

Slip Ring Capsules (Compact)

AC6373

Compact slip ring capsule

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, commutator, collector, swivel or an electrical rotary joint.

The AC6373 miniature capsule provides up to 12, 2 amp rated contacts in a small, 1/2 inch diameter design. Color-coded lead wires are provided on both the rotor and stator to allow simplified electrical connections. Similar in design to our very popular AC6023 family, the AC6373 allows tremendous flexibility in dealing with system size restrictions. It is available in 6 and 12 circuit configurations.

Features

- 6 and 12 circuit models
- 2 amp, 120 VDC / VAC circuits
- Precision assembly to provide exceptional rotational life
- Speeds up to 100 rpm continuous
- Compact size 1/2 inch diameter, .58 inch or .83 inch long
- Gold-on-gold contacts
- Mounting flange on housing
- Flexible, color-coded, silver-plated, stranded copper lead wire
- Superior handling of low level control signals

Benefits

- Extremely compact
- Low torque
- Quick shipment
- High bandwidth transfer capability



Typical Applications

- CCTV pan / tilt camera mounts
- Medical equipment
- Robot end effectors
- Miniature cable reels
- Laboratory equipment

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Specifications	
Operating Speed	100 rpm* continuous
Number of Circuits	6 or 12
Lead Lengths**	12, 24, 36 and 48 inches
Lead Size / Type	26 (7 / 34) silver plated copper Type ET Teflon® insulated
Voltage	120 VDC ; 120 VAC
Max. Ambient Temp.	-40°C to +80°C
Contact Material	Gold
Current Rating	2 amps / circuit
Dielectric Strength	250 VAC @ 60 Hz, between each circuit and all other circuits
Insulation Resistance	1000 megohms @ 250 VDC
Noise	60 milliohms max. tested @ 6 VDC, 50 milliamps when running @ 5 - 15 rpm

AC6373 Lead Wire Color Codes			
Ring #	Color Code	Ring #	Color Code
#1	BLK	#7	BLU
#2	BRN	#8	VIO
#3	RED	#9	GRY
#4	ORN	#10	WHT
#5	YEL	#11	WHT-BLK
#6	GRN	#12	WHT-BRN

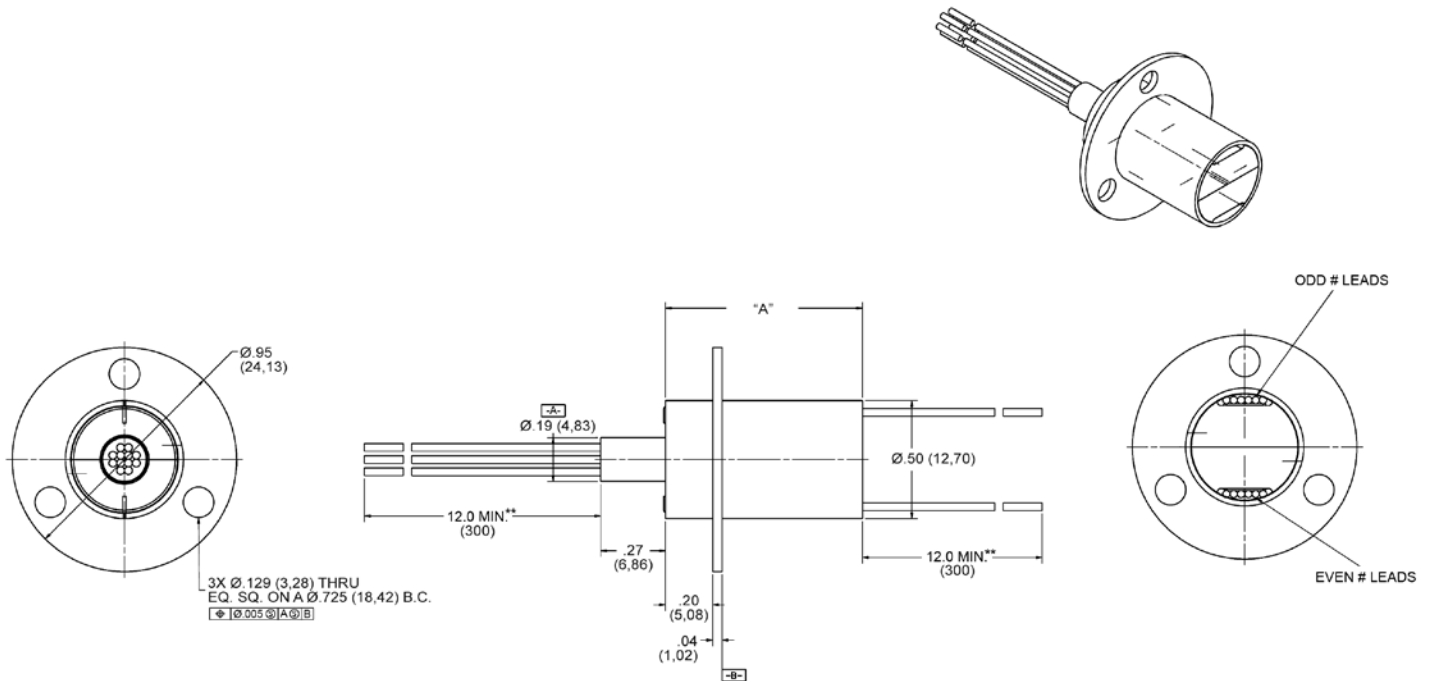
Part Number	Length
AC6373 - 6	.58 inch (14,7 mm)
AC6373 - 12	.83 inch (21,1 mm)

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

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"A" Dim.	Part No.
.58 inch (14,7 mm)	- 006
.83 inch (21,1 mm)	- 012

AC6373 Dimensions



Dimensions in inches (millimeters)