

AC6438

1/2 inch through-bore miniature slip ring capsule

Description

A slip ring capsule can be used in any electromechanical system that requires unrestrained, intermittent or continuous rotation while transferring power and / or data. A slip ring is also called a rotary electrical joint, collector, commutator or swivel. A slip ring can improve system performance by simplifying operations and eliminating damage prone wires.

The AC6438 provides an economical, readily available solution when a compact through-bore configuration is required. This unit provides a 1/2 inch through-bore for routing of hydraulic or pneumatic lines, and a compact 2.1 inch outside diameter and a very short overall length for minimal space applications. The AC6438 provides 5 amp circuits in 6, 12, 18 and 24 ring configurations. Similar in design to our very popular AC4598 and AC6200 series, this design features long life, fiber brush contact technology for ultimate performance in many challenging applications.

Features

- 1/2 inch through-bore
- Compact 2.1 inch outside diameter
- Speeds up to 250 rpm continuous
- Multiple circuit configurations
- Continuous rotation of power and / or data signals
- High-impact thermoplastic construction
- Gold plated rings

Benefits

- Transfers power, as well as analog and digital signals
- Compatible with data bus protocols
- Fiber brush technology provides long life and maintenance free operation
- Compact packaging



Typical Applications

- Precision rotary equipment
- Semiconductor handling systems
- Industrial machinery
- Robotics

Slip Rings With Through-Bores

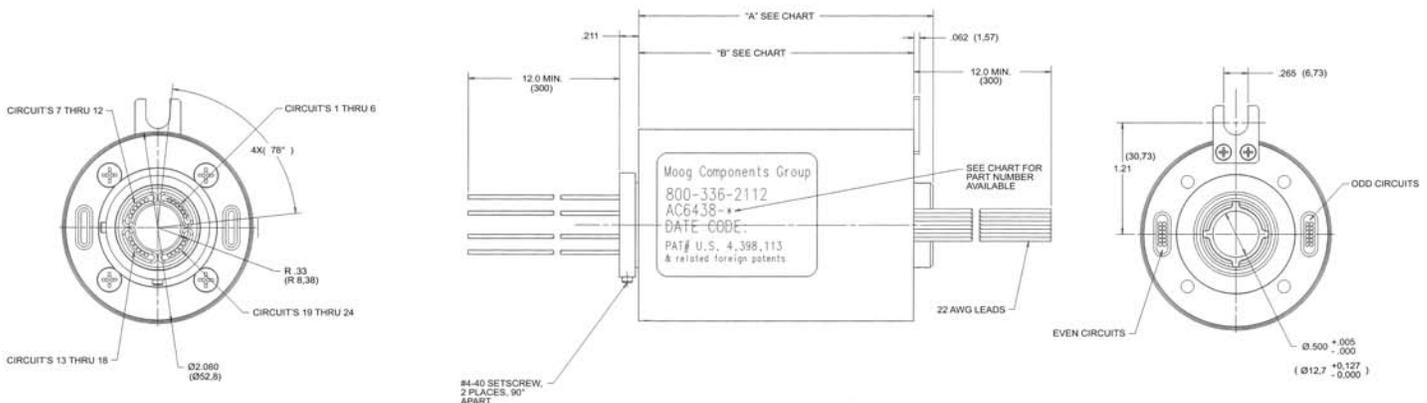
Specifications		Options
Operating Speed	250 rpm* continuous	<ul style="list-style-type: none"> • 24, 36 and 48 inch leads • Alternate lead exits
Number of Circuits	6, 12, 18 or 24	
Lead Length	12 inch standard	
Lead Size / Type	22 AWG, 7 strand	
Voltage	250 AC / DC	
Operating Temp.	-40°C to +80°C	
Current Rating	5 amps / circuit	
Electrical Noise	100 milliohms max. @ 6 VDC, 50 milliamps when running @ 5 rpm	

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

Wire Color Code					
Ring #	Color	Ring #	Color	Ring #	Color
1	BLK	9	GRY	17	WHT / BLU
2	BRN	10	WHT	18	WHT / VIO
3	RED	11	WHT / BLK	19	WHT / GRY
4	ORN	12	WHT / BRN	20	WHT / BLK / BRN
5	YEL	13	WHT / RED	21	WHT / BLK / RED
6	GRN	14	WHT / ORN	22	WHT / BLK / ORN
7	BLU	15	WHT / YEL	23	WHT / BLK / YEL
8	VIO	16	WHT / GRN	24	WHT / BLK / GRN

Part Number	AC6438-106	AC6438-112	AC6438-118	AC6438-124
Dimension "A"	1.75 inch ± .02 (44,45 mm ± 0,5)	2.31 inch ± .02 (58,67 mm ± 0,5)	2.87 inch ± .02 (72,90 mm ± 0,5)	3.42 inch ± .02 (86,87 mm ± 0,5)
Dimension "B"	1.33 inch ± .01 (33,78 mm ± 0,2)	1.89 inch ± .01 (48,01 mm ± 0,25)	2.44 inch ± .01 (61,98 mm ± 0,25)	3.00 inch ± .01 (76,20 mm ± 0,25)

AC6438 Dimensions



Dimensions in inches (millimeters)