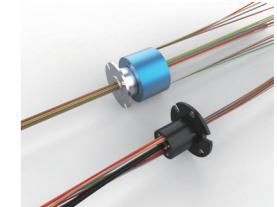


NSC Series – HD-SD1080P Slip Ring

NSC series HD-SDI slip ring is a high-end product which is specially designed to support high definition video signal 1080P. It can support max rate 2.5Gbps, also can combine with 1-24 circuits signal and weak current.



Features

- It deals with brushes for ultra-hard gold plating, which guarantees the low resistance fluctuation and long lifetime
- Mainly used for transmitting weak controlling signal for small and medium application, such as video, control, sensor, power, Ethernet, etc.
- Typical applications: HD security monitor, Photographic camera, HD camera

Model# List

Model	HD-SDI	Communication Rate	Current (2A)	Current (10A)	OD*L (mm)
NSC006001002	1 channel RG-179 (75Ω)	DC-3GHz	0	0	φ6.6*18
NSC024013001	1 channel RG-179 (75Ω)	DC-3GHz	12	0	φ24.8*29.6
NSC022017001	1 channel RG-179 (75Ω)	DC-3GHz	16	0	φ22.0*28.8
NSC032025001	1 channel RG-179 (75Ω)	DC-3GHz	24	0	φ32.8*46.71
NSC032031002	1 channel RG-179 (75Ω)	DC-3GHz	30	0	φ32.8*46.71
NSC056003009~ NSC056049005	1 channel RG-179 (75Ω)	DC-3GHz	1~24	1~24	φ56* (38~122)

Contact the customer service if you have special requirements.

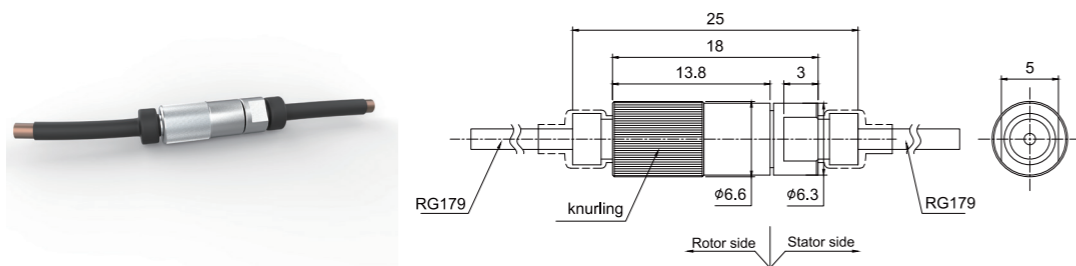
NSC HD-SDI Slip Ring

NSC high-definition slip ring supports 1 channel HD-SDI signal(coaxial-cable) + 12~30 circuits Signal(2A). NSC HD-SDI series slip ring is a high-end product which is specially designed to support high definition video signal 1080P. This series slip ring can support max rate 3GHZ, also can combine with 1~30 circuits signal and weak current.

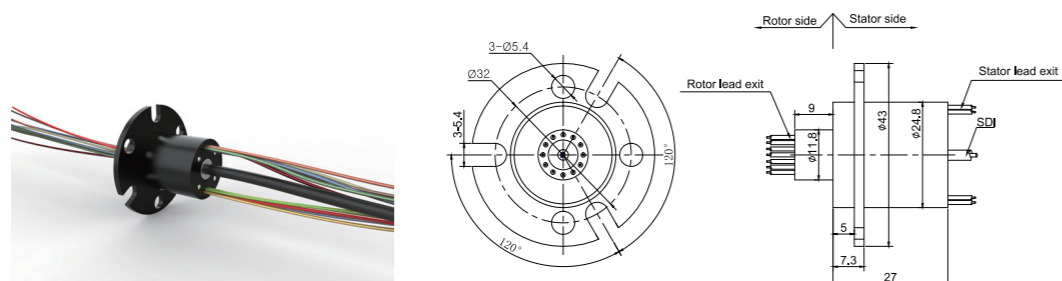
Features

- Adopts military-grade surface treatment, which can deal with brushes for hard gold plating, which guarantees the low resistance fluctuation and long lifetime
- Mainly used for transmitting weak controlling signal for small and medium application, such as video, control, sensor, power, Ethernet, etc.
- Typical applications: HD security monitor, Photographic camera, HD camera

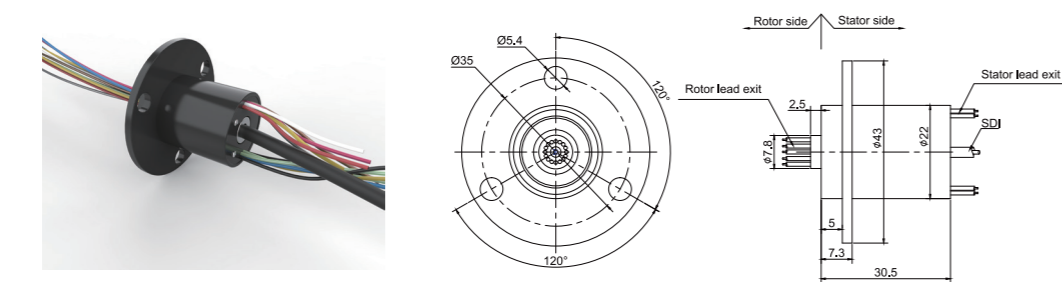
NSC006001002



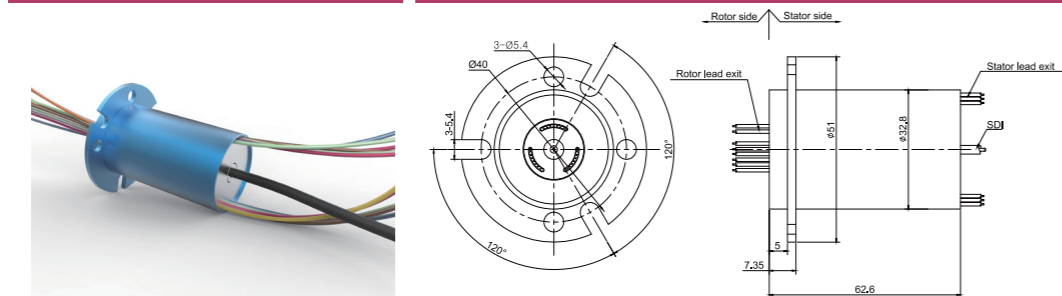
NSC024013001



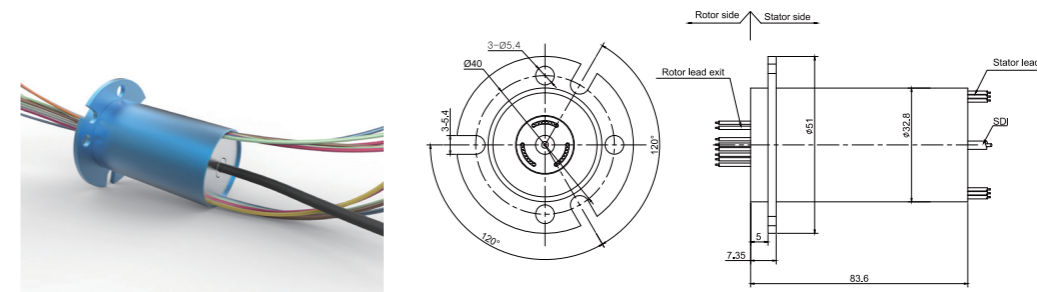
NSC022017001



NSC032025001



NSC032031002



Part# List

Model	HD-SDI	Communication Rate	Signal (2A) *	OD*L (mm)
NSC006001002	1* RG-179 (75Ω)	DC-3GHz	0	φ6.6*18
NSC024013001	1* RG-179 (75Ω)	DC-3GHz	12	φ24.8*29.6
NSC022017001	1* RG-179 (75Ω)	DC-3GHz	16	φ22.0*28.8
NSC032025001	1* RG-179 (75Ω)	DC-3GHz	24	φ32.8*46.71
NSC032031002	1* RG-179 (75Ω)	DC-3GHz	30	φ32.8*46.71

Specifications

Parameter	Value	Parameter	Value
Frequency	DC-3GHz	Insertion Loss	0.65dB/1GHz Max
Insertion Loss Typical	+/-0.05dB	Return Loss	-18 dB/1GHz Max
Input and Output	RG-179/U	Wave Ratio Typical	+/-0.05
Volt Standing Wave Ratio	VSWR≤1.3	Connector type	BNC/F
Impedance	75 ohms		

Mechanical Data		Electrical Data	
Parameter	Value	Parameter	Value
Lifetime	10~120 million revs	Rated Voltage	0~440VAC/VDC
Rotating Speed	250RPM	Insulation Resistance	≥1000MΩ/500VDC
Working Temp.	-30°C~80°C	Lead Wire	AWG28#Teflon (Customizable)
Working Humidity	0~85% RH	Lead Length	Standard length 300mm(Adjustable)
Contact Material	Gold-Gold	Insulation Strength	500VAC@50Hz , 60s
Housing Material	Engineering plastic	Electric Noise	<0.01Ω
Torque	0.1N.m ; +0.03N.m/6 rings		
Protection Grade	IP51~IP68		

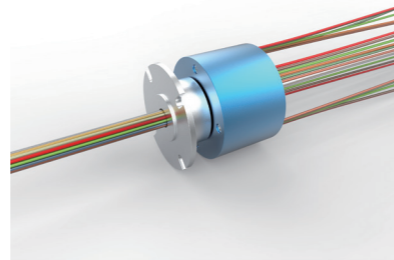
Lead Wires Color Code

Ring	1	2	3	4	5	6
Color	RED	WHT	BLU	BLK	YEL	GRY
Ring	7	8	9	10	11	12
Color	PUR	GRN	PNK	ORG	BRN	SLV

Contact the customer service if you have special requirements.

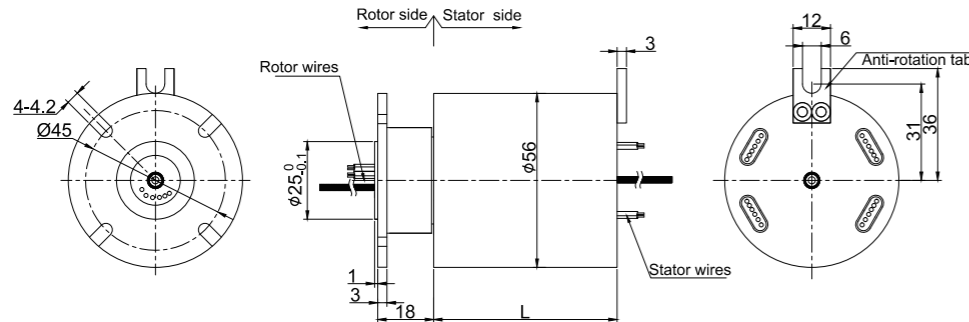
NSC056049005

NSC056 high-definition slip ring supports 1 channel HD-SDI signal (coaxial-cable) +1-48 circuit/circuits signal(2A). NSC series slip ring is a high-end product which is specially designed to support high-definition video signal 1080P. It can support max rate 2.33GHZ, also can combine with 1-30 circuit/circuits signal and power 10A or above.



Features

- Adopt military-grade surface treatment process which deals with brushes for hard gold plating, guarantee the low resistance fluctuation and long lifetime
- Mainly used for transmitting weak controlling signal for small and medium application, such as video, control, sensor, power, Ethernet, etc.
- Typical applications: HD security monitor, Photographic camera, HD camera



Part# List

Model	HD-SDI	Rings No. (10A) *	Rings No. (5A) *	L (mm)
NSC056003009	1xRG179(75Ω),2.3Ghz	0	2	26.8
NSC056003010	1xRG179(75Ω),2.3Ghz	2	0	26.8
NSC056004005	1xRG179(75Ω),2.3Ghz	0	3	29.6
NSC056004006	1xRG179(75Ω),2.3Ghz	3	0	29.6
NSC056007005	1xRG179(75Ω),2.3Ghz	0	6	38
NSC056007006	1xRG179(75Ω),2.3Ghz	2	4	38
NSC056007007	1xRG179(75Ω),2.3Ghz	4	2	38
NSC056007008	1xRG179(75Ω),2.3Ghz	6	0	38
NSC056013005	1xRG179(75Ω),2.3Ghz	0	12	54.8
NSC056013006	1xRG179(75Ω),2.3Ghz	2	10	54.8
NSC056013007	1xRG179(75Ω),2.3Ghz	3	9	54.8
NSC056013008	1xRG179(75Ω),2.3Ghz	6	6	54.8
NSC056013009	1xRG179(75Ω),2.3Ghz	8	4	54.8
NSC056013010	1xRG179(75Ω),2.3Ghz	10	2	54.8
NSC056013011	1xRG179(75Ω),2.3Ghz	12	0	54.8
NSC056019005	1xRG179(75Ω),2.3Ghz	0	18	71.5
NSC056019006	1xRG179(75Ω),2.3Ghz	2	16	71.5
NSC056019007	1xRG179(75Ω),2.3Ghz	4	14	71.5
NSC056019008	1xRG179(75Ω),2.3Ghz	6	12	71.5
NSC056019009	1xRG179(75Ω),2.3Ghz	8	10	71.5
Model	HD-SDI	Rings No. (10A) *	Rings No. (5A) *	L (mm)
NSC056019010	1xRG179(75Ω),2.3Ghz	10	8	71.5
NSC056019011	1xRG179(75Ω),2.3Ghz	12	6	71.5
NSC056019012	1xRG179(75Ω),2.3Ghz	14	4	71.5
NSC056019013	1xRG179(75Ω),2.3Ghz	16	2	71.5
NSC056025005	1xRG179(75Ω),2.3Ghz	0	24	88.4
NSC056025006	1xRG179(75Ω),2.3Ghz	4	20	88.4
NSC056025007	1xRG179(75Ω),2.3Ghz	6	18	88.4

NSC056025008	1xRG179(75Ω),2.3Ghz	12	12	88.4
NSC056025009	1xRG179(75Ω),2.3Ghz	18	6	88.4
NSC056025010	1xRG179(75Ω),2.3Ghz	24	0	88.4
NSC056031005	1xRG179(75Ω),2.3Ghz	0	30	105.2
NSC056031006	1xRG179(75Ω),2.3Ghz	2	28	105.2
NSC056031007	1xRG179(75Ω),2.3Ghz	4	26	105.2
NSC056031008	1xRG179(75Ω),2.3Ghz	6	24	105.2
NSC056037005	1xRG179(75Ω),2.3Ghz	0	36	122
NSC056037006	1xRG179(75Ω),2.3Ghz	4	32	122
NSC056037007	1xRG179(75Ω),2.3Ghz	6	30	122
NSC056043005	1xRG179(75Ω),2.3Ghz	0	42	138.8
NSC056043006	1xRG179(75Ω),2.3Ghz	4	38	138.8
NSC056049005	1xRG179(75Ω),2.3Ghz	0	48	155.6

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

Specifications

Parameter	Value	Parameter	Value
Frequency	DC-3GHz	Insertion Loss	0.65dB/1GHz Max
Insertion Loss Typical	+/-0.05dB	Return Loss	-18 dB/1GHz Max
Input and Output	RG-179/U	Wave Ratio Typical	+/-0.05
Volt standing Wave Ratio	VSWR≤1.3	Connector Type	BNC/F
Impedance	75 ohms		

Mechanical Data		Electrical Data		
Parameter	Value	Parameter	Value	
Lifetime	10~120 million revs	Rated Voltage	Power	Signal
Rotating Speed	250RPM	Insulation Resistance	0~440VAC/VDC	0~440VAC/VDC
Working Temp.	-30°C~80°C	Lead Wire	≥1000MΩ/500VDC	≥1000MΩ/500VDC
Working Humidity	0~85% RH	Lead Length	AWG28#Teflon (Customizable)	AWG28#Teflon (Customizable)
Contact Material	Gold-Gold	Insulation Strength	Standard length 300mm(Adjustable)	
Housing Material	Engineering plastic	Electric Noise	500VAC@50Hz , 60s	
Torque	0.1N.m ; +0.03N.m/6 rings		<0.01Ω	
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 for waterproof and underwater mode
- * Optional for IP68