

SRA-73683

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 SRA-73683 provides an economical, readily available solution when a compact through-bore configuration is required. This unit provides a 1/2 inch through-bore for shaft mounting, a compact 1.375 inch outside diameter and a very short overall length for minimal space applications. The SRA-73683 provides 2 amp circuits in 6, 12, 18 and 24 ring configurations.

Features

- 1/2 inch through-bore
- Compact 1.375 inch outside diameter
- Speeds up to 120 rpm continuous
- Continuous rotation of power and / or data signals

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

SRA-73683 Specifications

| | |
|--------------------|--------------------------------------|
| Operating Speed | 120 rpm* continuous |
| Number of Circuits | 6, 12, 18, 24 |
| Lead Length | 12, 24, 36 and 48 inches |
| Lead Size / Type | #26 AWG, Teflon® insulated, stranded |
| Voltage | 210 VAC |
| Operating Temp. | -40°C to +80°C |
| Contact Material | Gold |
| Current Rating | 2 A, per ring, max. |
| Electrical Noise | 40 milliohm max. @ max. speed |

*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 | 13 | WHT-RED |
| 2 | BRN | 14 | WHT-ORN |
| 3 | RED | 15 | WHT-YEL |
| 4 | ORN | 16 | WHT-GRN |
| 5 | YEL | 17 | WHT-BLU |
| 6 | GRN | 18 | WHT-VIO |
| 7 | BLU | 19 | WHT-GRY |
| 8 | VIO | 20 | WHT-BLK-BRN |
| 9 | GRY | 21 | WHT-BLK-RED |
| 10 | WHT | 22 | WHT-BLK-ORN |
| 11 | WHT-BLK | 23 | WHT-BLK-YEL |
| 12 | WHT-BRN | 24 | WHT-BLK-GRN |

| Part Number | Length "L" | Ring Qty. |
|--------------|----------------------|-----------|
| SRA-73683-6 | .82 inch (20,83 mm) | 6 |
| SRA-73683-12 | 1.12 inch (28,45 mm) | 12 |
| SRA-73683-18 | 1.42 inch (36,07 mm) | 18 |
| SRA-73683-24 | 1.72 inch (43,69 mm) | 24 |

SRA-73683 Dimensions

