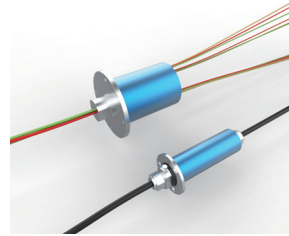


NST Series- Water-proof Slip Ring

Description

- Specially designed for underwater operation and waterproof work
- Industrial grade product, protection grade can be customized to IP68
- Gold-gold, silver-silver contact, adopting imported seals and military grade plating treatment
- Multi-point contact, waterproof gland on leads exit, etc.
- Customizable on your request



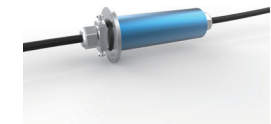
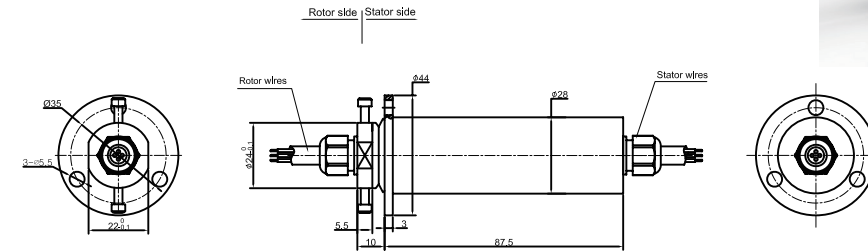
Model# List

Model	ID (mm)	OD (mm)	Rings No.	Protection Grade
NST000006012~ NST000024001	0	28	6~24	IP68
NST000006013~ NST000056001	0	38	6~56	IP68
NST000006021~ NST000024005	0	56	6~24	IP65、IP68
NST000006025~ NST000072003	0	86	6~72	IP65、IP68
NST025006030~ NST025072010	25.4	86	6~72	IP65、IP68
NST050006028~ NST050072008	50	119	6~72	IP65、IP68

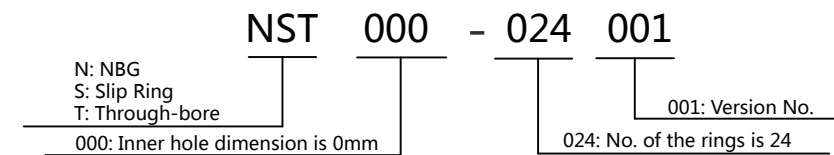
Contact the customer service if you have special requirements.

NST000024001

Standard series waterproof slip ring with OD28mm , ID 0mm.



Part# Explanation



Part# List

Model	Rings No. (2A) *	Rings No. (5A) *	Rings No. (10A) *	Rings No. (20A) *	L (mm)
NST000006012	6	0	0	0	87.5
NST000012008	12	0	0	0	87.5
NST000018001	18	0	0	0	87.5
NST000024001	24	0	0	0	87.5
NST000003016	0	0	0	3	87.5
NST000018002	16	2	0	0	87.5
NST000014001	12	0	2	0	87.5
NST000011001	8	0	3	0	87.5

N rings 2A in parallel can be used as 1 channel N*2A. For example: 2 rings 2A in parallel can be used as 1 channel 4A
 Contact the customer service if you have special requirements.

Specifications

Mechanical Data		Electrical Data		
Parameter	Value	Parameter	Value	
			Power	Signal
Lifetime	10~120 million revs	Rated Voltage	0~440VAC/VDC	0~440VAC/VDC
Rotating speed	0~300 RPM	Insulation Resistance	≥1000MΩ/500VDC	≥1000MΩ/500VDC
Working Temp.	-30°C~80°C	Lead Wire	waterproof wire	waterproof wire
Operating Humidity	0~85% RH	Lead Length	Standard Length 300mm(adjustable)	
Contact Material	silver-silver	Insulating Strength	500VAC@50Hz , 60s	
Housing Material	aluminum alloy, engineering plastic	Electric Noise	<0.01Ω	
Torque	0.5N.m ; +0.03N.m/6 rings			
Protection Grade	IP51~IP68			

NST Series- Water-proof Slip Ring

NST Series- Water-proof Slip Ring

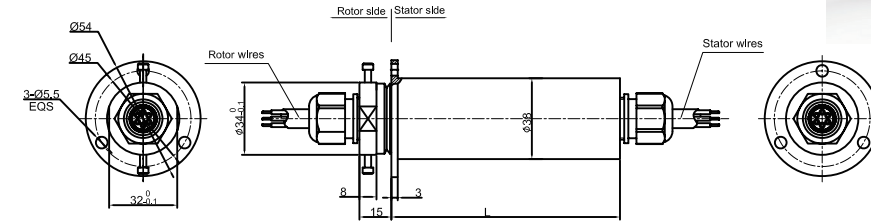
Options

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

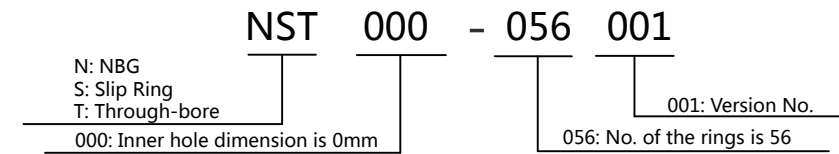
- * Cable exit way and cable length can be customized for both rotor and stator
- * Because of the structure limitation, length/height/OD can be customized for both rotor and stator
- * Support current or signal up to 200 rings
- * Optional aviation plug, terminal and heat-shrink tube
- * Hybrid slip ring for all brands of servo control signal, power line and encoder line
- * Support mixed high speed data transmission(including Ethernet, USB, RS232, RS485, Profibus, CanBUS, CANOPEN, DeviceNET, CC-LINK, ProfiNET, EtherCAT, etc)
- * Combine temperature control signal with thermocouple signal
- * Special environment can be customized, such as quakeproof, high temperature, etc.
- * Hybrid pneumatic/hydraulic and electric slip ring can be mixed
- * Up to 500 degrees high temperature
- * Up to 110KV high voltage
- * Up to 20000RPM rotating speed
- * Maximum current can be up to 5000A
- * Military grade
- * Optional waterproof and underwater mode
- * Optional IP68
- * Optional C5 anti-corrosion grade
- * Optional stainless steel housing

NST000056001

Standard series waterproof slip ring with OD38mm , ID 0mm.



Part# Explanation



Part# List

Model	Rings No. (2A) *	Rings No. (10A) *	Rings No. (20A) *	L (mm)	Model	Rings No. (2A) *	Rings No. (10A) *	Rings No. (20A) *	L (mm)
NST000006013	0	6	0	107.5	NST000056001	56	0	0	146.5
NST000006014	0	0	6	107.5	NST000012009	0	12	0	146.5
NST000006015	4	2	0	107.5	NST000012010	10	2	0	146.5
NST000006016	4	0	2	107.5	NST000012011	8	4	0	146.5
NST000006017	2	4	0	107.5	NST000012012	6	6	0	146.5
NST000006018	2	0	4	107.5	NST000012013	4	8	0	146.5
NST000006019	3	3	0	107.5	NST000012014	2	10	0	146.5
NST000006020	3	0	3	107.5	NST000012015	12	0	0	146.5
NST000036001	36	0	0	107.5					

N rings 2A in parallel can be used as 1 channel N*2A. For example: 2 rings 2A in parallel can be used as 1 channel 4A
Contact the customer service if you have special requirements.

Specifications

Mechanical Data		Electrical Data		
Parameter	Value	Parameter	Value	
			Power	Signal
Lifetime	10~120 million revs	Rated Voltage	0~440VAC/VDC	0~440VAC/VDC
Rotating speed	0~300 RPM	Insulation Resistance	≥1000MΩ/500VDC	≥1000MΩ/500VDC
Working Temp.	-30°C~80°C	Lead Wire	waterproof wire	waterproof wire
Operating Humidity	0~85% RH	Lead Length	Standard Length 300mm(adjustable)	
Contact Material	silver-silver	Insulating Strength	500VAC@50Hz , 60s	
Housing Material	aluminum alloy, engineering plastic	Electric Noise	<0.01Ω	
Torque	0.5N.m ; +0.03N.m/6 rings			
Protection Grade	IP51~IP68			

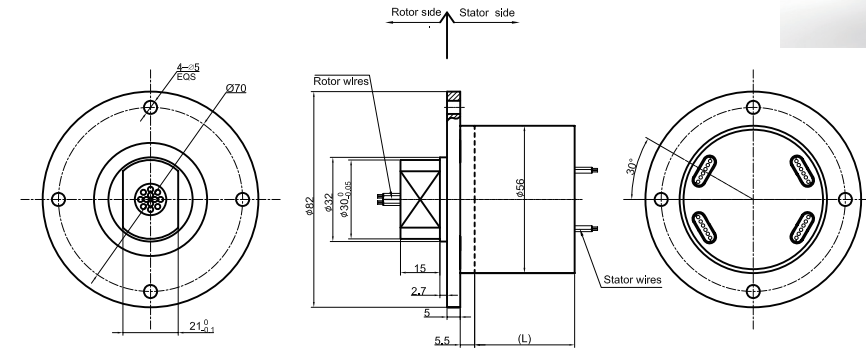
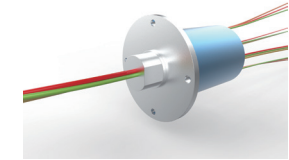
Options

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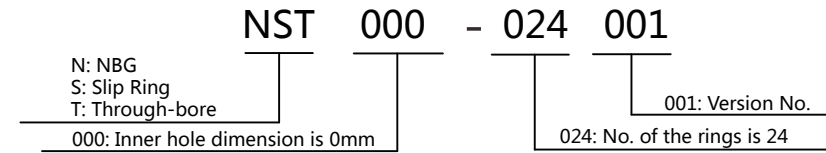
- * Cable exit way and cable length can be customized for both rotor and stator
- * Because of the structure limitation, length/height/OD can be customized for both rotor and stator
- * Support current or signal up to 200 rings
- * Optional aviation plug, terminal and heat-shrink tube
- * Hybrid slip ring for all brands of servo control signal, power line and encoder line
- * Support mixed high speed data transmission(including Ethernet, USB, RS232, RS485, Profibus, CanBUS, CANOPEN, DeviceNET, CC-LINK, ProfiNET, EtherCAT, etc)
- * Combine temperature control signal with thermocouple signal
- * Special environment can be customized, such as quakeproof, high temperature, etc.
- * Hybrid pneumatic/hydraulic and electric slip ring can be mixed
- * Up to 500 degrees high temperature
- * Up to 110KV high voltage
- * Up to 20000RPM rotating speed
- * Maximum current can be up to 5000A
- * Military grade
- * Optional waterproof and underwater mode
- * Optional IP68
- * Optional C5 anti-corrosion grade
- * Optional stainless steel housing

NST000024005

Standard series waterproof slip ring with OD56mm , ID 0mm.



Part# Explanation



Part# List

Model	Rings No. (5A) *	Rings No. (10A) *	L (mm)	Model	Rings No. (5A) *	Rings No. (10A) *	L (mm)
NST000006021	6	0	38	NST000006023	0	6	38
NST000006022	2	4	38	NST000006024	4	2	38
NST000012016	12	0	54.8	NST000012020	0	12	54.8
NST000012017	2	10	54.8	NST000012021	4	8	54.8
NST000012018	6	6	54.8	NST000012022	8	4	54.8
NST000012019	10	2	54.8	NST000018008	0	18	71.5
NST000018003	18	0	71.5	NST000018009	4	14	71.5
NST000018004	2	16	71.5	NST000018010	8	10	71.5
NST000018005	6	12	71.5	NST000018011	12	6	71.5
NST000018006	10	8	71.5	NST000018012	16	2	71.5
NST000018007	14	4	71.5	NST000024003	0	24	88.4
NST000024002	24	0	88.4	NST000024004	12	12	88.4
NST000024003	6	18	88.4	NST000024005	18	6	88.4

N rings 5A in parallel can be used as 1 channel N*5A. For example: 2 rings 5A in parallel can be used as 1 channel 10A
Contact the customer service if you have special requirements.

Specifications

Mechanical Data		Electrical Data		
Parameter	Value	Parameter	Value	
			Power	Signal
Lifetime	10~120 million revs	Rated Voltage	0~440VAC/VDC	0~440VAC/VDC
Rotating speed	0~300 RPM	Insulation Resistance	≥1000MΩ/500VDC	≥1000MΩ/500VDC
Working Temp.	-30°C~80°C	Lead Wire	AWG16#Teflon	AWG22#Teflon
Operating Humidity	0~85% RH	Lead Length	Standard Length 300mm(adjustable)	
Contact Material	silver-silver	Insulating Strength	500VAC@50Hz , 60s	
Housing Material	aluminum alloy, engineering plastic	Electric Noise	<0.01Ω	
Torque	1.0N.m ; +0.03N.m/6 rings			
Protection Grade	IP51~IP68			

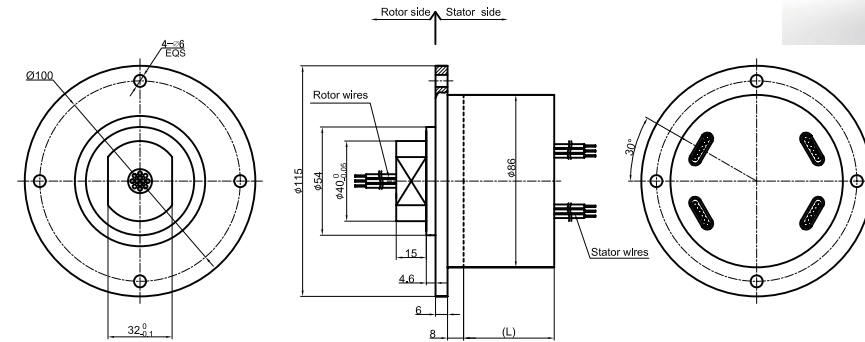
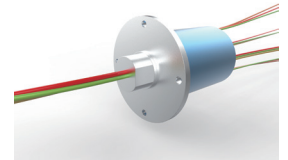
Options

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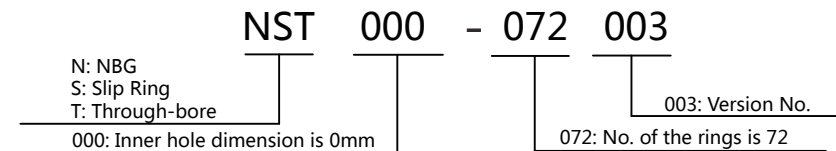
- * Cable exit way and cable length can be customized for both rotor and stator
- * Because of the structure limitation, length/height/OD can be customized for both rotor and stator
- * Support current or signal up to 200 rings
- * Optional aviation plug, terminal and heat-shrink tube
- * Hybrid slip ring for all brands of servo control signal, power line and encoder line
- * Support mixed high speed data transmission(including Ethernet, USB, RS232, RS485、 Profibus、 CanBUS、 CANOPEN、 DeviceNET、 CC-LINK、 ProfINET、 EtherCAT, etc)
- * Combine temperature control signal with thermocouple signal
- * Special environment can be customized, such as quakeproof, high temperature, etc.
- * Hybrid pneumatic/hydraulic and electric slip ring can be mixed
- * Up to 500 degrees high temperature
- * Up to 110KV high voltage
- * Up to 20000RPM rotating speed
- * Maximum current can be up to 5000A
- * Military grade
- * Optional waterproof and underwater mode
- * Optional IP68
- * Optional C5 anti-corrosion grade
- * Optional stainless steel housing

NST000072003

Standard series waterproof slip ring with OD86mm , ID 0mm.



Part# Explanation



Part# List

Model	Rings No. (5A) *	Rings No. (10A) *	L (mm)	Model	Rings No. (5A) *	Rings No. (10A) *	L (mm)
NST00006025	6	0	45.2	NST00006027	0	6	45.2
NST00006026	2	4	45.2	NST00006028	4	2	45.2
NST000012023	12	0	65.6	NST000012027	0	12	65.6
NST000012024	2	10	65.6	NST000012028	4	8	65.6
NST000012025	6	6	65.6	NST000012029	8	4	65.6
NST000012026	10	2	65.6	NST000018008	0	18	86
NST000018013	18	0	86	NST000018019	4	14	86
NST000018014	2	16	86	NST000018020	8	10	86
NST000018015	6	12	86	NST000018021	12	6	86
NST000018016	10	8	86	NST000018022	16	2	86
NST000018017	14	4	86	NST000024009	0	24	106.4
NST000024006	24	0	106.4	NST000024010	12	12	106.4
NST000024007	6	18	106.4	NST000030021	6	24	134
NST000024008	18	6	106.4	NST000036003	0	36	150.2
NST000030019	0	30	126.8	NST000036004	12	24	150.2
NST000030020	12	18	126.8	NST000042003	6	36	170.6
NST000036002	6	30	150.2	NST000048002	0	48	191
NST000042001	0	42	170.6	NST000048003	12	36	191
NST000042002	12	30	170.6	NST000060003	6	54	231.8
NST000048001	6	42	191	NST000072001	0	72	275.6
NST000060001	0	60	231.8	NST000072002	12	60	275.6
NST000060002	12	48	231.8	NST000072003	6	66	275.6

N rings 5A in parallel can be used as 1 channel N*5A. For example: 2 rings 5A in parallel can be used as 1 channel 10A
Contact the customer service if you have special requirements.

Specifications

Mechanical Data		Electrical Data		
Parameter	Value	Parameter	Value	
			Power	Signal
Lifetime	10~120 million revs	Rated Voltage	0~440VAC/VDC	0~440VAC/VDC
Rotating speed	0~300 RPM	Insulation Resistance	≥1000MΩ/500VDC	≥1000MΩ/500VDC
Working Temp.	-30°C~80°C	Lead Wire	AWG16#Teflon	AWG22#Teflon
Operating Humidity	0~85% RH	Lead Length	Standard Length 300mm(adjustable)	
Contact Material	silver-silver	Insulating Strength	500VAC@50Hz , 60s	
Housing Material	aluminum alloy, engineering plastic	Electric Noise	<0.01Ω	
Torque	1.0N.m ; +0.03N.m/6 rings			
Protection Grade	IP51~IP68			

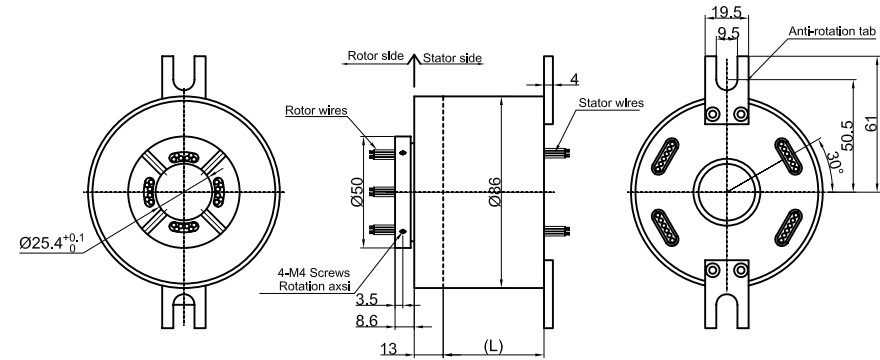
Options

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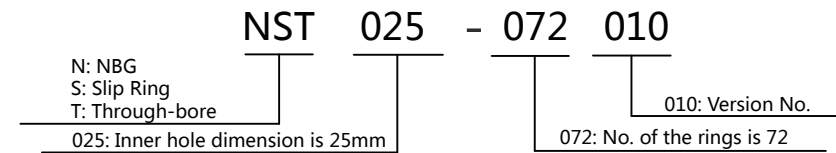
- * Cable exit way and cable length can be customized for both rotor and stator
- * Because of the structure limitation, length/height/OD can be customized for both rotor and stator
- * Support current or signal up to 200 rings
- * Optional aviation plug, terminal and heat-shrink tube
- * Hybrid slip ring for all brands of servo control signal, power line and encoder line
- * Support mixed high speed data transmission(including Ethernet, USB, RS232, RS485、 Profibus、 CanBUS、 CANOPEN、 DeviceNET、 CC-LINK、 ProfiNET、 EtherCAT, etc)
- * Combine temperature control signal with thermocouple signal
- * Special environment can be customized, such as quakeproof, high temperature, etc.
- * Hybrid pneumatic/hydraulic and electric slip ring can be mixed
- * Up to 500 degrees high temperature
- * Up to 110KV high voltage
- * Up to 20000RPM rotating speed
- * Maximum current can be up to 5000A
- * Military grade
- * Optional waterproof and underwater mode
- * Optional IP68
- * Optional C5 anti-corrosion grade
- * Optional stainless steel housing

NST025072010

Standard series waterproof slip ring with OD86mm , ID 25~26mm.



Part# Explanation



Part# List

Model	Rings No. (5A) *	Rings No. (10A) *	L (mm)	Model	Rings No. (5A) *	Rings No. (10A) *	L (mm)
NST025006030	6	0	45.2	NST025006032	0	6	45.2
NST025006031	2	4	45.2	NST025006033	4	2	45.2
NST025012043	12	0	65.6	NST025012047	0	12	65.6
NST025012044	2	10	65.6	NST025012048	4	8	65.6
NST025012045	6	6	65.6	NST025012049	8	4	65.6
NST025012046	10	2	65.6	NST025018047	0	18	86
NST025018042	18	0	86	NST025018048	4	14	86
NST025018043	2	16	86	NST025018049	8	10	86
NST025018044	6	12	86	NST025018050	12	6	86
NST025018045	10	8	86	NST025018051	16	2	86
NST025018046	14	4	86	NST025024031	0	24	106.4
NST025024028	24	0	106.4	NST025024032	12	12	106.4
NST025024029	6	18	106.4	NST025030022	6	24	134
NST025024030	18	6	106.4	NST025036015	0	36	150.2
NST025030020	0	30	126.8	NST025036016	12	24	150.2
NST025030021	12	18	126.8	NST025036017	6	36	170.6
NST025036014	6	30	150.2	NST025048021	0	48	191
NST025042010	0	42	170.6	NST025048022	12	36	191
NST025042011	12	30	170.6	NST025060015	6	54	231.8
NST025048020	6	42	191	NST025072008	0	72	275.6
NST025060013	0	60	231.8	NST025072009	12	60	275.6
NST025060014	12	48	231.8	NST025072010	6	66	275.6

N rings 5A in parallel can be used as 1 channel N*5A. For example: 2 rings 5A in parallel can be used as 1 channel 10A
Contact the customer service if you have special requirements.

Specifications

Mechanical Data		Electrical Data		
Parameter	Value	Parameter	Value	
			Power	Signal
Lifetime	10~120 million revs	Rated Voltage	0~440VAC/VDC	0~440VAC/VDC
Rotating speed	0~300 RPM	Insulation Resistance	≥1000MΩ/500VDC	≥1000MΩ/500VDC
Working Temp.	-30°C~80°C	Lead Wire	AWG16#Teflon	AWG22#Teflon
Operating Humidity	0~85% RH	Lead Length	Standard Length 300mm(adjustable)	
Contact Material	silver-silver	Insulating Strength	500VAC@50Hz , 60s	
Housing Material	aluminum alloy, engineering plastic	Electric Noise	<0.01Ω	
Torque	1.0N.m ; +0.03N.m/6 rings			
Protection Grade	IP51~IP68			

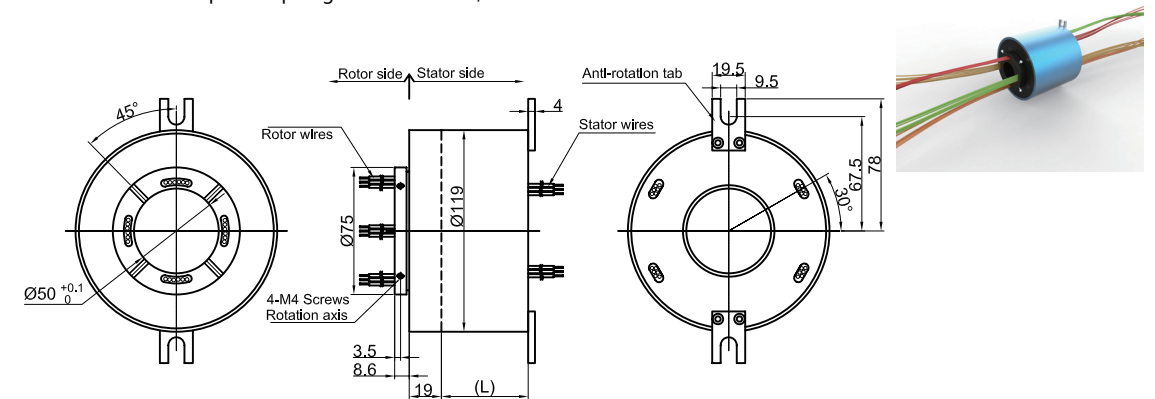
Options

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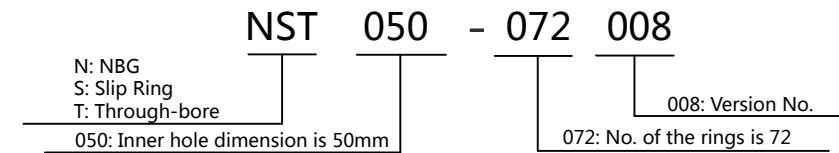
- * Cable exit way and cable length can be customized for both rotor and stator
- * Because of the structure limitation, length/height/OD can be customized for both rotor and stator
- * Support current or signal up to 200 rings
- * Optional aviation plug, terminal and heat-shrink tube
- * Hybrid slip ring for all brands of servo control signal, power line and encoder line
- * Support mixed high speed data transmission(including Ethernet, USB, RS232, RS485, Profibus, CanBUS, CANOPEN, DeviceNET, CC-LINK, ProfiNET, EtherCAT, etc)
- * Combine temperature control signal with thermocouple signal
- * Special environment can be customized, such as quakeproof, high temperature, etc.
- * Hybrid pneumatic/hydraulic and electric slip ring can be mixed
- * Up to 500 degrees high temperature
- * Up to 110KV high voltage
- * Up to 20000RPM rotating speed
- * Maximum current can be up to 5000A
- * Military grade
- * Optional waterproof and underwater mode
- * Optional IP68
- * Optional C5 anti-corrosion grade
- * Optional stainless steel housing

NST050072008

Standard series waterproof slip ring with OD86mm , ID 50~51mm.



Part# Explanation



Part# List

Model	Rings No. (5A) *	Rings No. (10A) *	L (mm)	Model	Rings No. (5A) *	Rings No. (10A) *	L (mm)
NST050006028	6	0	51.2	NST050006030	0	6	51.2
NST050006029	2	4	51.2	NST050006031	4	2	51.2
NST050012027	12	0	74	NST050012031	0	12	74
NST050012028	2	10	74	NST050012032	4	8	74
NST050012029	6	6	74	NST050012033	8	4	74
NST050012030	10	2	74	NST050018028	0	18	96.8
NST050018023	18	0	96.8	NST050018029	4	14	96.8
NST050018024	2	16	96.8	NST050018030	8	10	96.8
NST050018025	6	12	96.8	NST050018031	12	6	96.8
NST050018026	10	8	96.8	NST050018032	16	2	96.8
NST050018027	14	4	96.8	NST050024019	0	24	119.6
NST050024016	24	0	119.6	NST050024020	12	12	119.6
NST050024017	6	18	119.6	NST050030008	6	24	142.4
NST050024018	18	6	119.6	NST050036008	0	36	165.2
NST050030006	0	30	142.4	NST050036009	12	24	165.2
NST050030007	12	18	142.4	NST050042006	6	36	192
NST050036007	6	30	165.2	NST050048009	0	48	214.8
NST050042004	0	42	192	NST050048010	12	36	214.8
NST050042005	12	30	192	NST050060007	6	54	260.4
NST050048008	6	42	214.8	NST050072006	0	72	310
NST050060005	0	60	260.4	NST050072007	12	60	310
NST050060006	12	48	260.4	NST050072008	6	66	310

N rings 5A in parallel can be used as 1 channel N*5A. For example: 2 rings 5A in parallel can be used as 1 channel 10A
Contact the customer service if you have special requirements.

Specifications

Mechanical Data		Electrical Data		
Parameter	Value	Parameter	Value	
			Power	Signal
Lifetime	10~120 million revs	Rated Voltage	0~440VAC/VDC	0~440VAC/VDC
Rotating speed	0~300 RPM	Insulation Resistance	≥1000MΩ/500VDC	≥1000MΩ/500VDC
Working Temp.	-30°C~80°C	Lead Wire	AWG16#Teflon	AWG22#Teflon
Operating Humidity	0~85% RH	Lead Length	Standard Length 300mm(adjustable)	
Contact Material	silver-silver	Insulating Strength	500VAC@50Hz , 60s	
Housing Material	aluminum alloy, engineering plastic	Electric Noise	<0.01Ω	
Torque	1.0N.m ; +0.03N.m/6 rings			
Protection Grade	IP51~IP68			

Options

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

- * Cable exit way and cable length can be customized for both rotor and stator
- * Because of the structure limitation, length/height/OD can be customized for both rotor and stator
- * Support current or signal up to 200 rings
- * Optional aviation plug, terminal and heat-shrink tube
- * Hybrid slip ring for all brands of servo control signal, power line and encoder line
- * Support mixed high speed data transmission(including Ethernet, USB, RS232, RS485、 Profibus、 CanBUS、 CANOPEN、 DeviceNET、 CC-LINK、 Profinet、 EtherCAT, etc)
- * Combine temperature control signal with thermocouple signal
- * Special environment can be customized, such as quakeproof, high temperature, etc.
- * Hybrid pneumatic/hydraulic and electric slip ring can be mixed
- * Up to 500 degrees high temperature
- * Up to 110KV high voltage
- * Up to 20000RPM rotating speed
- * Maximum current can be up to 5000A
- * Military grade
- * Optional waterproof and underwater mode
- * Optional IP68
- * Optional C5 anti-corrosion grade
- * Optional stainless steel housing