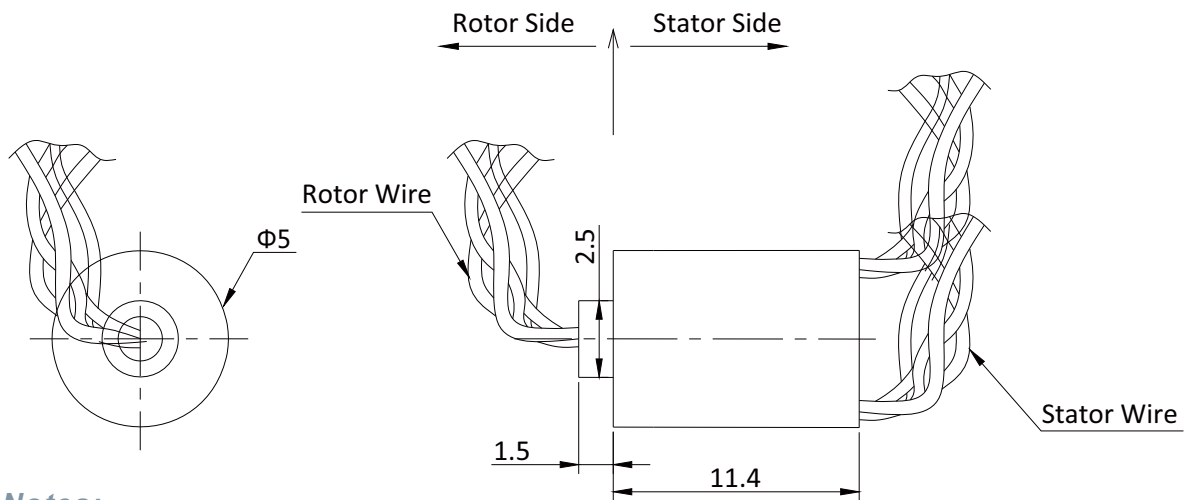
* Please note that the operational life of the unit is dependent upon rotational speed, environment and temperature

INTRODUCE

MOS05

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MOS05 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Power Circuits(5A/10A)	Signal (1A)	Voltage(V)	OD(mm)	Length(mm)
MOS05-S04	-	4	240	5	11.4
MOS05-S06	-	6	240	5	11.4
MOS05-S08	-	8	240	5	11.4

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	BLK	Signal / 1A, AWG30#	7	BLU	Signal / 1A, AWG30#
2	BRN		8	VIO	
3	RED		9	GRY	
4	ORN		10	WHT	
5	YEL		11	PINK	
6	GRN		12	SOFT-BLU	

MOS06 Series Overview

Description

MOS06 was a standard miniature slip ring, diameter 6mm, length can be 11.4mm, compact design with gold contact, can top to 8 circuits, high performance color lead wire. Perfect for transfer precision signal, low current. Small torque, low noise and loss, non-maintenance.



Features

- 4, 6, 8 circuit models
- Gold-on-gold contacts
- Flexible, color-coded, silver-plated, Teflon® insulated lead wires
- Transfers analog and digital signals

Typical Applications

- CCTV pan / tilt camera mounts
- Electrical test equipment
- Manufacturing and process control equipment
- Exhibit / display equipment
- UAV

Specifications

Item	
Operating Speed	Max.150 RPM*
Number of Circuits	4~8 wires
Lead Wire	AWG30# Teflon, 300mm
Voltage	240V AC/DC
Operating Temperature	-20℃ to 60℃
Current Rating	Signal / 1A circuits
Noise	<0.01Ω
Torque	0.02N.m
Housing Material	Plastic
Protection Grade	IP51

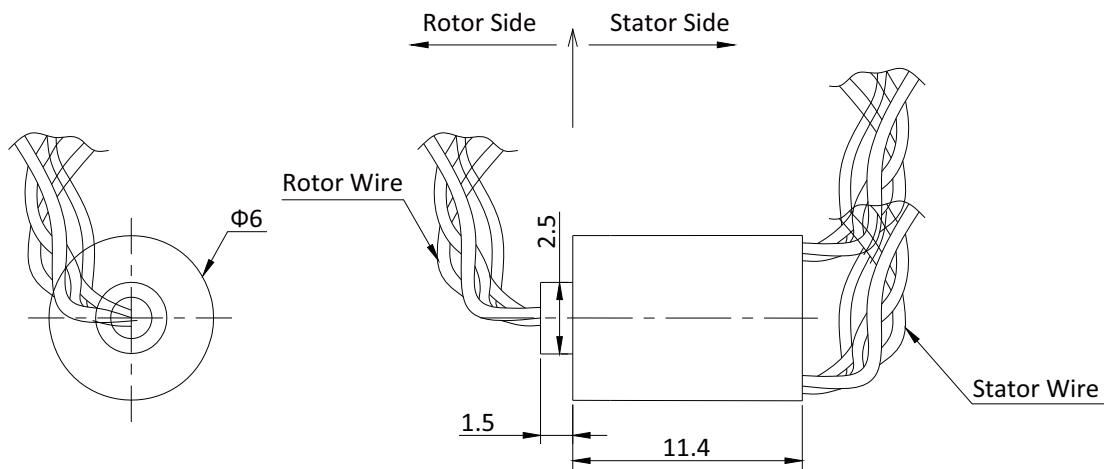
* Please note that the operational life of the unit is dependent upon rotational speed, environment and temperature

INTRODUCE

MOS06

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MOS06 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Power Circuits(5A/10A)	Signal (1A)	Voltage(V)	OD(mm)	Length(mm)
MOS06-S04	-	4	240	6	11.4
MOS06-S06	-	6	240	6	11.4
MOS06-S08	-	8	240	6	11.4

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	BLK	Signal / 1A, AWG30#	7	BLU	Signal / 1A, AWG30#
2	BRN		8	VIO	
3	RED		9	GRY	
4	ORN		10	WHT	
5	YEL		11	PINK	
6	GRN		12	SOFT-BLU	

MOS08 Series Overview

Description

MOS08 was a standard miniature slip ring, diameter 8.5mm, length can be from 8.9mm to 14.5mm, compact design with gold contact, can top to 12 circuits, high performance color lead wire. Perfect for transfer precision signal, low current. Small torque, low noise and loss, non-maintenance.



Features

- 4, 6, 8, 12 circuit models
- Gold-on-gold contacts
- Flexible, color-coded, silver-plated, Teflon® insulated lead wires
- Transfers analog and digital signals

Typical Applications

- CCTV pan / tilt camera mounts
- Electrical test equipment
- Manufacturing and process control equipment
- Exhibit / display equipment
- Medical equipment

Specifications

Item	
Operating Speed	Max. 150 RPM*
Number of Circuits	4~12 wires
Lead Wire	AWG30# Teflon, 300mm
Voltage	240V AC/DC
Operating Temperature	-20℃ to 60℃
Current Rating	Signal / 1A circuits
Noise	<0.01Ω
Torque	0.02N.m
Housing Material	Plastic
Protection Grade	IP51

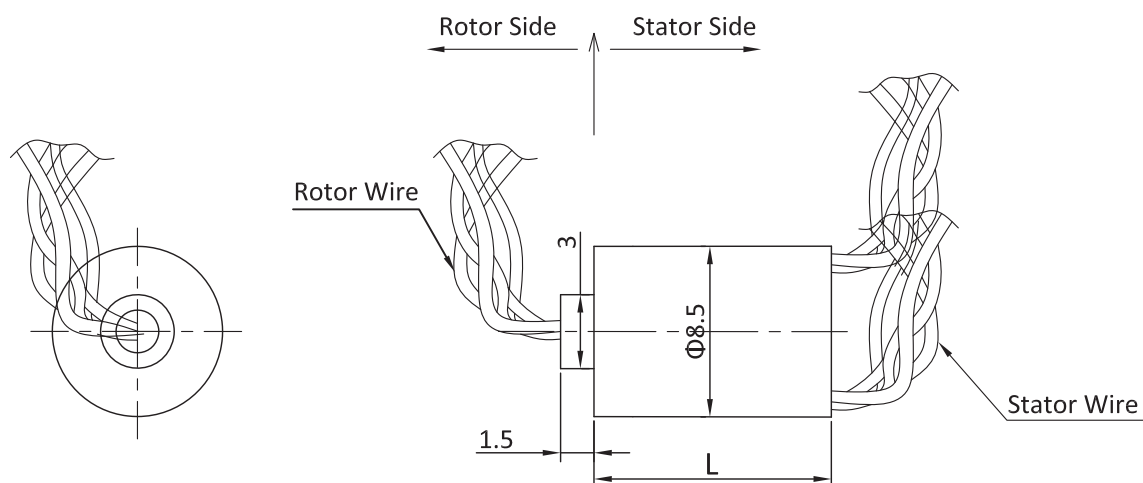
* Please note that the operational life of the unit is dependent upon rotational speed, environment and temperature

INTRODUCE

MOS08

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MOS08 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Power Circuits(5A/10A)	Signal (1A)	Voltage(V)	OD(mm)	Length(mm)
MOS08-04	-	4	240	8.5	8.9
MOS08-06	-	6	240	8.5	11.4
MOS08-08	-	8	240	8.5	11.4
MOS08-12	-	12	240	8.5	19.1

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	BLK	Signal / 1A, AWG30#	7	BLU	Signal / 1A, AWG30#
2	BRN		8	VIO	
3	RED		9	GRY	
4	ORN		10	WHT	
5	YEL		11	PINK	
6	GRN		12	SOFT-BLU	

MOS12 Series Overview

Description

MOS12 was a standard capsule slip ring, diameter 12.5mm, length can be from 15mm to 24mm, compact design with gold contact, can top to 18 circuits, high performance color lead wire. Perfect for transfer precision signal, low current. Small torque, low noise and loss, non-maintenance.



Features

- 6, 12, 18 circuit models
- Gold-on-gold contacts
- Flexible, color-coded, silver-plated Teflon® insulated lead wires
- Transfers analog and digital signals

Typical Applications

- CCTV pan / tilt camera mounts
- Electrical test equipment
- Manufacturing and process control equipment
- Exhibit / display equipment
- Medical equipment

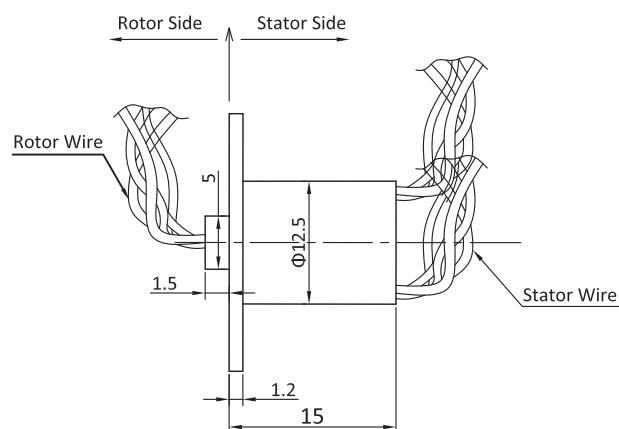
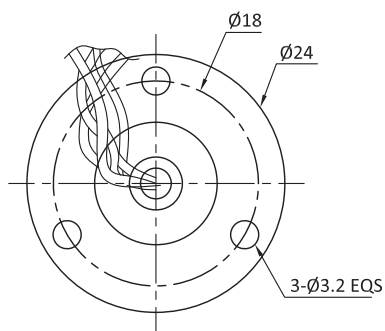
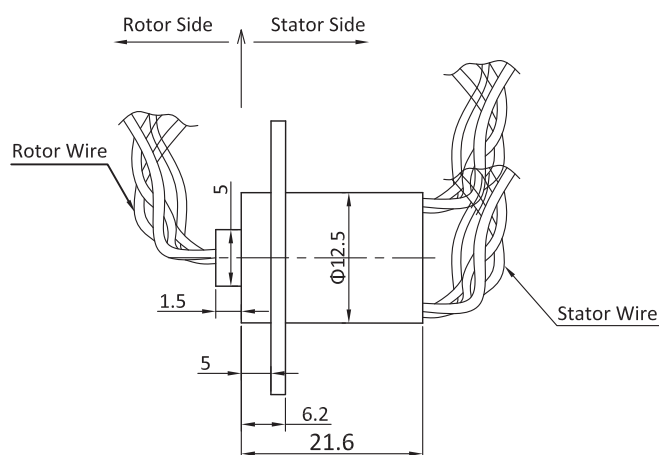
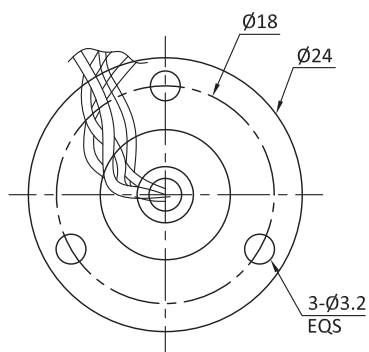
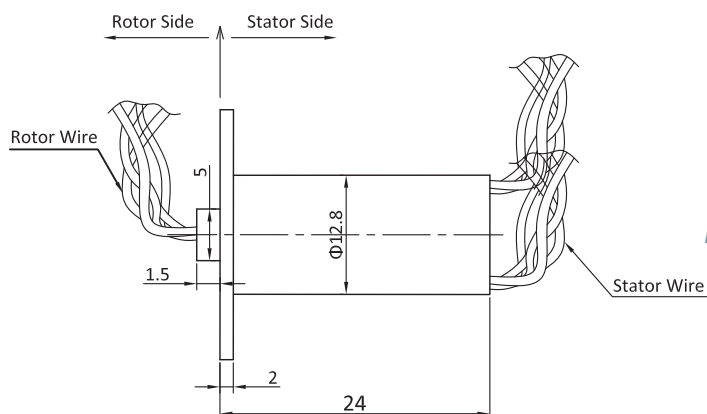
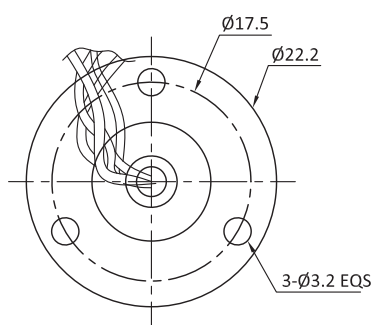
Specifications

Item	
Operating Speed	Max.250 RPM*
Number of Circuits	6, 12, 18 wires
Lead Wire	AWG30# Teflon, 300mm
Voltage	240V AC/DC
Operating Temperature	-20℃ to 60℃
Current Rating	Signal / 1.5A 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

- Flange or non-flange.
- Specified connectors and Heat-shrink tube.
- Longer lead lengths available.
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.

INTRODUCE**MOS12****MOS12 Series Dimensions****MOS12-06****MOS12-12****MOS12-18****Notes:**

1. Drawings not actual size, dimensions are in millimeters

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	BLK	Signal / 1.5A, AWG30#	7	BLU	Signal / 1.5A, AWG30#
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.

MOS15 Series Overview

Description

MOS15 was a standard capsule slip ring, diameter 15.5mm, length can be 39mm, compact design with gold contact, can top to 24 circuits, high performance color lead wire. Perfect for transfer precision signal, low current. Small torque, low noise and loss, non-maintenance.



Features

- 24 circuit models
- Gold-on-gold contacts
- Flexible, color-coded, silver-plated Teflon® insulated lead wires
- Transfers analog and digital signals

Typical Applications

- CCTV pan / tilt camera mounts
- Electrical test equipment
- Manufacturing and process control equipment
- Exhibit / display equipment
- Medical equipment

Specifications

Item	
Operating Speed	Max.250 RPM*
Number of Circuits	24 wires
Lead Wire	AWG30# Teflon, 300mm
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

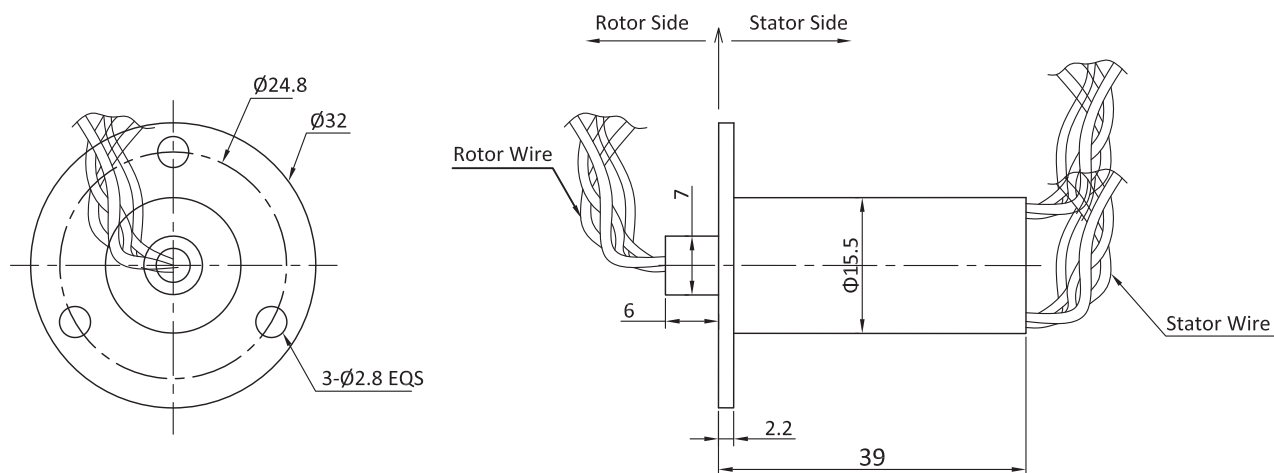
Options

- Optional flange mounting.
- Specified connectors and Heat-shrink tube.
- Longer lead lengths available.
- Ethernet, USB, HDMI data transmission are available.
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.

INTRODUCE

MOS15

MOS15 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Power Circuits(5A/10A)	Signal (2A)	Voltage(V)	OD(mm)	Length(mm)
MOS15-24	–	24	240	15.5	39

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.

MOS22 Series Overview

Description

MOS22 was a standard capsule slip ring, diameter 22mm, length can be from 19mm to 48.4mm, compact design with gold contact, can top to 36 circuits, high performance color lead wire. Perfect for transfer precision signal, low current. Small torque, low noise and loss, non-maintenance.



Features

- 6, 12, 18, 24, 36 circuit models
- Gold-on-gold contacts
- Flexible, color-coded, silver-plated Teflon® insulated lead wires
- Transfers analog and digital signals

Typical Applications

- CCTV pan / tilt camera mounts
- Electrical test equipment
- Manufacturing and process control equipment
- Exhibit / display equipment
- Medical equipment

Specifications

Item	
Operating Speed	Max.250 RPM*
Number of Circuits	2~36 wires
Lead Wire	AWG28#, AWG30# Teflon, 300mm
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

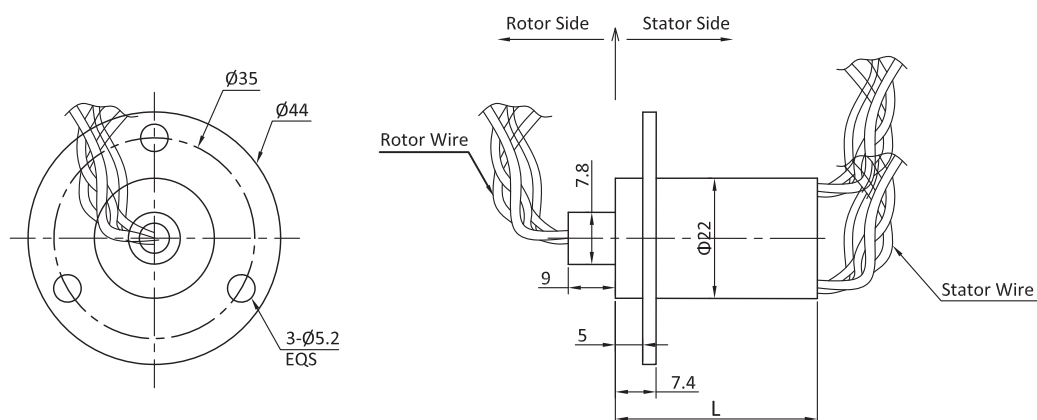
- Optional flange mounting.
- Specified connectors and Heat-shrink tube.
- Longer lead lengths available.
- Ethernet, USB, HDMI data transmission are available.
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.

INTRODUCE

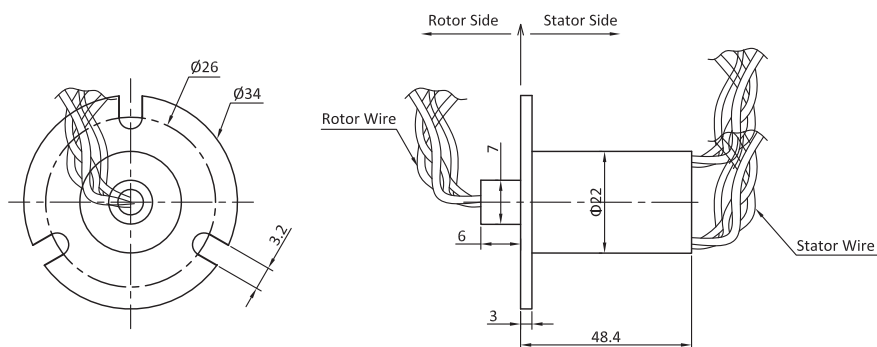
MOS22

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MOS22 Series Dimensions



MOS22-36



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Power Circuits(5A/10A)	Signal (2A)	Voltage(V)	OD(mm)	Length(mm)
MOS22-06	-	6	240	22	19
MOS22-08	-	8	240	22	26.4
MOS22-12	-	12	240	22	26.4
MOS22-18	-	18	240	22	35
MOS22-24	-	24	240	22	42.5
MOS22-36	-	36	240	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.

MOS25 Series Overview

Description

MOS25 was a standard capsule slip ring, diameter 25mm, length can be 85.7mm, compact design with gold contact, can top to 56 circuits, high performance color lead wire. Perfect for transfer precision signal, low current. Small torque, low noise and loss, non-maintenance.



Features

- 56 circuit models
- Gold-on-gold contacts
- Flexible, color-coded, silver-plated, Teflon® insulated lead wires
- Transfers analog and digital signals

Typical Application

- CCTV pan / tilt camera mounts
- Electrical test equipment
- Manufacturing and process control equipment
- Exhibit / display equipment
- Medical equipment

Specifications

Item	
Operating Speed	Max.250 RPM*
Number of Circuits	56 wires
Lead Wire	AWG28#, AWG30# Teflon, 300mm
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

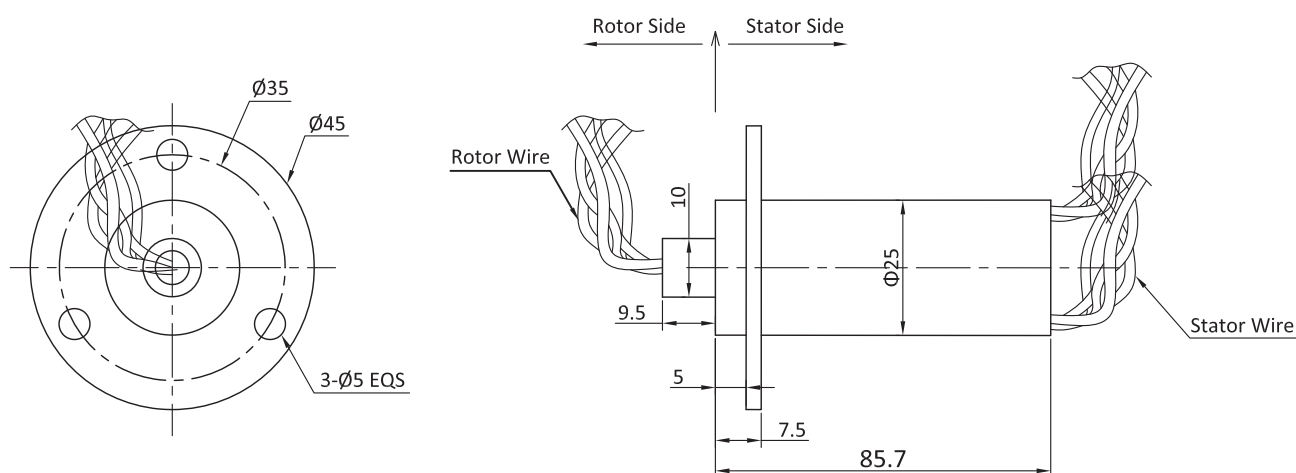
- Optional flange mounting.
- Specified connectors and Heat-shrink tube.
- Longer lead lengths available.
- Ethernet. USB, HDMI data transmission are available.
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.

INTRODUCE

MOS25

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MOS25 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Power Circuits(5A/10A)	Signal (2A)	Voltage(V)	OD(mm)	Length(mm)
MOS25-56	–	56	240	25	85.7

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.

MOS30 Series Overview

Description

MOS30 was a standard capsule slip ring, diameter 30mm, length can be 76.4mm, compact design with gold contact, can top to 54 circuits, high performance color lead wire. Perfect for transfer precision signal, low current. Small torque, low noise and loss, non-maintenance.

Features

- 54 circuit models
- Gold-on-gold contacts
- Flexible, color-coded, silver-plated, Teflon® insulated lead wires
- Transfers analog and digital signals

Typical Applications

- CCTV pan / tilt camera mounts
- Electrical test equipment
- Manufacturing and process control equipment
- Exhibit / display equipment
- Medical equipment

Specifications

Item	
Operating Speed	Max.250 RPM*
Number of Circuits	54 wires
Lead Wire	AWG28#, Teflon, 300mm
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

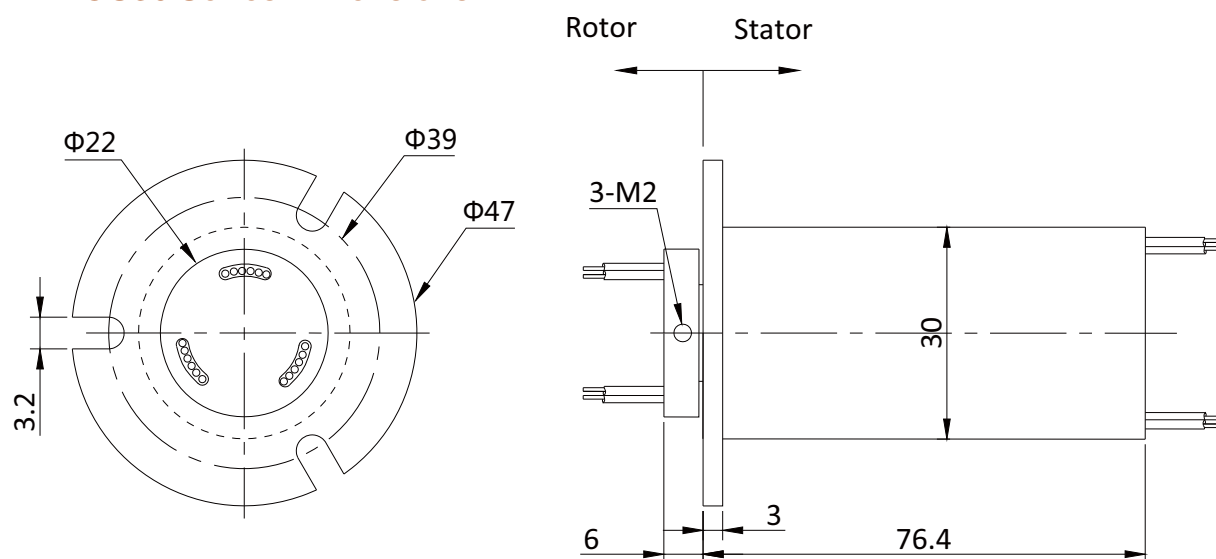
- Optional flange mounting.
- Specified connectors and Heat-shrink tube.
- Longer lead lengths available.
- Ethernet, USB, HDMI data transmission are available.
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.

INTRODUCE

MOS30

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MOS30 Series Dimensions

**Notes:**

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Power Circuits(5A/10A)	Signal (2A)	Voltage(V)	OD(mm)	Length(mm)
MOS30-S54	–	54	240	30	76.4

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.

Ethernet Slip Ring

1

Cosmau's Ethernet slip ring with advanced design that can transfer Ethernet data through a rotating interface reliably, our designs can meet the challenge of matching impedance, controlling crosstalk and managing losses.

Ethernet slip ring specially designed for 250Mhz frequency to transmit 100M/1000M Ethernet signals, with advantages of reliable transmitting, no packet loss, no string code, low return loss, low insertion loss, and PoE also available. In addition, this Ethernet slip ring can combine with power and other signal transmission, and special requires can be customized.



Features:

- Continuous 360° rotation of signal or data
- With RJ45 connectors
- Gold-on-gold contact
- No require lubrication
- Max 8 channels Ethernet in one slip ring
- 100M/1000M Ethernet transmission

ETW SERIES MODEL#

Model#	ID(mm)	OD(mm)	100M/1000M Ethenret	Power / Signal
ETW221	—	22	1~2	2~26
ETW12	12.7	56	1~4	2~22
ETW25	25.4	86	1~4	2~48
ETW38	38.1	99	1~4	2~56
ETW50	50	119	1~4	2~72

ETW221 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.

ETW221 Ethernet slip ring with compact design, 22mm OD, 1~2 channel Ethernet, can combine with 2A signal. Gold-gold plating which ensures low BER(bit-error rate)and high signal-noise ratio.



Specifications

Item	
Operating Speed	Max.250 RPM*
Number of Circuits	1x Ethernet + 2~26 wires
Lead Wire	CAT7, AWG28# Teflon, 300mm
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

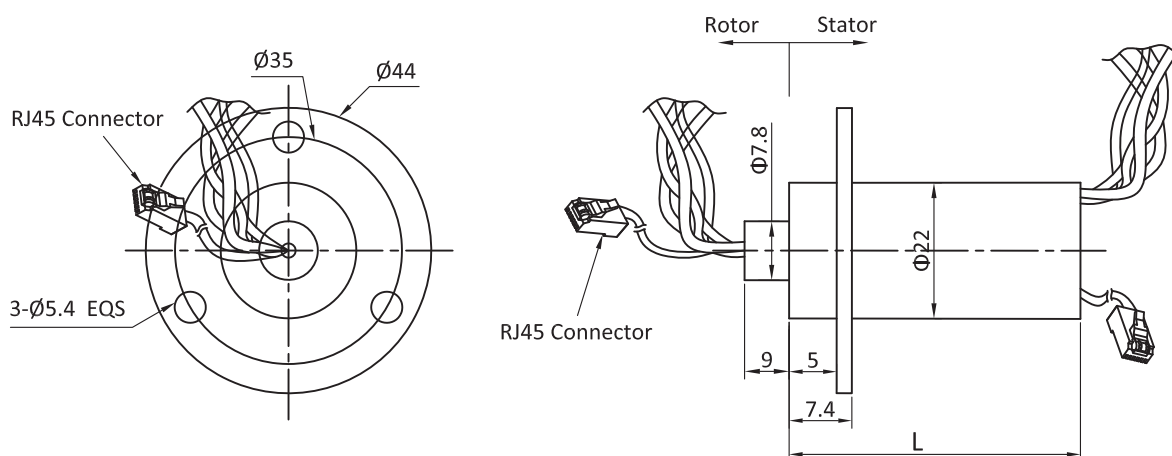
- Support hybrid high speed data transmission
- Longer lead lengths are available
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Terminal and heat-shrink tube are optional

INTRODUCE

ETW221

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ETW221 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Power Circuits(5A/10A)	Signal (2A)	100/1000M Ethernet	OD(mm)	Length(mm)
ETW221-06S	-	6	1	22	35
ETW221-14S	-	14	1	22	42.5
ETW221-26S	-	26	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.

ETW121 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.

ETW12 Ethernet slip ring with compact design, 12.7 mm routing space for shaft mounting, 1~4 channel Ethernet can combine with 2A signal and power(5A,8A). Gold-gold plating which ensures low BER(bit-error rate)and high signal-noise ratio.

**Specifications**

Item	
Operating Speed	Max.300 RPM*
Number of Circuits	1x Ethernet + 2~22 wires
Lead Wire	CAT7, AWG22#, AWG18# Teflon, 300mm
Voltage	380V AC/DC
Operating Temperature	-30℃ to 80℃
Current Rating	5A and 8A
Noise	<0.01Ω
Torque	0.1N.m; + 0.06N.m/6rings
Housing Material	Al Alloy
Protection Grade	IP51

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

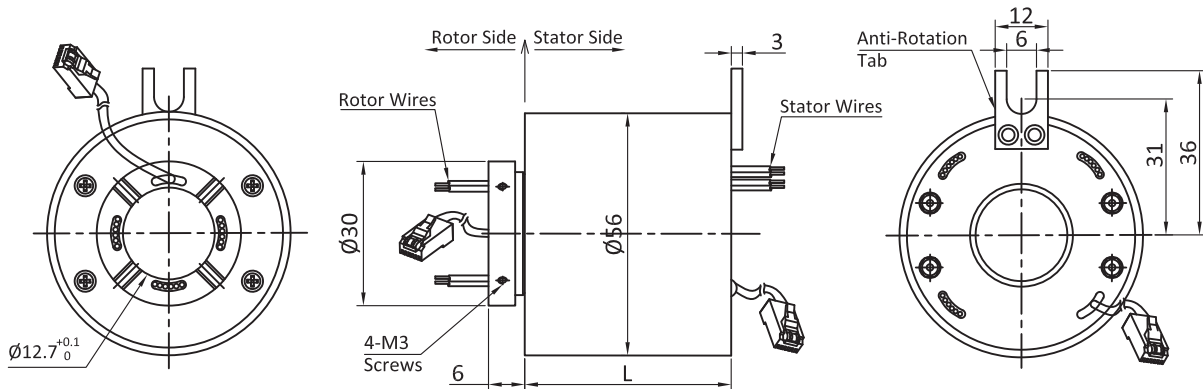
Options

- Flange with 4 mounting holes
- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

INTRODUCE

ETW121

ETW121 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters
2. Rotor and stator leads exit 4 places, 90° apart
3. Flange mounting is options

Part# List

Model#	Power Circuits(10A)	Signal (2A/5A)	100/1000M Ethernet	OD(mm)	Length(mm)
ETW121-S04	–	6	1	56	56.9
ETW121-P04	4	–	1	56	56.9
ETW121-S10	–	10	1	56	74.3
ETW121-P04S06	2	8	1	56	74.3
ETW121-S16	–	16	1	56	91.7
ETW121-P04S12	4	12	1	56	91.7
ETW121-S22	–	22	1	56	109.1

Notes: Not all of the part number are list in this table, if can not find suitable products, please contact us!

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	–	1000_T / CAT7 cable	9	RED	Signal / 5A, AWG22# Power/8A, AWG18#
2	–		10	BLK	
3	–		11	BLU	
4	–		12	BRN	
5	–		13	WHT	
6	–		14	GRY	
7	–				
8	–				

Notes:

6 wires for 1 group color, from 6~12 circuits would repeat the same color.

ETW251 Series Overview

Description

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

ETW25 with 25.4 mm through hole, 1~4 Ethernet channel, 1000M Ethernet + power/signal.

Gold-gold plating which ensures low BER(bit-error rate)and high signal-noise ratio.

**Specifications**

Item	
Operating Speed	Max.300 RPM*
Number of Circuits	1x Ethernet + 2~40 wires
Lead Wire	CAT7, AWG22#, AWG16# Teflon, 300mm
Voltage	440V AC/DC
Operating Temperature	-30℃ to 80℃
Current Rating	5A and 10A
Noise	<0.01Ω
Torque	0.1N.m; + 0.06N.m/6rings
Housing Material	Al Alloy
Protection Grade	IP51

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

Options

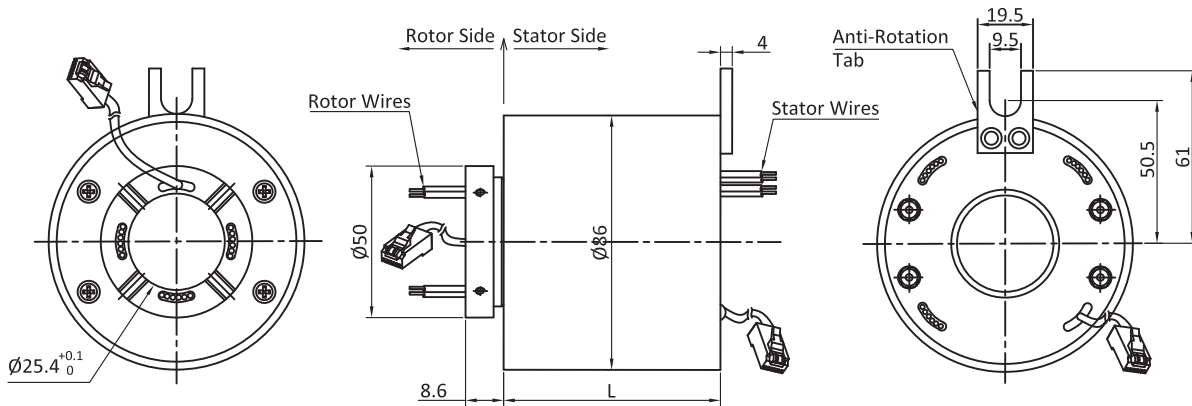
- Flange with 4 mounting holes
- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

INTRODUCE

ETW251

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ETW251 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters
2. Rotor and stator leads exit 4 places, 90° apart
3. Flange mounting is options

Part# List

Model#	Power Circuits(10A)	Signal (2A/5A)	100/1000M Ethernet	OD(mm)	Length(mm)
ETW251-S04	—	6	1	86	68.7
ETW251-P04	4	—	1	86	68.7
ETW251-S10	—	10	1	86	89.7
ETW251-P04S06	4	6	1	86	89.7
ETW251-S16	—	16	1	86	110.7
ETW251-P04S12	4	12	1	86	110.7
ETW251-S22	—	22	1	86	131.7

Notes: Not all of the part number are list in this table, if can not find suitable products, please contact us!

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	—	1000_T / CAT6 cable	9	RED	Signal / 5A, AWG22# Power/10A, AWG16#
2	—		10	BLK	
3	—		11	BLU	
4	—		12	BRN	
5	—		13	WHT	
6	—		14	GRY	
7	—				
8	—				

Notes:

6 wires for 1 group color, from 6~12 circuits would repeat the same color.

ETW381 Series Overview

Description

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

Gold-gold plating which ensures low BER(bit-error rate)and high signal-noise ratio.
ETW38 with 38.1mm through hole, 1~4 Ethernet channel, signal and power combination options. More Ethernet channel can be customized.

**Specifications**

Item	
Operating Speed	Max.300 RPM*
Number of Circuits	1x Ethernet + 2~40 wires
Lead Wire	CAT7, AWG22#, AWG16# Teflon, 300mm
Voltage	440V AC/DC
Operating Temperature	-30℃ to 80℃
Current Rating	5A and 10A
Noise	<0.01Ω
Torque	0.1N.m; + 0.06N.m/6rings
Housing Material	Al Alloy
Protection Grade	IP51

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

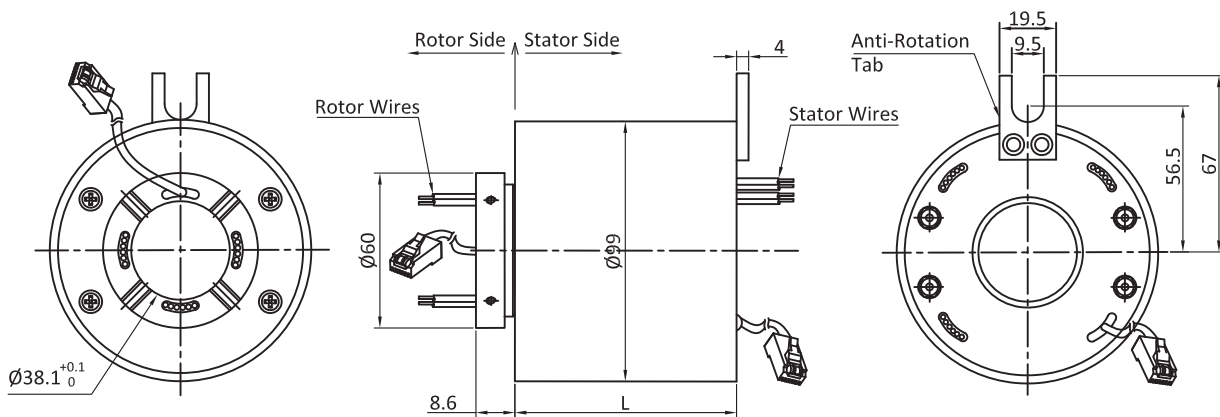
Options

- Flange with 4 mounting holes
- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

INTRODUCE

ETW381

ETW381 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters
2. Rotor and stator leads exit 4 places, 90° apart
3. Flange mounting is options

Part# List

Model#	Power Circuits(10A)	Signal (2A/5A)	100/1000M Ethernet	OD(mm)	Length(mm)
ETW381-S04	–	6	1	99	68.7
ETW381-P04	4	–	1	99	68.7
ETW381-S10	–	10	1	99	89.7
ETW381-P04S06	4	6	1	99	89.7
ETW381-S16	–	16	1	99	110.7
ETW381-P04S12	4	12	1	99	110.7
ETW381-S22	–	22	1	99	131.7

Notes: Not all of the part number are list in this table, if can not find suitable products, please contact us!

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	–	1000_T / CAT6 cable	9	RED	Signal / 5A, AWG22# Power/10A, AWG16#
2	–		10	BLK	
3	–		11	BLU	
4	–		12	BRN	
5	–		13	WHT	
6	–		14	GRY	
7	–				
8	–				

Notes:

6 wires for 1 group color, from 6~12 circuits would repeat the same color.

INTRODUCE

ETW501

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ETW501 Series Overview

Description

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

Gold-gold plating which ensures low BER(bit-error rate)and high signal-noise ratio. ETW50 with 50 mm through hole, 1~4 Ethernet channel, signal and power combination options. More Ethernet channel can be customized.



Specifications

Item	
Operating Speed	Max.300 RPM*
Number of Circuits	1x Ethernet + 2~40 wires
Lead Wire	CAT7, AWG22#, AWG16# Teflon, 300mm
Voltage	600V AC/DC
Operating Temperature	-30℃ to 80℃
Current Rating	5A and 10A
Noise	<0.01Ω
Torque	0.1N.m; + 0.06N.m/6rings
Housing Material	Al Alloy
Protection Grade	IP51

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

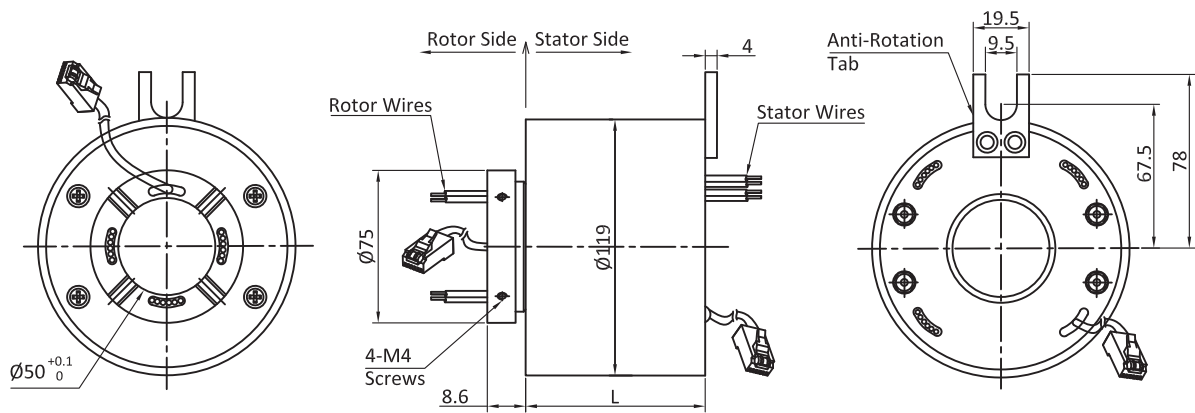
Options

- Flange with 4 mounting holes
- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

INTRODUCE

ETW501

ETW501 Series Dimensions

**Notes:**

1. Drawings not actual size, dimensions are in millimeters
2. Rotor and stator leads exit 4 places, 90° apart
3. Flange mounting is options

Part# List

Model#	Power Circuits(10A)	Signal (2A/5A)	100/1000M Ethernet	OD(mm)	Length(mm)
ETW501-S04	—	6	1	119	78.8
ETW501-P04	4	—	1	119	78.8
ETW501-S10	—	10	1	119	101.6
ETW501-P04S06	4	6	1	119	101.6
ETW501-S16	—	16	1	119	124.4
ETW501-0410-12S	4	12	1	119	124.4
ETW501-S22	—	22	1	119	147.2

Notes: Not all of the part number are list in this table, if can not find suitable products, please contact us!

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	—	1000_T / CAT6 cable	9	RED	Signal / 5A, AWG22# Power/10A, AWG16#
2	—		10	BLK	
3	—		11	BLU	
4	—		12	BRN	
5	—		13	WHT	
6	—		14	GRY	
7	—				
8	—				

Notes:

6 wires for 1 group color, from 6~12 circuits would repeat the same color.

High Current Slip Ring

1

Cosmau's high current, multiple contact SRF slip rings can handle hundreds of amperes. In applications like wind turbines, rotary turntable molding machines, conventional slip ring contacts suffer from arcing, friction and inevitable degradation of electrical performance. The SRF operates at 95% energy efficiency with no arcing or breaks in the flow of power, maintaining consistency and quality of power as it's transmitted. This greatly improves product quality and eliminates maintenance costs.



Features:

- Continuous 360° rotation of power
- High-current/multi-contact.
- Eliminates arcing
- No require lubrication
- Power and signal may be combined

SRF SERIES MODEL#

Model#	ID(mm)	OD(mm)	Current(A)	Voltage(V AC/DC)	Number Of Circuits
SRF05A	—	22	5	250	2~12
SRF10A	—	22~40	10	400	2~18
SRF15A	—	22	15	400	2~4
SRF30A	—	22~31	30	600	2~6
SRF50A	—	40	50	600	3, 4
SRF4150	—	158	50~500	690	4

SRF05A Series Overview

Description

SRF05A are large current, capsule slip rings. In applications like small wind turbines, revolving stage of lights industry. precious metal contact, ensure the stability and working life.

22mm outside diameter, 5A/circuit, 2, 3, 4, 6, 8, 12 circuits are available.



Specifications

Item	
Operating Speed	Max.150 RPM*
Number of Circuits	2~12 wires
Lead Wire	AWG22#, Teflon, 250mm
Voltage	250V AC/DC
Operating Temperature	-20℃ to 65℃
Current Rating	5A circuits
Noise	<0.01Ω
Torque	0.02N.m
Housing Material	Plastic
Protection Grade	IP51

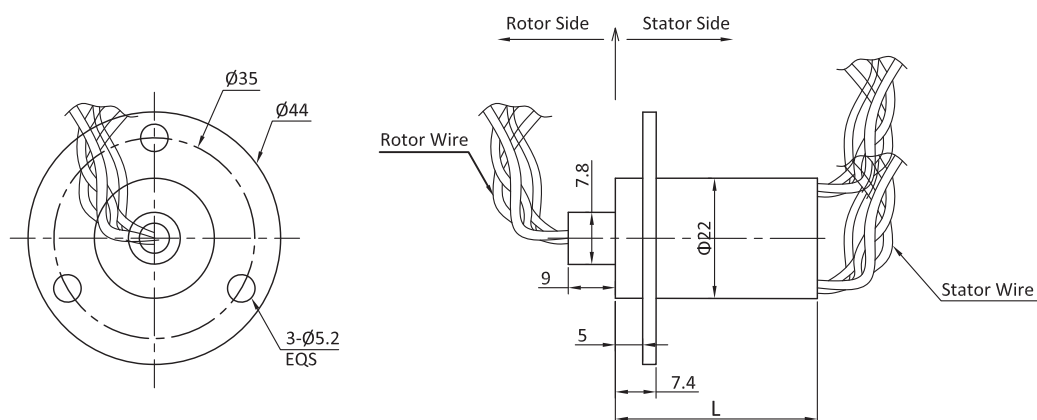
* Please note that the operational life of the unit is dependent upon rotational speed, environment and temperature

INTRODUCE

SRF05A

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SRF05A Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Power Circuits(5A)	Signal (2A)	Voltage(V)	OD(mm)	Length(mm)
SRF05A-2	2	—	250	22	19
SRF05A-3	3	—	250	22	26.4
SRF05A-4	4	—	250	22	26.4
SRF05A-6	6	—	250	22	26.4
SRF05A-8	8	—	250	22	35
SRF05A-12	12	—	250	22	42.5

Notes: Not all of the part number are list in this table, if can not find suitable products, please contact us!

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	BLK	Power / 5A, AWG22#	7	BLU	Power / 5A, AWG22#
2	BRN		8	VIO	
3	RED		9	GRY	
4	ORN		10	WHT	
5	YEL		11	PINK	
6	GRN		12	SOFT-BLU	

SRF10A Series Overview

Description

SRF10A are large current, capsule slip rings. In applications like small wind turbines, revolving stage of lights industry. precious metal contact, ensure the stability and working life.

22mm outside diameter, 10A/circuit, 2, 3, 4, 6, 8 circuits are available.



Specifications

Item	
Operating Speed	Max.150 RPM*
Number of Circuits	2~8 wires
Lead Wire	AWG17#, Teflon, 250mm
Voltage	400V AC/DC
Operating Temperature	-20℃ to 65℃
Current Rating	10A circuits
Noise	<0.01Ω
Torque	0.02N.m
Housing Material	Plastic
Protection Grade	IP51

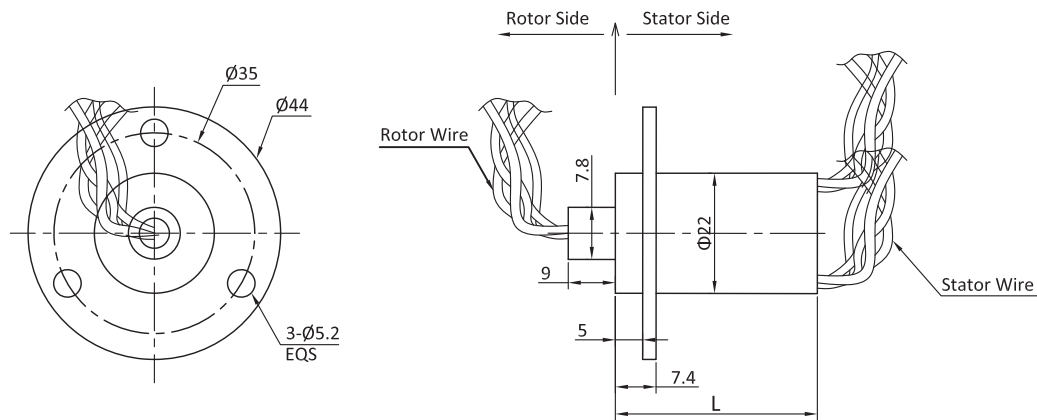
* Please note that the operational life of the unit is dependent upon rotational speed, environment and temperature

INTRODUCE

SRF10A

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SRF10A Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Power Circuits(10A)	Signal (2A)	Voltage(V)	OD(mm)	Length(mm)
SRF10A-2	2	—	400	22	26.4
SRF10A-3	3	—	400	22	26.4
SRF10A-4	4	—	400	22	35
SRF10A-6	6	—	400	22	42.5
SRF10A-8	8	—	400	22	42.5

Notes: Not all of the part number are list in this table, if can not find suitable products, please contact us!

SRF15A Series Overview

Description

SRF15A are large current, capsule slip rings. In applications like small wind turbines, revolving stage of lights industry, precious metal contact, ensure the stability and working life.
22mm outside diameter, 15A/circuit, 2, 3, 4 circuits are available.



Specifications

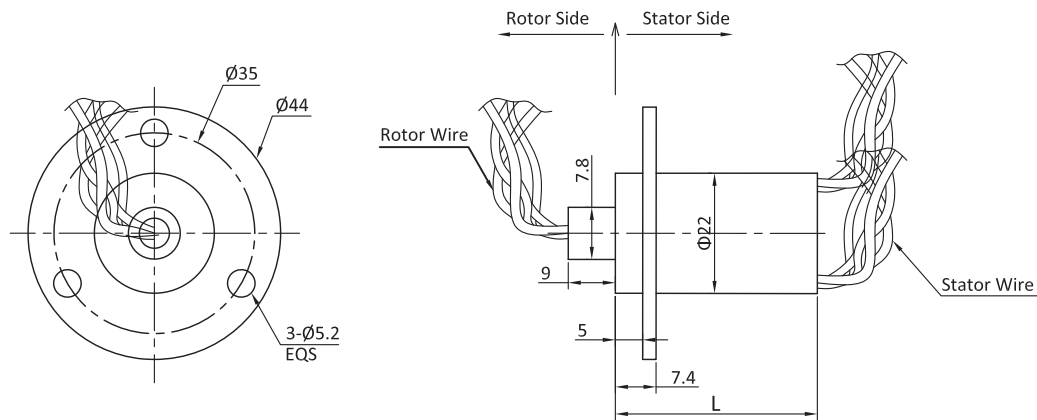
Item	
Operating Speed	Max.150 RPM*
Number of Circuits	2~4 wires
Lead Wire	AWG14#, Teflon, 250mm
Voltage	400V AC/DC
Operating Temperature	-20℃ to 65℃
Current Rating	15A circuits
Noise	<0.01Ω
Torque	0.02N.m
Housing Material	Plastic
Protection Grade	IP51

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

INTRODUCE

SRF15A

SRF15A Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Power Circuits(15A)	Signal (2A)	Voltage(V)	OD(mm)	Length(mm)
SRF15A-2	2	—	400	22	26.4
SRF15A-3	3	—	400	22	35
SRF15A-4	4	—	400	22	42.5

SRF30A Series Overview

Description

SRF30A are large current, capsule slip rings. In applications like small wind turbines, revolving stage of lights industry. precious metal contact, ensure the stability and working life.

22mm / 31mm outside diameter, 30A/circuit, 2, 3, 4, 6 circuits are available.



Specifications

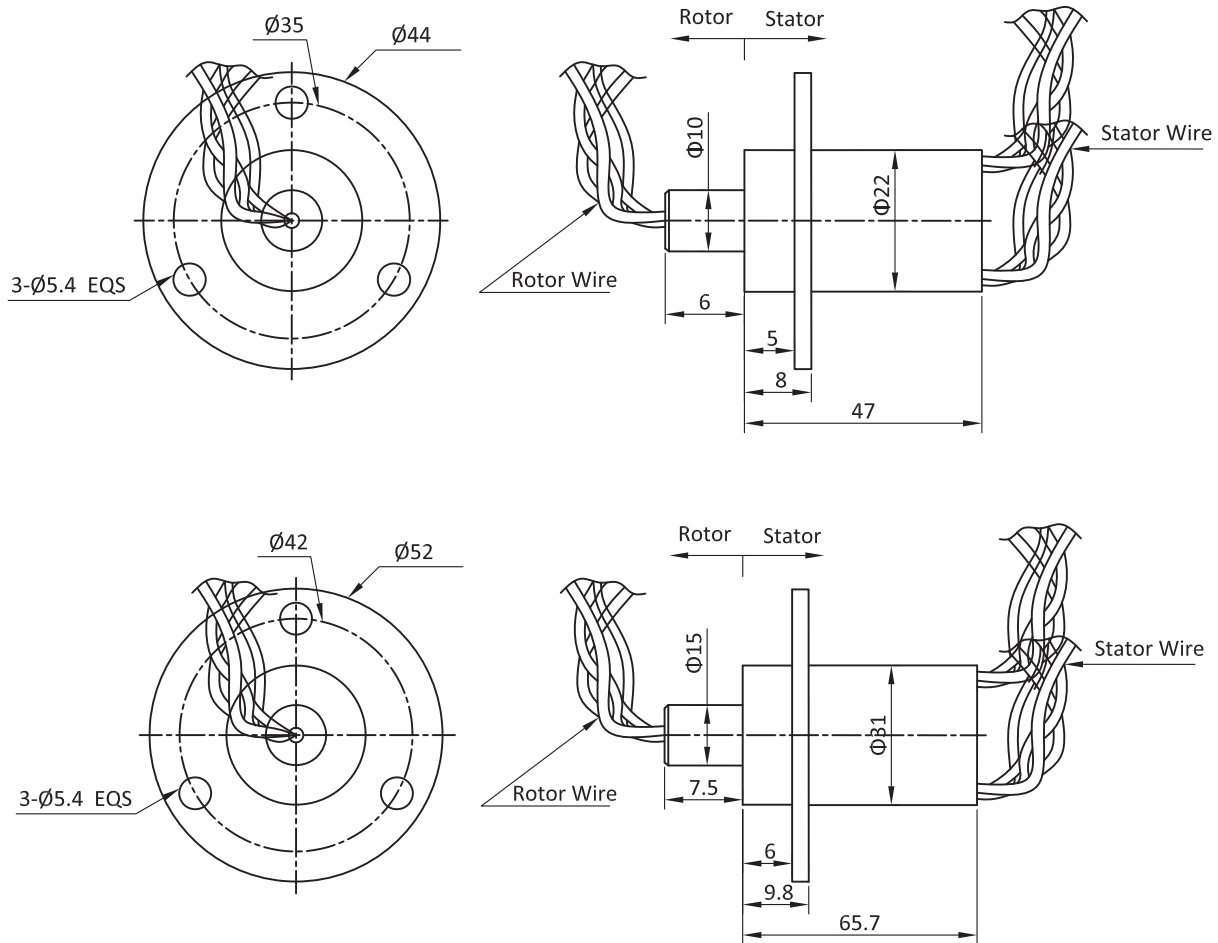
Item	
Operating Speed	Max.150 RPM*
Number of Circuits	2~6 wires
Lead Wire	AWG12#, Teflon, 250mm
Voltage	600V AC/DC
Operating Temperature	-20℃ to 65℃
Current Rating	30A circuits
Noise	<0.01Ω
Torque	0.02N.m
Housing Material	Plastic
Protection Grade	IP51

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

INTRODUCE

SRF30A

SRF30A Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Power Circuits(30A)	Signal (2A)	Voltage(V)	OD(mm)	Length(mm)
SRF330	3	—	600	22	47
SRF430	4	—	600	31	65.7
SRF630	6	—	600	31	65.7

SRF50A Series Overview

Description

SRF50A are large current, capsule slip rings. In applications like small wind turbines, revolving stage of lights industry. precious metal contact, ensure the stability and working life.

40mm outside diameter, 50A/circuit, 3, 4 circuits available.



Specifications

Item	
Operating Speed	Max.150 RPM*
Number of Circuits	3, 4 wires
Lead Wire	AWG8#, Teflon, 250mm
Voltage	600V AC/DC
Operating Temperature	-20℃ to 65℃
Current Rating	30A circuits
Noise	<0.01Ω
Torque	0.02N.m
Housing Material	Plastic
Protection Grade	IP51

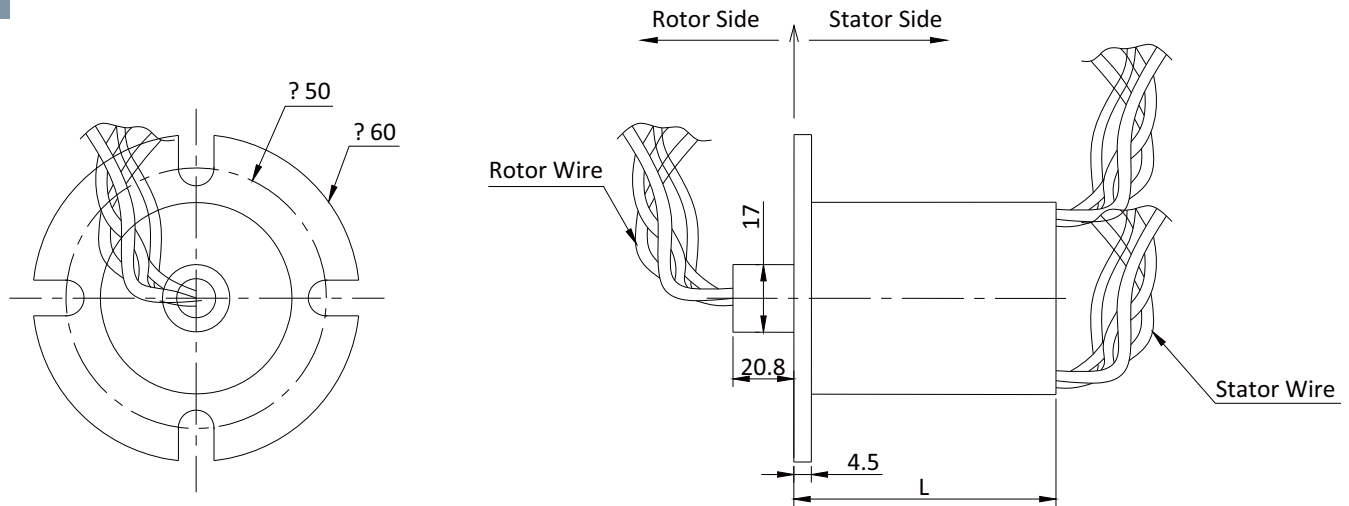
* Please note that the operational life of the unit is dependent upon rotational speed, environment and temperature

INTRODUCE

SRF50A

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SRF50A Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Power Circuits(50A)	Signal (2A)	Voltage(V)	OD(mm)	Length(mm)
SRF50A-3	3	—	600	40	49.1
SRF50A-4	4	—	600	40	63.7

INTRODUCE

SRF4150

12

SRF4150 Series Overview

Description

SRF4150 is large current slip ring. and the rotor and stator separately adopt terminal connection, which is often used in application over 100A. According to the customer's request, it can be customized to add signal and high speed data.



Specifications

Item	
Operating Speed	Max.100 RPM*
Number of Circuits	4
Lead Wire	Terminal
Voltage	690V AC/DC
Operating Temperature	-40℃ to 80℃
Current Rating	200A~500 circuits
Noise	<0.01Ω
Torque	0.5N.m
Housing Material	Al alloy
Protection Grade	IP51

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

Options

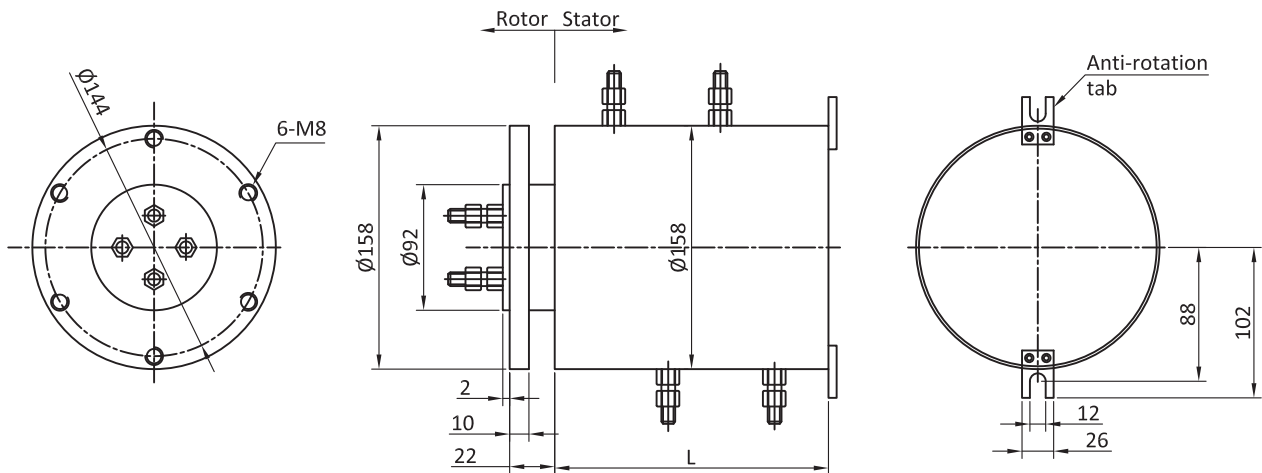
- Hybrid signal / data transmission are available.
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.

INTRODUCE

SRF4150

13

Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	200A	300A	500A	Voltage(V AC/DC)	Length(mm)
SRF4150-P02200	2	—	—	690	170
SRF4150-P02300	—	2	—	690	170
SRF4150-P02500	—	—	2	690	210
SRF4150-P03200	3	—	—	690	220
SRF4150-P03300	—	3	—	690	220
SRF4150-P03500	—	—	3	690	280
SRF4150-P04200	4	—	—	690	270
SRF4150-P04300	—	4	—	690	270
SRF4150-P04500	—	—	4	690	350

HD Series Slip Ring

1

HD-SDI interface is a digital video / audio interface technology, is dedicated interfaces for digital video transmission, it can transmit audio and video signals.

The HD-SDI/HDMI slip ring is a kind of digital video/audio connector technique, which is the specialized digital that is suitable for image, voice, video transmission.



Features:

- 720p, 1080i, 1080p video transmission is possible
- Other signals and current rings can be integrated inside
- Gold-on-gold contact
- No require lubrication
- No data transmission error code and no loss
- The flange of dimension, outside diameter, direction can be customized as per request

HD SERIES MODEL#

Model#	ID(mm)	OD(mm)	Current(A)	Voltage(V AC/DC)	Circuits
HD12	—	22	2	240	1x HD-SDI + 12x 2A
Hd24	—	22	2	240	1x HD-SDI + 24x 2A
HD00-2	—	22	2	240	2x HD-SDI

HD12 Series Overview

Description

The HD12, provides HD-SDI communication in combination with 12, 2 amp connections. RG179 coax cable is provided for video transfer. The coax cable is supplied terminated with BNC connectors, ready to install.



Features

- Frequency rate:DC-2.3GHz
- Gold-on-gold contacts
- Available with one coax, and 12x 2 amp connections
- RG179(impedance 75Ω)

Typical Applications

- Security cameras
- Rotating video displays
- Camera jibs
- Pan / tilt video camera heads
- Medical equipment

Specifications

Item	
Operating Speed	Max.250 RPM*
Number of Circuits	1x HD-SDI + 12x 2A
Lead Wire	RG179 Coax cable, AWG28# Teflon, 300mm
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

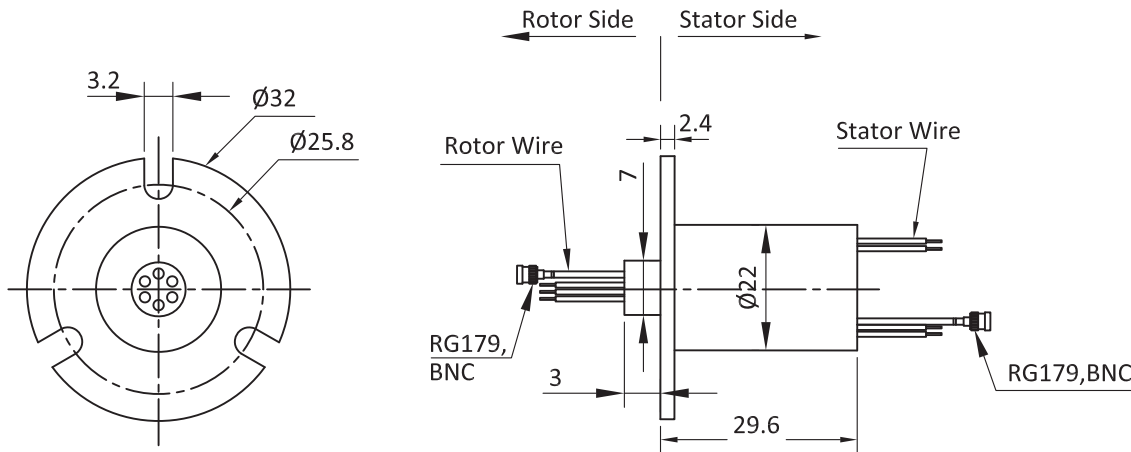
Options

- Flange / No flange.
- Specified connectors and Heat-shrink tube.
- Longer lead lengths available.
- Ethernet, USB, HDMI data tranmission are available.
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.

INTRODUCE

HD12

HD12 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Coax Cable	Signal (2A)	Voltage(V)	OD(mm)	Length(mm)
Hd12	1	12	240	22	29.6

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.

HD24 Series Overview

Description

The HD24, provides HD-SDI communication in combination with 24, 2 amp connections. RG179 coax cable is provided for video transfer. The coax cable is supplied terminated with BNC connectors, ready to install.



Features

- Frequency rate:DC-2.3GHz
- Gold-on-gold contacts
- Available with one coax, and 24x 2 amp connections
- RG179(impedance 75Ω)

Typical Applications

- Security cameras
- Rotating video displays
- Camera jibs
- Pan / tilt video camera heads
- Medical equipment

Specifications

Item	
Operating Speed	Max.250 RPM*
Number of Circuits	1x HD-SDI + 24x 2A
Lead Wire	RG179 Coax cable, AWG28# Teflon, 300mm
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

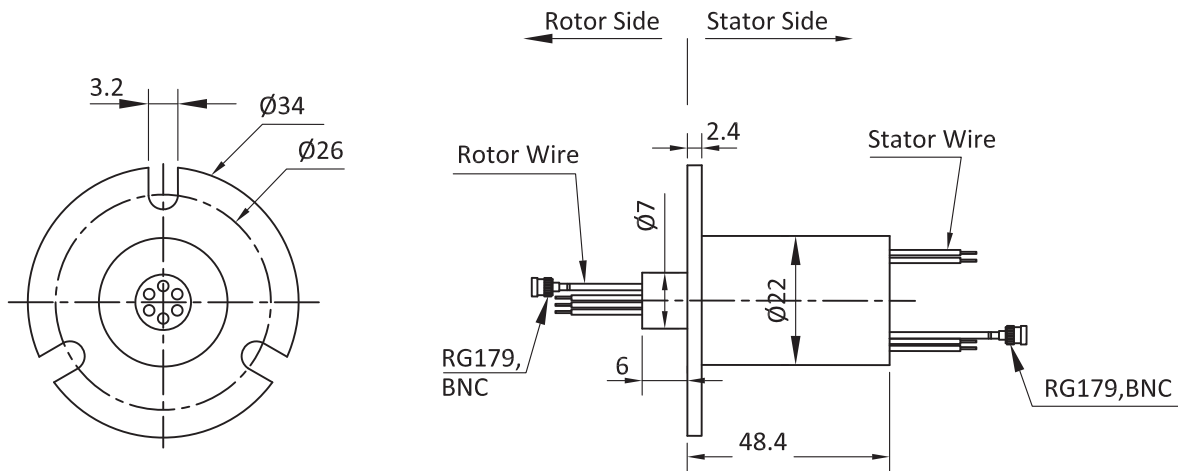
Options

- Flange / No flange.
- Specified connectors and Heat-shrink tube.
- Longer lead lengths available.
- Ethernet, USB, HDMI data tranmission are available.
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.

INTRODUCE

HD24

HD24 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Coax Cable	Signal (2A)	Voltage(V)	OD(mm)	Length(mm)
Hd24	1	24	240	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.

HD00-2 Series Overview

Description

The HD00-2, provides HD-SDI communication. RG179 coax cable is provided for video transfer. The coax cable is supplied terminated with BNC connectors, ready to install.



Features

- Frequency rate:DC-2.3GHz
- Gold-on-gold contacts
- Available with 2 coax, connections
- RG179(impedance 75Ω)

Typical Applications

- Security cameras
- Rotating video displays
- Camera jibs
- Pan / tilt video camera heads
- Medical equipment

Specifications

Item	
Operating Speed	Max.250 RPM*
Number of Circuits	2x HD-SDI
Lead Wire	RG179 Coax cable
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

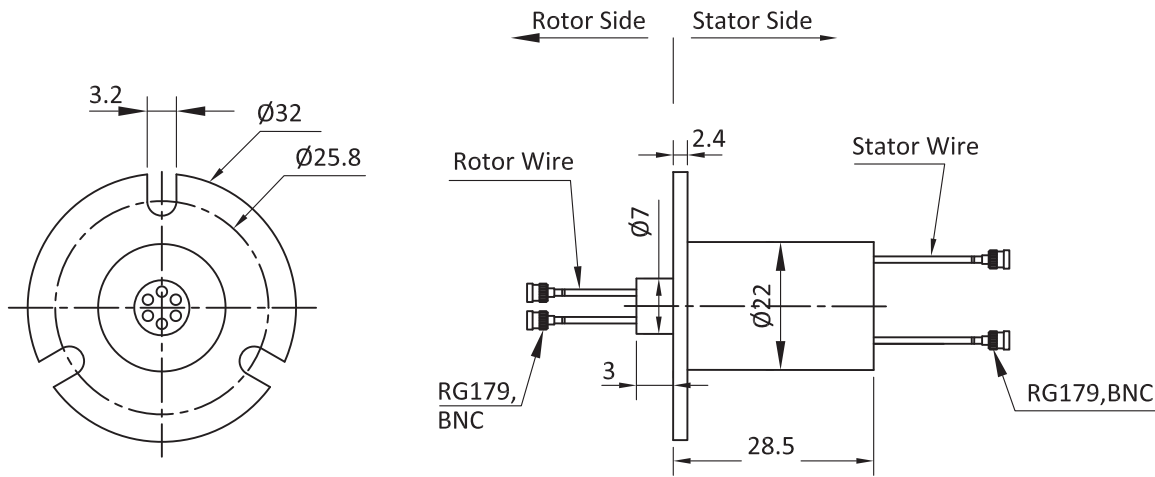
Options

- Flange / No flange.
- Longer lead lengths available.
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.

INTRODUCE

HD00-2

HD00-2 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters

Part# List

Model#	Coax Cable	Signal (2A)	Voltage(V)	OD(mm)	Length(mm)
HD00-2	2	—	240	22	28.5

Ethernet Slip Ring

1

The USB slip ring is designed to transmit the signal of USB1.0, USB2.0. With reliable transmission, no packet loss, no string of code, small return loss, low insertion loss etc. USB2.0 slip ring has been widely used in rotating systems to transfer high speed signals, the transmission rate of 480Mbps providing the best solutions for you to transfer data from a stationary to a rotating structure.



Features:

- Gold contact material which ensures low torque, stable rotation, long life, low electrical noise and good transmitting performance.
- Gold-on-gold contact
- No require lubrication
- Max 8 channels USB in one slip ring
- Can combine with power / signal or pneumatic/hydraulic slip ring

ETW SERIES MODEL#

Model#	ID(mm)	OD(mm)	USB2.0	Power / Signal
USB221	—	22	1~4	2~30
USB12	12.7	56	1~4	2~22
USB25	25.4	86	1~8	2~48
USB38	38.1	99	1~8	2~56
USB50	50	119	1~8	2~72

USB221 Series Overview

Description

Slip ring is a precision device can be used in any electromechanical system that transfer signal and power from a statinary to a state structive, 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

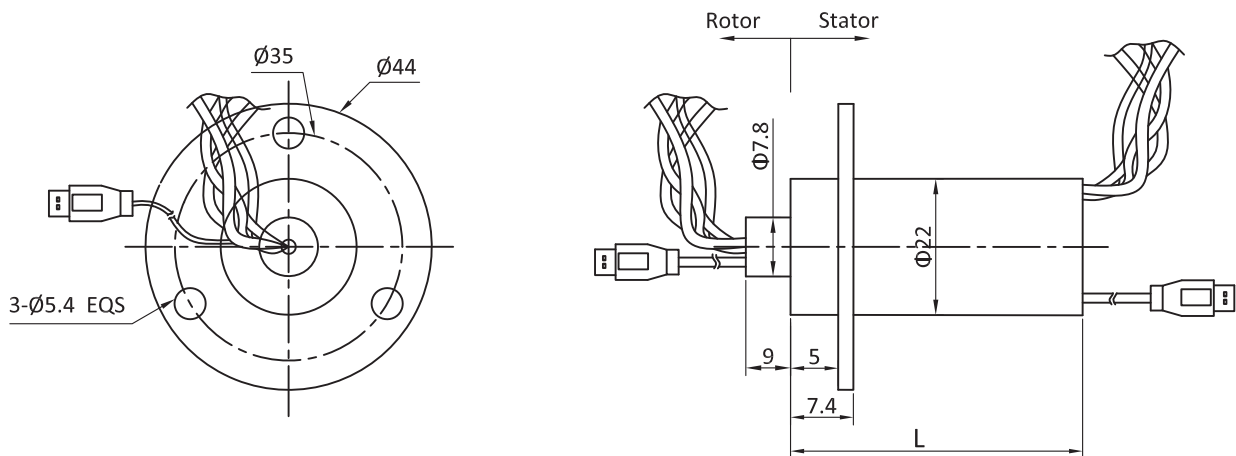
- Support mixed high speed data transmission
- Longer lead lengths are available
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Terminal and heat-shrink tube are optional

INTRODUCE

USB221

3

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.

USB121 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.

USB12 slip ring with through bore 12.7mm, outer diameter 56mm, can be mixed transmission power current, signal, etc. 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.300 RPM*
Number of Circuits	1x USB2.0 + 2~32 wires
Lead Wire	USB cable, AWG22#, AWG18# Teflon, 300mm
Voltage	380V AC/DC
Operating Temperature	-40℃ to 80℃
Current Rating	Signal / 5A , Power 8A circuits
Noise	<0.01Ω
Torque	0.1N.m; + 0.06N.m/6rings
Housing Material	Al Alloy
Protection Grade	IP51

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

Options

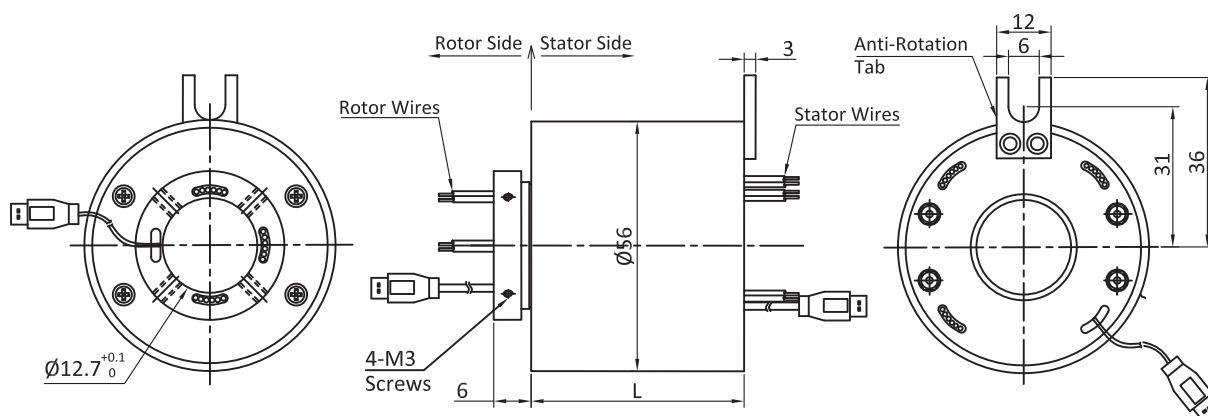
- Flange with 4 mounting holes
- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

INTRODUCE

USB121

5

USB121 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters
2. Rotor and stator leads exit 4 places, 90° apart
3. Flange mounting is options

Part# List

Model#	Power Circuits(10A)	Signal (2A/5A)	USB2.0	OD(mm)	Length(mm)
USB121-S02	–	2	1	56	39.5
USB121-P02	2	–	1	56	39.5
USB121-S08	–	8	1	56	56.9
USB121-P08	8	–	1	56	56.9
USB121-P04S04	4	4	1	56	56.9
USB121-P04S10	4	10	1	56	74.3
USB121-S14	–	14	1	56	74.3

Notes: Not all of the part number are list in this table, if can not find suitable products, please contact us!

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	–	USB2.0 cable	5	RED	Signal / 5A, AWG22# Power/10A, AWG16#
2	–		6	BLK	
3	–		7	BLU	
4	–		8	BRN	
			9	WHT	
			10	GRY	

Notes:

6 wires for 1 group color, from 6~12 circuits would repeat the same color.

USB251 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.

SB25 slip ring with through bore 25.4mm, outer diameter 86mm, can be mixed transmission power current, signal, etc. With transmission stability, no packet loss, no string of code, low return and insertion loss. US military coating technology, ultra-low BER error rate and superior signal to noise ratio.



Specifications

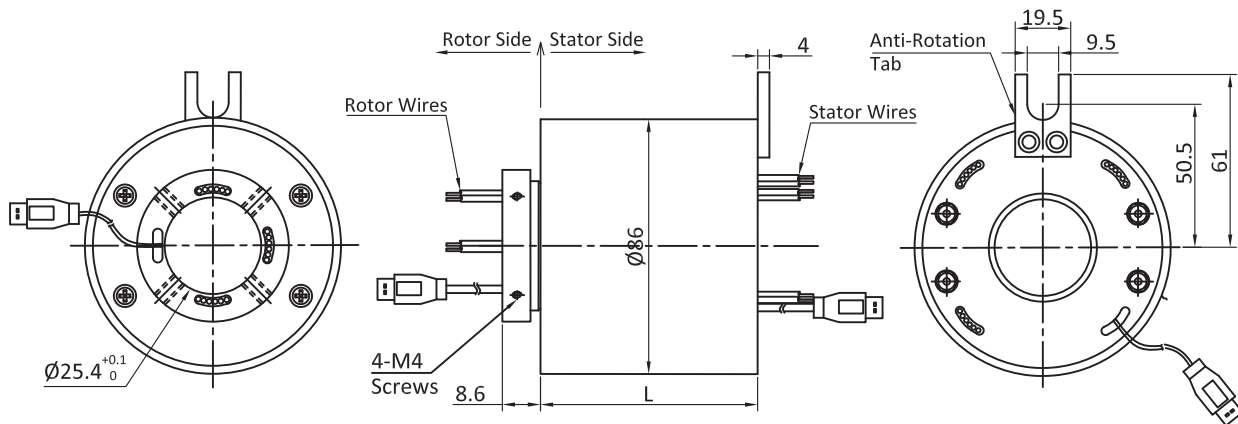
Item	
Operating Speed	Max.300 RPM*
Number of Circuits	1x USB2.0 + 2~32 wires
Lead Wire	USB cable, AWG22#, AWG16# Teflon, 300mm
Voltage	440V AC/DC
Operating Temperature	-40℃ to 80℃
Current Rating	Signal / 5A , Power 10A circuits
Noise	<0.01Ω
Torque	0.1N.m; + 0.06N.m/6rings
Housing Material	Al Alloy
Protection Grade	IP51

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

Options

- Flange with 4 mounting holes
- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

USB251 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters
2. Rotor and stator leads exit 4 places, 90° apart
3. Flange mounting is options

Part# List

Model#	Power Circuits(10A)	Signal (2A/5A)	USB2.0	OD(mm)	Length(mm)
USB251-S02	–	2	1	86	44.2
USB251-P02	2	–	1	86	44.2
USB251-S08	–	8	1	86	65.2
USB251-P08	8	–	1	86	65.2
USB251-P04S04	4	4	1	86	65.2
USB251-S14	–	14	1	86	65.2
USB251-P04S10	4	10	1	86	86.2

Notes: Not all of the part number are list in this table, if can not find suitable products, please contact us!

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	–	USB2.0 cable	5	RED	Signal / 5A, AWG22# Power/10A, AWG16#
2	–		6	BLK	
3	–		7	BLU	
4	–		8	BRN	
			9	WHT	
			10	GRY	

Notes:

6 wires for 1 group color, from 6~12 circuits would repeat the same color.

USB381 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.

USB38 slip ring with through bore 38.1mm, outer diameter 99mm, can be mixed transmission power current, signal, etc. 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.300 RPM*
Number of Circuits	1x USB2.0 + 2~32 wires
Lead Wire	USB cable, AWG22#, AWG16# Teflon, 300mm
Voltage	440V AC/DC
Operating Temperature	-40℃ to 80℃
Current Rating	Signal / 5A , Power 10A circuits
Noise	<0.01Ω
Torque	0.1N.m; + 0.06N.m/6rings
Housing Material	Al Alloy
Protection Grade	IP51

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

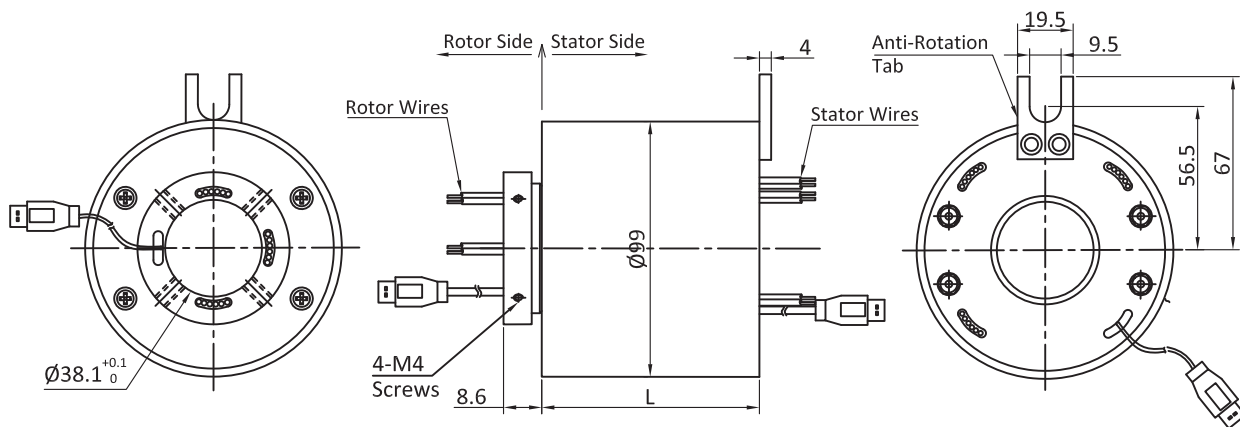
Options

- Flange with 4 mounting holes
- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

INTRODUCE

USB381

USB381 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters
2. Rotor and stator leads exit 4 places, 90° apart
3. Flange mounting is options

Part# List

Model#	Power Circuits(10A)	Signal (2A/5A)	USB2.0	OD(mm)	Length(mm)
USB381-S02	–	2	1	99	47.7
USB381-P02	2	–	1	99	47.7
USB381-S08	–	8	1	99	68.7
USB381-P08	8	–	1	99	68.7
USB381-P04S04	4	4	1	99	68.7
USB381-S14	–	14	1	99	89.7
USB381-P04S10	4	10	1	99	89.7

Notes: Not all of the part number are list in this table, if can not find suitable products, please contact us!

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	–	USB2.0 cable	5	RED	Signal / 5A, AWG22# Power/10A, AWG16#
2	–		6	BLK	
3	–		7	BLU	
4	–		8	BRN	
			9	WHT	
			10	GRY	

Notes:

6 wires for 1 group color, from 6~12 circuits would repeat the same color.

USB501 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.

USB50 slip ring with through bore 50mm, outer diameter 119mm, can be mixed transmission power current, signal, etc. 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.300 RPM*
Number of Circuits	1x USB2.0 + 2~32 wires
Lead Wire	USB cable, AWG22#, AWG16# Teflon, 300mm
Voltage	600V AC/DC
Operating Temperature	-40℃ to 80℃
Current Rating	Signal / 5A , Power 10A circuits
Noise	<0.01Ω
Torque	0.1N.m; + 0.06N.m/6rings
Housing Material	Al Alloy
Protection Grade	IP51

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

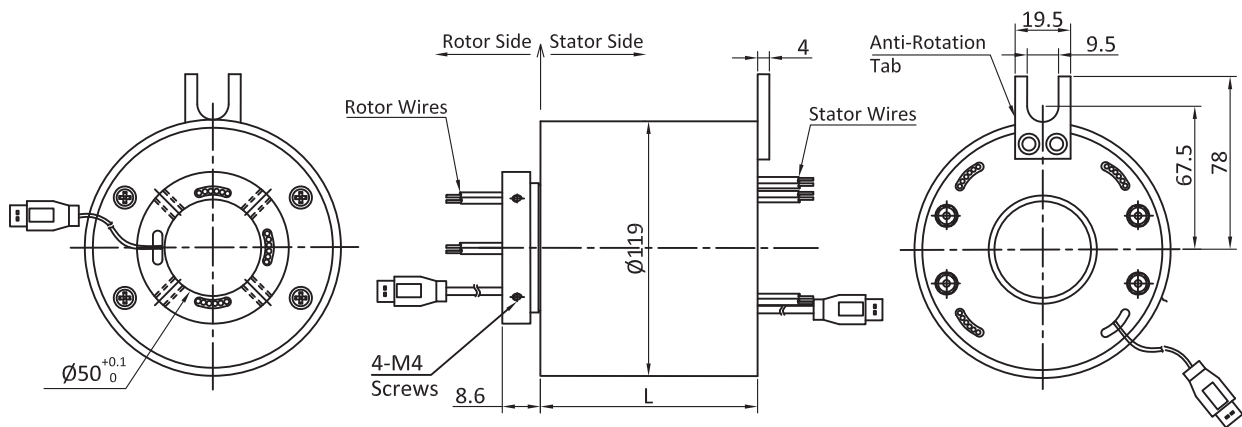
Options

- Flange with 4 mounting holes
- Splash seals for dust and moisture resistance
- Various axial and radial lead exits are available
- Longer lead lengths are available
- Higher current and voltage capacity per circuit
- Support mixed high speed data transmission
- Hybrid Pneumatic/hydraulic and electric slip ring can be mixed.
- Aviation plug, terminal and heat-shrink tube are optional
- IP 65 rated slip ring available

INTRODUCE

USB501

USB501 Series Dimensions



Notes:

1. Drawings not actual size, dimensions are in millimeters
2. Rotor and stator leads exit 4 places, 90° apart
3. Flange mounting is options

Part# List

Model#	Power Circuits(10A)	Signal (2A/5A)	USB2.0	OD(mm)	Length(mm)
USB501-S02	–	2	1	119	56
USB501-P02	2	–	1	119	56
USB501-S08	–	8	1	119	78.8
USB501-P08	8	–	1	119	78.8
USB501-P04S04	4	4	1	119	78.8
USB501-S14	–	14	1	119	101.6
USB501-P04S10	4	10	1	119	101.6

Notes: Not all of the part number are list in this table, if can not find suitable products, please contact us!

Lead wire color code(From the rotor)

Ring#	Color	Description/AWG	Ring#	Color	Description/AWG
1	–	USB2.0 cable	5	RED	Signal / 5A, AWG22# Power/10A, AWG16#
2	–		6	BLK	
3	–		7	BLU	
4	–		8	BRN	
			9	WHT	
			10	GRY	

Notes:

6 wires for 1 group color, from 6~12 circuits would repeat the same color.

Water-Proof Slip Ring

1

Cosmau's waterproof slip ring with advaced design that can operating under water. IP68 design with high performance, long service life; unique sealing technology would meet your applications greatly. Mainly applied to ships and oil wells.



Features:

- Continuous 360° rotation
- Anti-corrosion stainless steel housing
- Unique sealing technology
- Can working under water
- Custom solution is available

WP SERIES MODEL#

Model#	ID(mm)	OD(mm)	Power / Signal	IP Grade
WP028	–	28	2~24	IP68
WP038	–	38	2~56	IP68
WP065	Solid or 10	65	2~56	IP65 or IP68
WP086	Solid or 20	86	2~72	IP65 or IP68
WP099	Solid or 30	99	2~72	IP65 or IP68

The series slip ring are belong to custom solutions, please contact us to get the solutions.

Servo Motor Encoder Slip Ring

1

Slip ring can be used in any electromechanical system that requires unrestrained, continuous rotation while transferring power and / or data from a stationary to a rotating structure. It is the best solution for servo motor which need to transfer encoder signal in rotating system.

Optional for flange or through hole installation, designed for the servo motor/encoder of automatic control systems.



Features:

- Special servo slip ring designed for Yaskawa, Panasonic, Mitsubishi, Siemens servo motor with stable and reliable performance.
- Can combine with power / Signal
- Gold plated ring and Gold alloy brush
- Inner wiring and shield structure can totally prevent the mistake of encoder error.

SEM SERIES MODEL#

Model#	ID(mm)	OD(mm)	Servo Motor Number	Power / Signal
SEM00	—	56	1~2	2~24
SEM12	12.7	86	1~4	2~24
SEM25	25.4	99	1~4	2~24
SEM38	38.1	119	1~4	2~24

1. 1x Servo Motor (4 cores @10A power cable + 6 cores shield encoder signal cable);
2. Please send your requires to us, then we will find a best solution for you;