

AC2690 – Slip Ring

AC259 – Brush Block

Miniature slip ring separate assemblies

Description

Sometimes a self-contained “capsule” slip ring is not practical due to system size constraints or cost limitations. We can provide the slip ring (rotor) and brush block (stator) as separate components to be mated by the customer in their system. The rotor is supplied in a drum configuration which features consecutive individual rings along the axis of rotation. Miniature separates may have slip ring rotor diameters less than 0.100 inch.

A slip ring can be used in any electromechanical system that requires unrestrained, intermittent or continuous rotation while transmitting power and / or data. It can improve mechanical performance, simplify system operation and eliminate damage-prone wires dangling from movable joints.

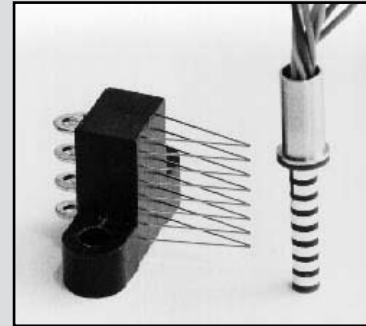
Options Available

Slip Ring

- Raised barrier (.110 diameter)
- V-groove (90°) in each ring





Brush Block

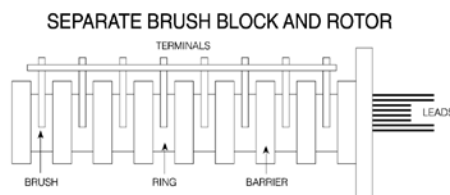
- Flying leads
- Gold or tin plated terminals



Typical Applications

- Instrumentation
- Displays and avionics
- Testing and measuring
- Custom machinery
- OEM machinery
- Missile weapon systems
- Rate javelin

OPTIONS	
RING GROOVE GEOMETRY	TYPE OF BRUSH
 <p>V-GROOVE</p>	 <p>WIRE</p>
 <p>RAISED BARRIER</p>	
 <p>FLAT BARRIER</p>	



Slip Ring Separate: AC2690

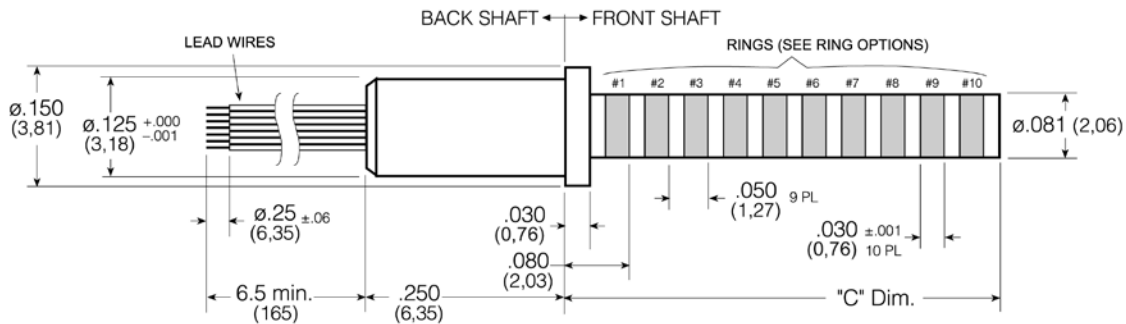
Materials:

- Contact surface - 24K nickel hardened gold
- Backshaft - 303 stainless steel
- Leads - #30 AWG silver plated copper, Teflon® insulated
- Dielectric - plastic (mineral filled epoxy)
- A voltage of 1000 V RMS 60Hz shall be applied between all circuits for a period of 10 seconds without breakdown

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Part #	# of Circuits	Dimension "C"
AC2690-1	1	0.100 inches (2,54 mm)
AC2690-2	2	0.150 (3,81)
AC2690-3	3	0.200 (5,08)
AC2690-4	4	0.250 (6,35)
AC2690-5	5	0.300 (7,62)
AC2690-6	6	0.350 (8,89)
AC2690-7	7	0.400 (10,16)
AC2690-8	8	0.450 (11,43)
AC2690-9	9	0.500 (12,7)
AC2690-10	10	0.550 (13,97)

Lead Wire	Color Codes
#1	Brown
#2	Red
#3	Orange
#4	Yellow
#5	Green
#6	Blue
#7	Violet
#8	Gray
#9	White
#10	Black



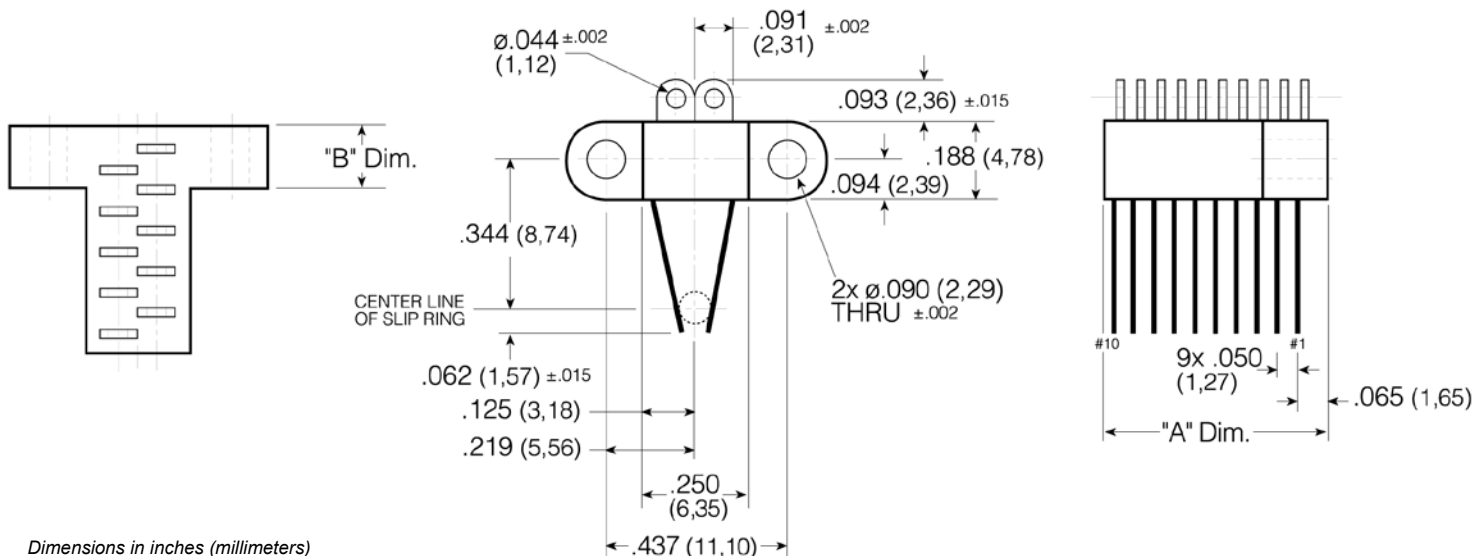
Note: For optimal life and performance, ring and brush contact areas should be lubed.

Brush Block Separate: AC259

Materials:

- Brushes - palladium alloy (ASTM B540) (.007 dia.)
- Plastic - polyester
- Terminals - .015 thick brass, silver (gold or tin optional) plated
- Flying leads optional
- A voltage of 1000V RMS 60Hz shall be applied between all circuits for a period of 10 seconds without breakdown
- Brush contact pressure approx. 5 grams when positioned on .081 dia. ring (AC2690-)

Part #	# of Circuits	Dimension "A"	Dimension "B"
AC259-1	1	0.100 inches (2,54 mm)	0.100 inches (2,54 mm)
AC259-2	2	0.140 (3,56)	0.140 (3,56)
AC259-3	3	0.190 (4,83)	0.156 (3,96)
AC259-4	4	0.240 (6,10)	0.156 (3,96)
AC259-5	5	0.290 (7,37)	0.156 (3,96)
AC259-6	6	0.340 (8,64)	0.156 (3,96)
AC259-7	7	0.390 (9,91)	0.156 (3,96)
AC259-8	8	0.440 (11,18)	0.156 (3,96)
AC259-9	9	0.490 (12,45)	0.156 (3,96)
AC259-10	10	0.540 (13,72)	0.156 (3,96)



Dimensions in inches (millimeters)