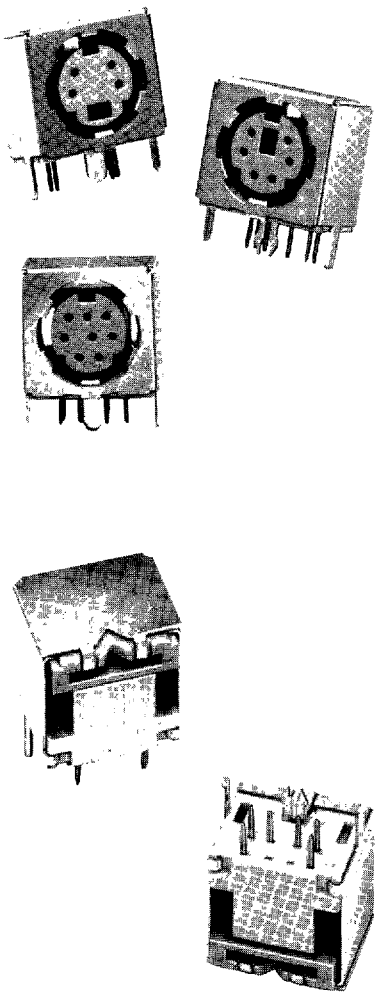
Circular Mini DIN Super-Shielded Sockets

Right Angle
PCB Mounted



Features

- Improved design maximizes shielding and saves space
- Designed in six connector sizes: 3, 4, 5, 6, 7 and 8 position
- Sockets have right angle solderable tails for mounting to PC board
- Phosphor bronze contacts post-plated with gold over nickel in the mating area and tin/lead over nickel in the tail area for more reliable interconnect
- Tail aligner positions contacts for reliable insertion into PCB
- Solderable grounding tabs maintain electrical continuity between cable shield and PC board
- "Super-Shielding" on front face of sockets helps reduce EMI/RFI/ESD
- Boardlocks provide mechanical hold-down during wave soldering processes
- Compatible with defacto industry Standard Mini-Din Plugs (also available from Cinch)
- Provides locking window
- Suitable for robotic assembly
- Parts marked with date code
- Standard OEM packaging consists of plastic tubes

Performance Data

Materials

Insulation Material: UL 94V-0 rated glass-filled polyester; black on front face; platinum color on base

Contact Material: Phosphor bronze

Contact Plating: 30 µinch (0.76 micron) min. gold over nickel in mating area; tin/lead over nickel on tails.

Gold flash over nickel in mating area for econo-version; tin/lead over nickel on tails.

Shield:
Material: Phosphor bronze
Plating: Tin lead all over

Electrical Characteristics

Dielectric Strength: 250 VAC rms (@ sea level) for 1 minute without breakdown

Contact Rating:
2 Amps at 12 VDC
1 Amp at 100 VAC

Contact Resistance: 30 milliohm max.

Insulation Resistance: 50 megohms min.

Designed to satisfy UL/CSA requirements for safety

Designed to help satisfy FCC emission requirements

Mechanical Characteristics

Durability: Withstands minimum 500 mating/unmating cycles

Mating Force: 9.9 lbs. max. (4.5kg max.)

Unmating Force: 2.0 lbs. min. (0.9kg min.)

Individual Contact Insertion and Separation Forces:
Insertion: 17.6 oz. max. (500 g max.)
Extraction: 0.75 oz. min. (21 g min.)

Solderability: Meets MIL-STD-202; Method 208

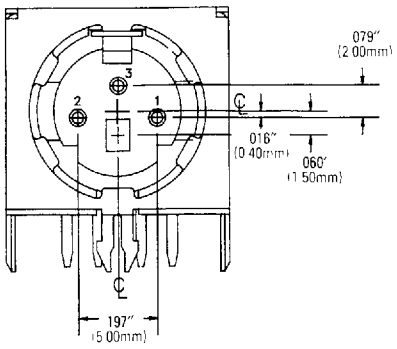
Environmental Characteristics

Moisture Resistance: 48 hrs. at 90–95% RH at 40°C

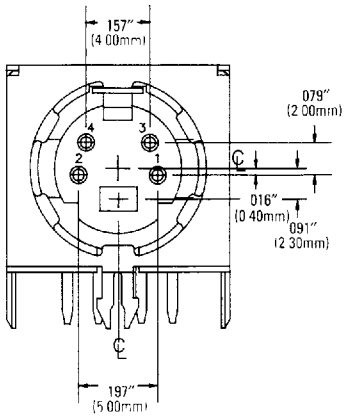
Heat Resistance: 196 hrs. at 100°C

Salt Spray: Meets MIL-STD-202; Method 101D; Condition D

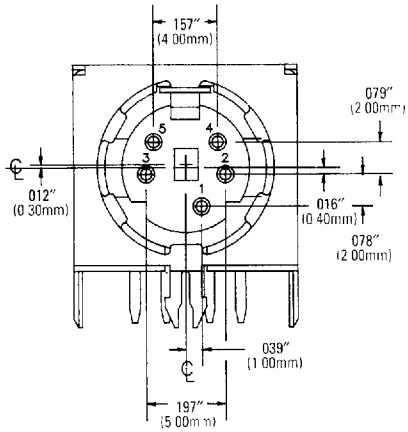
Dimensions



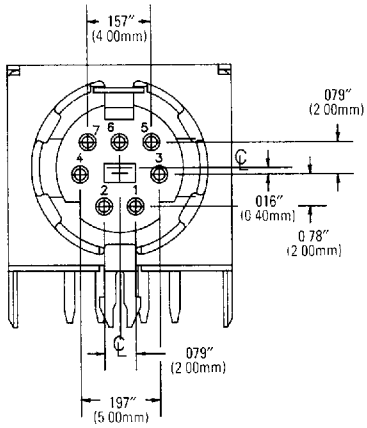
3 Position



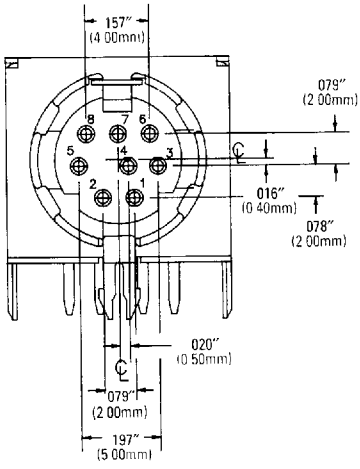
4 Position*



5 Position



7 Position



8 Position*

*NOTE Dimensions shown are for standard 4 and 8 position sockets Dimensions for the Custom Special Products (Part Numbers 254-84-04-012 and 254-84-08-012) incorporate the following changes

4 Position:
Footprint is .260" instead of .267"
Front face uses .101" instead of .091"

8 Position:
Footprint is modified
(see Sales Drawing)
Front face uses .016" instead of .020"

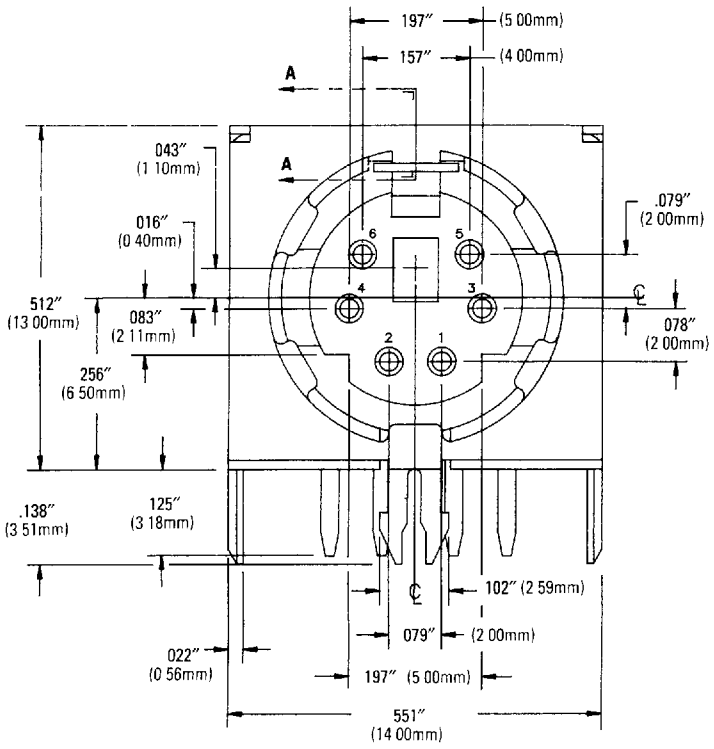
Both 4 and 8 Position:
Front face is platinum color
Base is black.

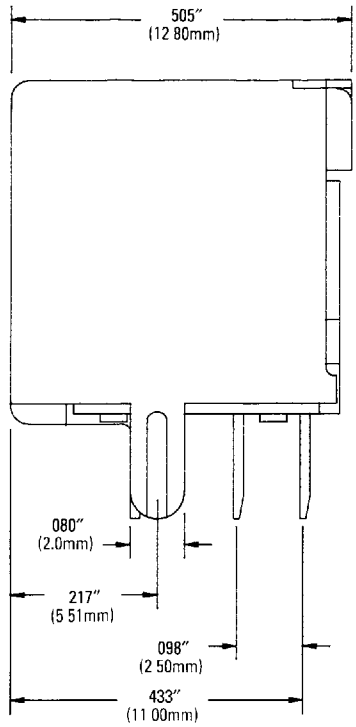
Circular Mini DIN Super-Shielded Sockets

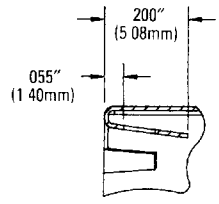
Right Angle PCB Mounted

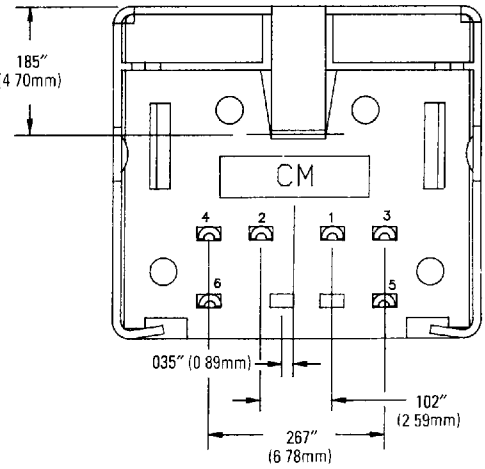
Dimensions

6 Position Socket Shown









Econo Version

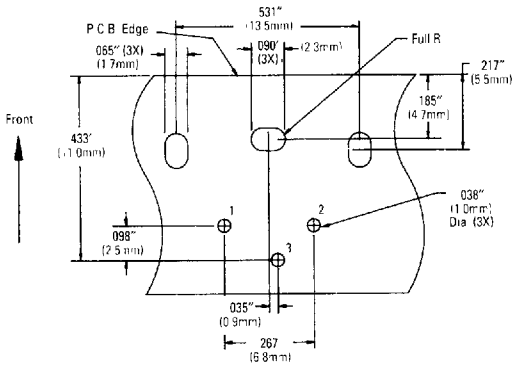
	Straight Leg Mounting Dimensions		Dog Leg Mounting Dimensions	
Size	Part Number	Factory Code	Part Number	Factory Code
3	MDSSE-3S	254-84-03-100	MDSSE-3DLS	254-84-03-101
4	MDSSE-4S	254-84-04-100	MDSSE-4DLS	254-84-04-101
5	MDSSE-5S	254-84-05-100	MDSSE-5DLS	254-84-05-101
6	MDSSE-6S	254-84-06-100	MDSSE-6DLS	254-84-06-101
7	MDSSE-7S	254-84-07-100	MDSSE-7DLS	254-84-07-101
8	MDSSE-8S	254-84-08-100	MDSSE-8DLS	254-84-08-101

Ordering Information

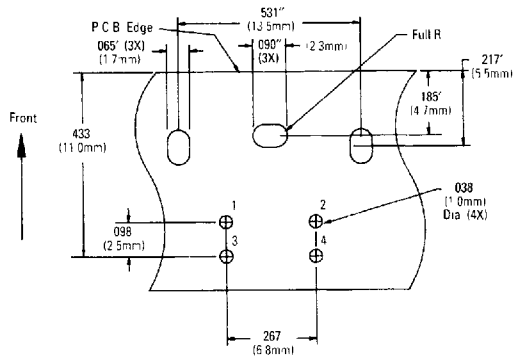
	Standard Dimensions (See Drawings)		Dog Leg Mounting Dimensions		Custom Special Dimensions (See note previous page)	
Size	Part Number	Factory Code	Part Number	Factory Code	Part Number	Factory Code
3	MDSS-3S	254-84-03-010	MDSS-3DLS	254-84-03-013	—	—
4	MDSS-4S	254-84-04-010	MDSS-4DLS	254-84-04-013	MDSS-4CS	254-84-04-012
5	MDSS-5S	254-84-05-010	MDSS-5DLS	254-84-05-013	—	—
6	MDSS-6S	254-84-06-010	MDSS-6DLS	254-84-06-013	—	—
7	MDSS-7S	254-84-07-010	MDSS-7DLS	254-84-07-013	—	—
8	MDSS-8S	254-84-08-010	MDSS-8DLS	254-84-08-013	MDSS-8CS	254-84-08-012

Recommended Layouts for Footprints

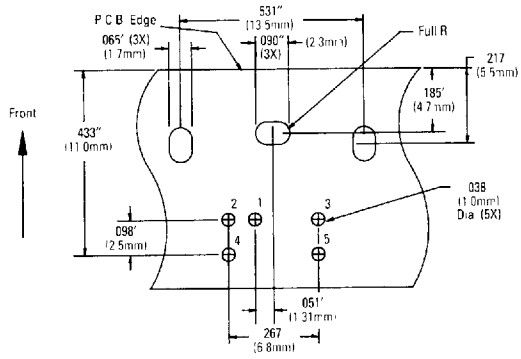
(Component side shown)



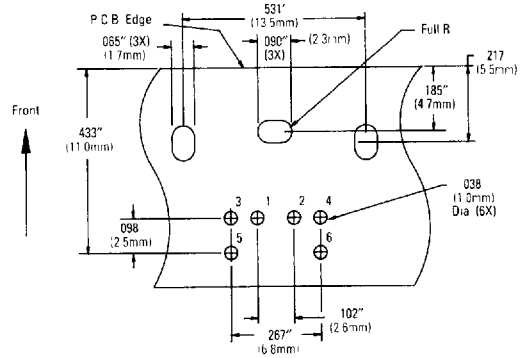
3 Position



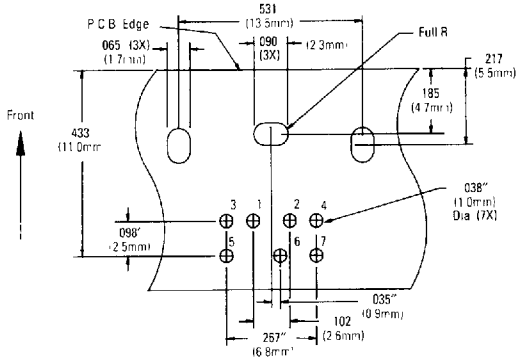
4 Position



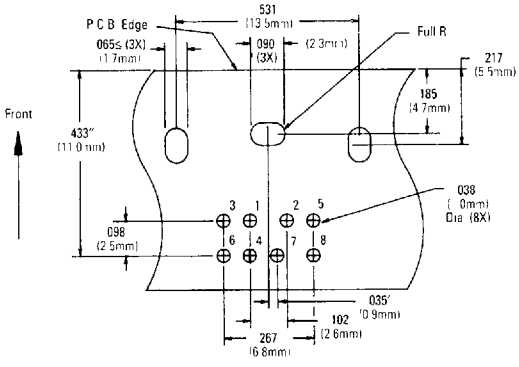
5 Position



6 Position



7 Position



8 Position

Note: Circular .090 holes can be substituted for the ovals shown here