

Miniature 6-Channel Capsule Slip Ring

This mini 6-channel capsule slip ring is a standard unit with gold contacts at the rotary interface. It features color-coded lead wires, double contacts, precision roller bearings, and 90°V-groove rings for smoother running and lower electrical noise.



Overview

Compact Signal Transmission Solution

This miniature 6-channel capsule slip ring is engineered for applications requiring continuous rotation while maintaining reliable electrical signal and power transmission. Featuring a compact design suitable for space-constrained environments, it utilizes double precision roller bearings to ensure low torque and extended operational life. It is an ideal solution for precision instrumentation, robotics, and medical equipment where consistent performance is critical.

Electrical Specifications

Channels	6 Ways
Voltage Rating	240V AC/DC
Current Rating	2 A/Ring
Insulation Resistance	1000M Ω @ 500DC
Dielectric Strength	AC250V @ 60Hz, 60S

Mechanical Specifications

Operating Speed	300 RPM
Lead Wire Type	AWG28 Silver plated copper, Type ET Teflon
Lead Length	250 mm

Environmental Specifications

Operating Temperature	-20°C to +80°C
Storage Temperature	-30°C to +90°C

Features & Options

Available Options

- Higher speed rating
- Metal shell enclosure
- Connector integration
- Heat-shrink tubing
- Custom lead wire length
- Various installation flanges

Key Features

Compact Design, Double Precision Bearings, Low Torque, Signal/Power Integration, Metal Shell

Applications

Typical Applications

CCTV Monitoring • Medical Equipment • Robotics • Laboratory Equipment