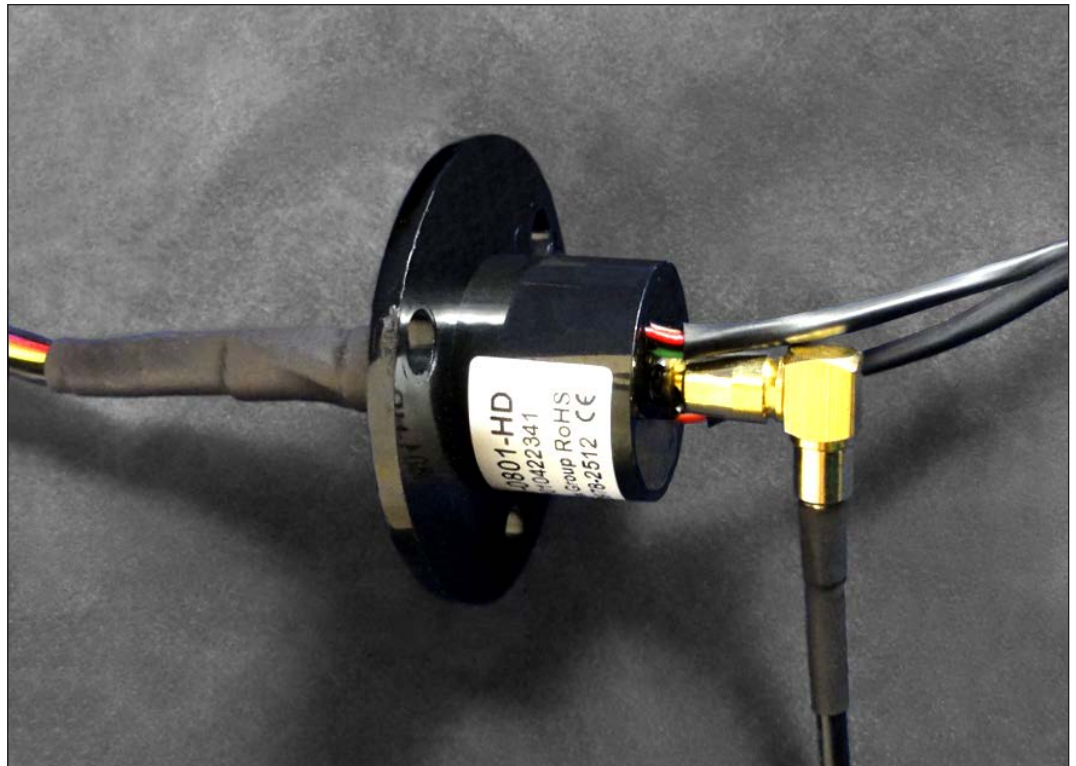




Orbex Group
Revolution In Motion



High Definition Video Transmission Slip rings

300-HD Series

- Broadcast Quality HD Video
- Compact Size
- Low Friction
- Long Life
- High Reliability
- Quick Delivery
- Low Cost
- Easily Customizable
- CE and RoHS Compliant

Orbex Group

46740 Lakeview Blvd.
Fremont, CA 94538
(408) 945-8980

www.orbexgroup.com

300-HD Series

The 300-HD series is an extension of the Orbex 300 series miniature capsule slip ring series. The HD series is designed to transfer non-compressed, broadcast quality, high definition video through a rotating joint. The slip ring can be used to transfer 1080p or 1080i HD-SDi video signals and has been tested to achieve data rates of 3 Gbps and higher.

The slip rings have a RF coaxial connector with 50 ohm specific impedance MMCX connectors on either RG178, RG316, or RG174 coaxial cable.

Common Applications

- HD Security Cameras
- Inspection Equipment
- Medical Equipment

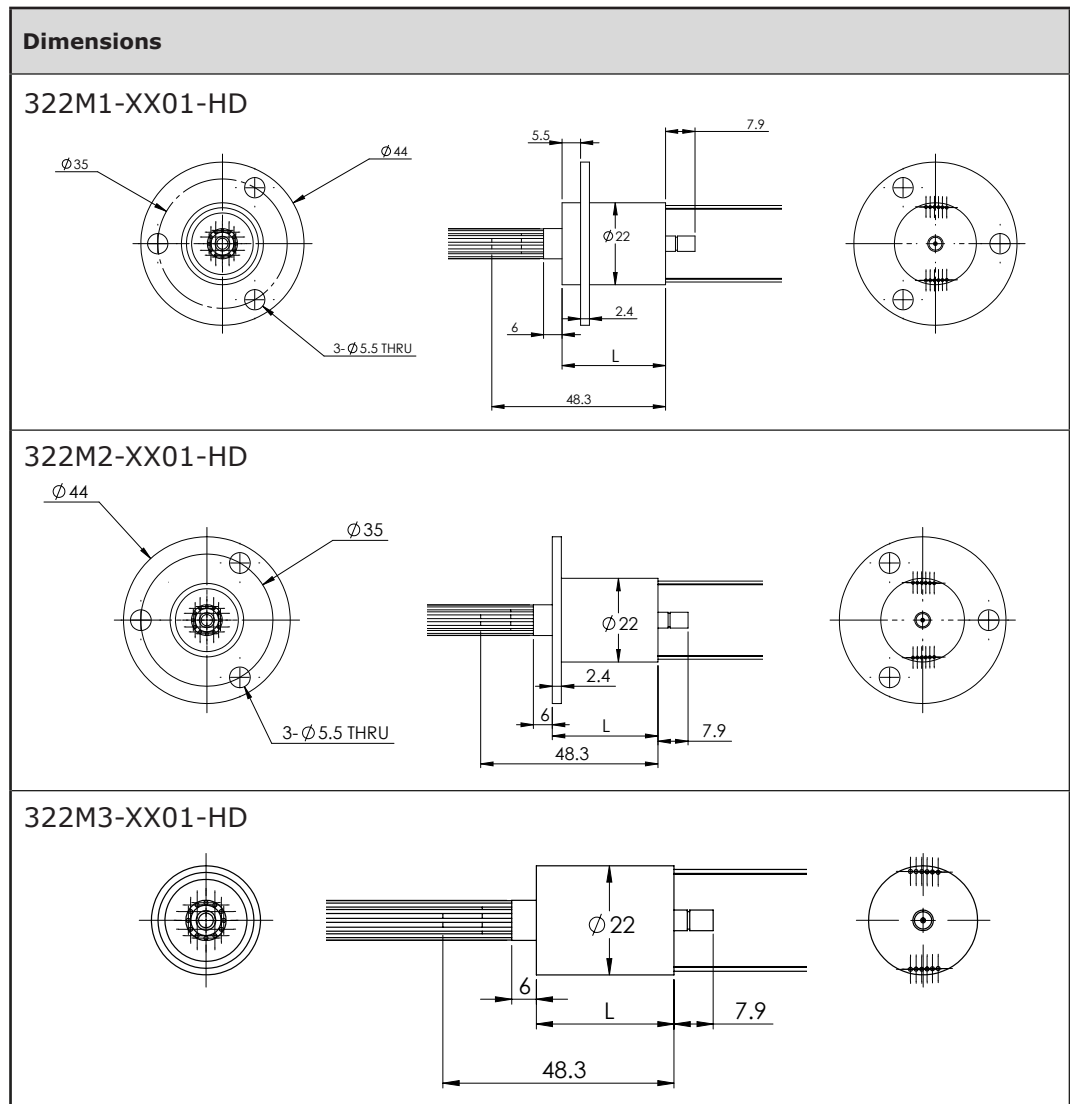
Specification for RF Channel	
Frequency Range	DC- 3 GHz
Transmission Rate	> 3 Gbps.
Specific Impedance	50 Ω
Cable Type	RG316 (optional RG174 or RG178)
Connector Type	MMCX standard, others options available custom
Specifications for Slip ring circuits	
Rated Voltage	240 V _{DC} /240 V _{AC}
Rated Current	2 A/ring
Cables	AWG26 FEP silver plated copper
Cable Length	250 mm standard
Dielectric Strength	500 V _{AC} @60Hz for 60 sec.
Insulation Resistance	500 M Ω /500 V _{DC}
Electrical Noise	< 10 m Ω
Mechanical Specifications	
Operating Speed	<100 rpm.
Temperature Range	-20° C to +80° C
Contact Material	Precious metal alloys
Bearing type	Precision double sealed ball bearings

300-HD Series High Definition Video Slip Rings

Part Number	Signal Circuits	RF Channels	Diameter	Length (L)
322MX-0801HD	8	1	22 mm	23.5 mm
322MX-1201HD	12	1	22 mm	28.2 mm
322MX-1801HD	18	1	22 mm	38.0 mm

X Denotes Flange Type. See drawings for details.
Please contact us for standard options, including:

- Custom connectors
- Alternative Coaxial cable options
- Custom units available with more circuits



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Please contact us for CAD drawings and Models