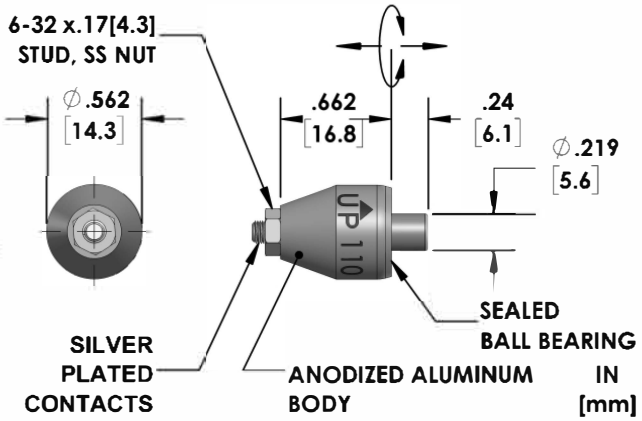
Model 110

One Conductor,
10 Amp



Mounts at the end of a rotating axis.
Mount by the press fit receptacle accessory.
Wire attaches using the accessory receptacle or cap.
This model is designed to mount at the bottom of a vertical rotating shaft.

Model No.	Terminals	Voltage AC/DC	Max Amp Rating	Max. Freq. MHz	Contact Resistance	Max. RPM	Temp Max. F (C) / Min. F (C)	Rotation Torque (gm-cm)	Circuit Separation
110	1	N/A	10	200	<1mΩ	3600	140 (60) /-20(-29)	35	N/A
110-SS	1	N/A	10	200	<1mΩ	3600	140 (60) /-20(-29)	35	N/A
110-L	1	N/A	10	200	<1mΩ	**1200**	140 (60) /-20(-29)	**10**	N/A

"SS" designator indicates stainless steel ball bearing (recommended for wet or corrosive environments)
"L" designator indicates low torque
Note: The anodized aluminum housing of the 110 series Mercotac is electrically "hot" to the internal conductor.

Model 110 Accessories

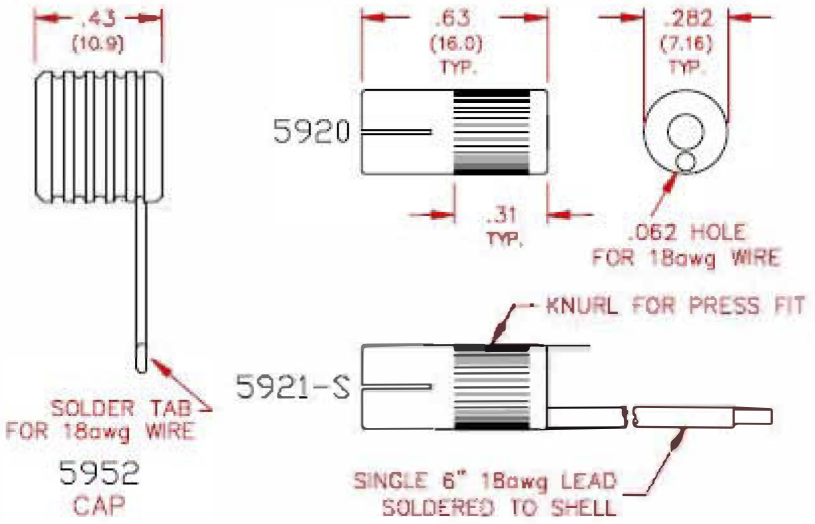
5920
one contact receptacle

5921-S
one contact receptacle
w/ 6" wire

5952
one contact cap
w/solder lug

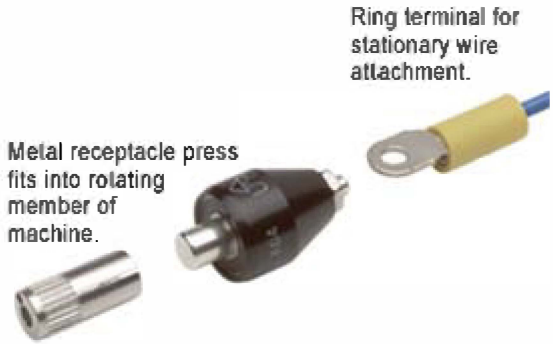
55337
ring terminal (12-10 AWG)

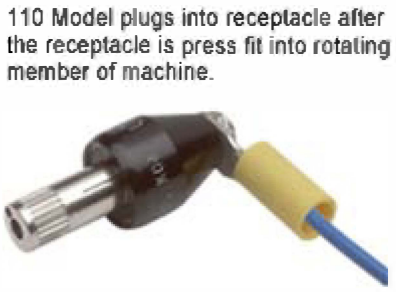
Receptacle used for mounting to rotating device.
Accessories are required for wire connections. Order Separately.



SINGLE CONDUCTOR ACCESSORIES

Model 110 Connections





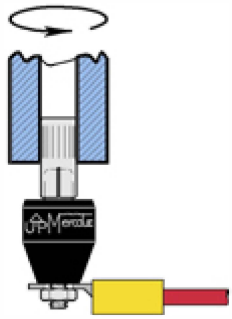
Note: The metal receptacle used for mounting is electrically conductive. Therefore, if desired, it can be used as the electrical connection between the 110 and the rotating member of the machine using Part #5920. However, if an insulated mounting at the rotating member is being used, then Part #5921-S with six inch wire lead is used for the electrical connection.

Model 110 Suggested Mounting Methods

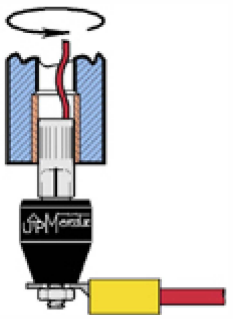
Model 110 is typically mounted by the knurled metal receptacle, which is press-fit into the rotating member of the machine. When mounting horizontally, use the similar model 110-T instead to be able to mount the Mercotac rotary connector so that the body of the connector rotates.

Receptacle Mount Hole Dimensions

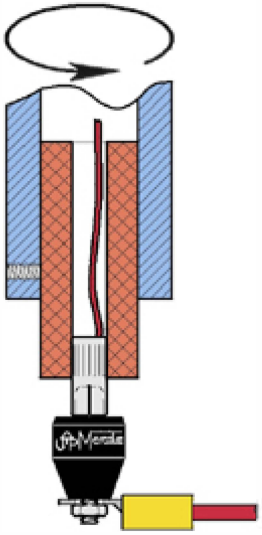
MODEL	HOLE DIAMETER (Ø) *	DEPTH
5920, 5921-S	.283" (7.19)	.35" (8.89)
*Inch (mm) Tolerance Ø	+.001" (+.025) -.000" (-.000)	



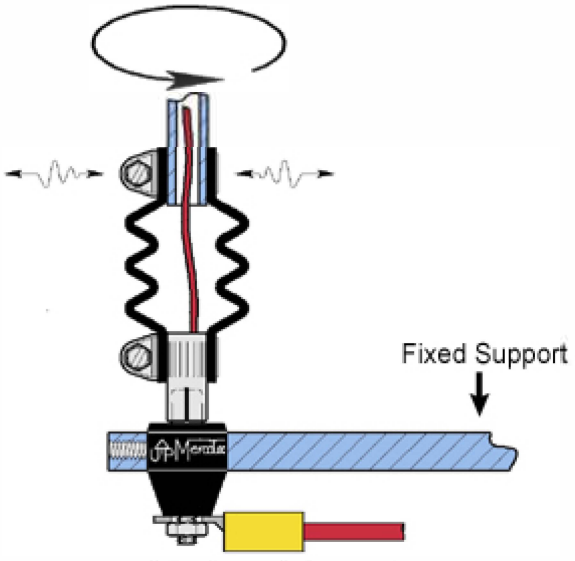
Conductive shaft mount.



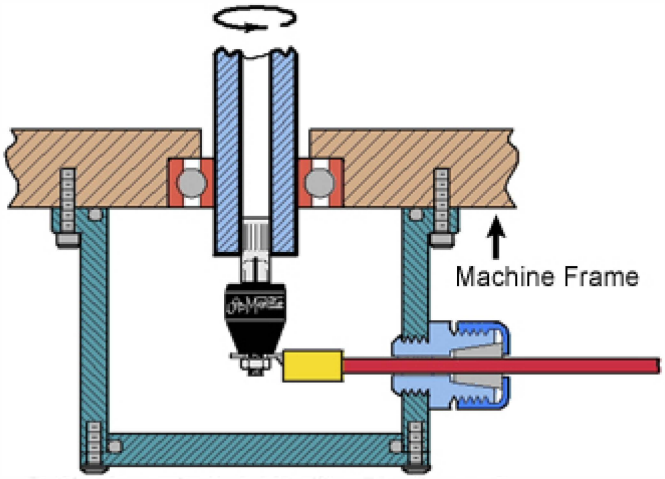
Insulated shaft mount.



Thermal and electrically insulated mount.



Vibration isolating mount.



Protective housing mount with conductive shaft.

Installation Notes:

- the up arrow should not point below horizontal
- do not solder to or bend connector tabs
- avoid lateral forces and mechanical loads (overly stiff or tight wires)
- do not rigid mount both ends of connector
- limit mounting eccentricity (runout / wobble) to .005" (.13mm)
- provide overload protection within the circuit
- avoid vibration and bumping motions