SERVICE INSTRUCTIONS

Mercotac® connectors contain a small amount of liquid mercury and should be disposed of properly through recycling. Mercotac, Inc. offers a recycling service for this purpose. When shipping spent units to Mercotac Inc., insert products into a plastic bag and package items being returned for UPS Ground shipment. Please state on paperwork "For Recycling", and identify shipments with company name and Phone / FAX numbers. (Do not send through USPS.)

- 1. Mercotac® connectors can be used both horizontally and vertically. However the "UP" arrow on the body of the connector should not point below horizontal. It is preferable to store units upright (arrow up). <Fig 1>
- 2. The connector can be held or mounted by the body or the receptacle <Fig 2>, and was not designed to carry mechanical loads. One end should be allowed to float, attached only by the connecting wires. In horizontal applications mount the connector with the body rotating to reduce mechanical loads on the bearing. (Model 110 may be excepted). There is a spring tension fit between the cap or receptacle and the contacts. The cap is usually mounted to the bearing end. <Fig 3>. Never rigid mount both ends of the connector. This will cause connector failure. Limit mounting eccentricity to .005" (.13mm).
- 3. The connectors are reversible (except model 110), so they need not be installed upside down <Fig 4>.
- 4. Do not solder to the connector as such misuse may cause connector failure and voids the warranty.
- 5. Use stranded wires of ample length and flexibility to avoid mechanical loads. Avoid taut wires that pull on the connector. The wires should have enough free play to allow the connector end to rotate approximately 1/4 turn. Wires that allow too much free play could wrap around the connector.
- 6. Provide current protection (fuse) on wires attached to Over-current conditions can cause failure of connector. The aluminum body may be **CAUTION:** connector. electrically "hot" after failure. Disable power source before handling a suspected failed connector.
- 7. The connector contains plastic materials that are sensitive to heat. Over-heating will cause reduced life or connector failure. Provide thermal insulation where necessary to prevent temperature of the unit from exceeding 140°F (60°C). <Fig 5>
- 8. Vibration and mechanical shock will reduce life or cause connector failure. Some installations may require a shock isolating mounting, such as rubber tubing. <Fig 6>

9. In food and packaging applications:

Mercotac® connectors contain liquid mercury and other fluids. Isolate connector from the food processing area by using a protective housing. Short circuit failure at or in connection with a Mercotac® connector rarely but occasionally may result in leakage. The use of a protective housing may be advisable in these applications. <Fig 7>





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DIMENSION	"A" +.001(.025)	.35±.02 (8.9±.5)
MODEL	HOLE SIZE	
105		
110	.283(7.19)	— - д
205		
305	.408(10.36)	\ \ <u>\</u>

Fig 1

Fig 2 Receptacle press-fit Dimensions

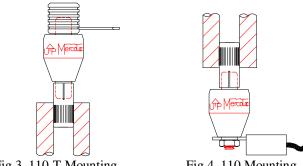


Fig 3 110-T Mounting

Fig 4 110 Mounting

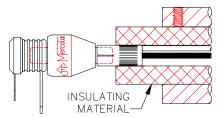


Fig 5 Thermal Insulation

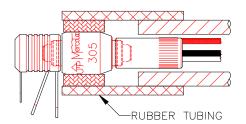


Fig 6 Vibration Isolation

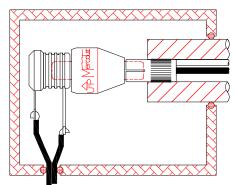
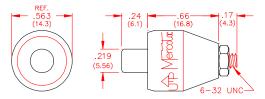


Fig 7 Protective Housing

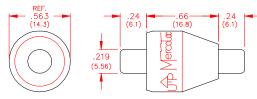
COAX SERIES

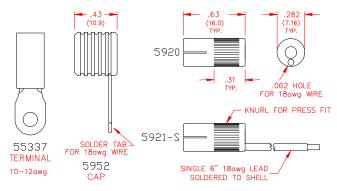




ORDER ACCESSORIES SEPARATELY

MODEL 110-T & 105 1 pole





SINGLE CONDUCTOR ACCESSORIES

TOLERANCES x.xxx (x.xx) ±0.001 (±0.025) INCHES (mm) x.xx (x.x) ±0.010 (±0.25)

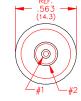
WARRANTY: Units are guaranteed for one year from date of purchase against defective materials and workmanship. Replacement will be made except for defects caused by abnormal use or mishandling. All statements and technical information contained herein, or presented by the manufacturer or his representative are rendered in good faith. User must assume responsibility to determine suitability of the product for intended use. The manufacturer shall not be liable for any injury, loss or damage, direct or consequential arising out of the use, or attempt to use the product.

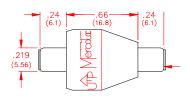
MODEL 205 2 pole

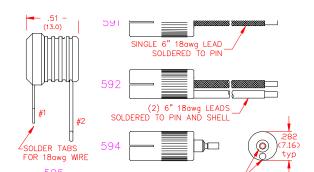
ORDER

ACCESSORIES

SEPARATELY

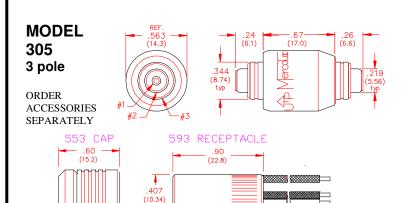






TWO CONDUCTOR ACCESSORIES

FOR 18awg WIRE



THREE CONDUCTOR ACCESSORIES

(3) 6" 18awg LEADS SOLDERED TO

PIN AND SHELLS

TECHNICAL SPECIFICATIONS								
SPECIFICATIONS	MODEL NUMBER							
	105	110 /-T	110-L/TL	205	205-Н	205-L	305	
CONDUCTORS	1				2		3	
VOLTAGE RANGE (V) AC/DC	n/a			0 - 250				
CURRENT RATING (A @ 240VAC)	4 10			4				
MAXIMUM FREQUENCY (MHz)	200							
MERCURY CONTACT RESISTANCE	< 1 milliohm							
MAXIMUM ROTATING SPEED (RPM)	7500	3600	1200	2000	3600	1200	1800	
MAXIMUM BODY TEMPERATURE °F (°C)	212 (100) 140 (60)							
MINIMUM OPERATING TEMP. °F (°C)	45 (7)	-20 (-29)		45 (7)		-20 (-29)	45 (7)	
CIRCUIT SEPARATION	n/a			> 25 megohm				
TYP. ROTATIONAL TORQUE (NmX10-4)	< 10	35	10	75	35	20	100	

ZSOLDER TARS