

AC6876

3/8 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 AC6876 provides an economical, readily available solution when a compact through-bore configuration is required. This unit provides a 3/8 inch through-bore for shaft mounting, and a compact 1.25 inch outside diameter and a very short overall length for minimal space applications. The AC6876 provides 2 amp circuits in 18 ring configurations. This design features gold-on-gold contact technology for ultimate performance in many challenging applications.

Features

- 3/8 inch through-bore
- Compact 1.25 inch outside diameter
- Speeds up to 100 rpm continuous
- 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
- Compact packaging



Typical Applications

- Precision rotary equipment
- Semiconductor handling systems
- Robotics
- Camera systems

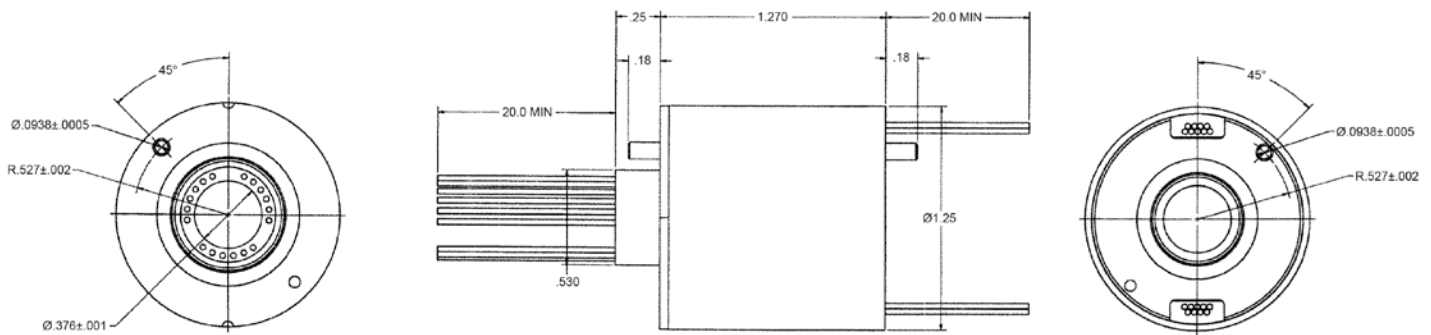
Slip Rings With Through-Bores

Specifications	
Operating Speed	100 rpm* continuous
Number of Circuits	18
Lead Length	20 inches
Lead Size / Type	26 AWG
Voltage	240 VAC
Operating Temp.	-40°C to +80°C
Contact Material	Gold
Current Rating	2 amps / circuit
Dielectric Strength	500 volts @ 60 Hz between each circuit and all other circuits
Insulation Resistance	1000 megohms @ 500 VDC
Electrical Noise	60 milliohms max. tested @ 6 VDC, 50 milliamps when running @ 5 to 15 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
1	BLK	10	WHT
2	BRN	11	WHT / BLK
3	RED	12	WHT / BRN
4	ORN	13	WHT / RED
5	YEL	14	WHT / ORN
6	GRN	15	WHT / YEL
7	BLU	16	WHT / GRN
8	VIO	17	WHT / BLU
9	GRY	18	WHT / VIO

AC6876 Dimensions



Dimensions in inches