

**.085 in. (2.16mm)  
Density  
Miniature Ribbon**

Solder Cup  
Metal Shell

**Cinch**

FEATURES

- **Terminates Discrete Wire (loose or jacketed cable) with ultra-low-resistance solder connections.**
- **Metal shell provides grounding and shielding capability.**
- **Available in plug and socket styles in 14, 24, 36, and 50 position sizes.**
- **Designed for panel mount, 180° (Top-Entry), or 90° (Standard) / 270° (Reverse) End-Entry cable applications.**
- **All plugs lock with InstaLatch passive latch feature for automatic latching.**
- **Industry-standard bail latch feature available for locking/unlocking without tools in applications such as SCSI-1 and Centronics.**
- **UL Recognized - Files E170218 (UL1977), E130965 (UL1863).**
- **CSA Approved - File LR31996-7.**

MATERIALS

**Insulator:** Blue UL94V-0 rated diallyl phthalate type MDG, per MIL-M14F

**Contact:** Copper alloy

**Contact Plating:** Select gold over 50µin. select nickel standard;  
30µin. select gold over 50µin. select nickel available where indicated

**Shell:** Steel

**Shell Plating:** Zinc with clear chromate coating

ENVIRONMENTAL

**Operating Temperature:** -40°C to +105°C

**Shock:** 50G Peak, per EIA Std. RS364, TP27, Condition A

**Vibration:** 3 cycles @ 10-55Hz in each of 3 axes per EIA Std. 364, TP28, Condition A

**Moisture Resistance:** Per EIA Std. RS364, TP31, Condition B, with Step 7B excluded

ELECTRICAL

**Voltage Rating:** 500 VAC @ sea level; 125 VAC @ 70,000 ft.

**Withstanding Voltage:** 1200 VAC RMS @ sea level, per EIA Std. RS364, TP20

**Contact Rating:** 5 Amps (4 Amps per CSA)

**Contact Resistance:** 6 Milliohms maximum, per EIA Std. RS364, TP6

**Insulation Resistance:** 5000 Megohms minimum initial;  
1000 Megohms minimum after moisture

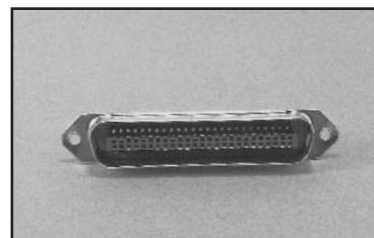
MECHANICAL

**Durability:** 200 mating/unmating cycles

**Mating / Unmating Forces:**

| Size | Mating Force (max.) |      | Unmating Force (min.) |      |
|------|---------------------|------|-----------------------|------|
|      | Lb.                 | Kg   | Lb.                   | Kg   |
| 14   | 5                   | 2.27 | 2                     | 0.91 |
| 24   | 8                   | 3.63 | 4                     | 1.81 |
| 36   | 12                  | 5.44 | 6                     | 2.72 |
| 50   | 15                  | 6.80 | 7                     | 3.18 |

**Termination:** Each contact accepts maximum 22 AWG solid wire or maximum 24 AWG stranded wire



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## **Panel Mount**

"Panel mount" products are connectors without hoods. They are typically used to provide signal I/O from a system panel or cabinet, where strain relief to a cable jacket is not required.

- Available with high barrier insulators that extend beyond the end of the solder cup, physically isolating adjacent contacts.
- Standard versions have .103" mounting holes (sockets have .103" with float bushings) for use with #3 hardware, or .185" mounting holes for use with #8 hardware.
- Select sizes are available with .120" mounting holes for use with #4 hardware, or with integral panel clips, which allow snap-in front mounting for more cost-effective assembly.
- Bail latching sockets are available, as are bail latching plugs. While the plugs would not be panel-mounted, they are available for premold/solder overmolding applications.

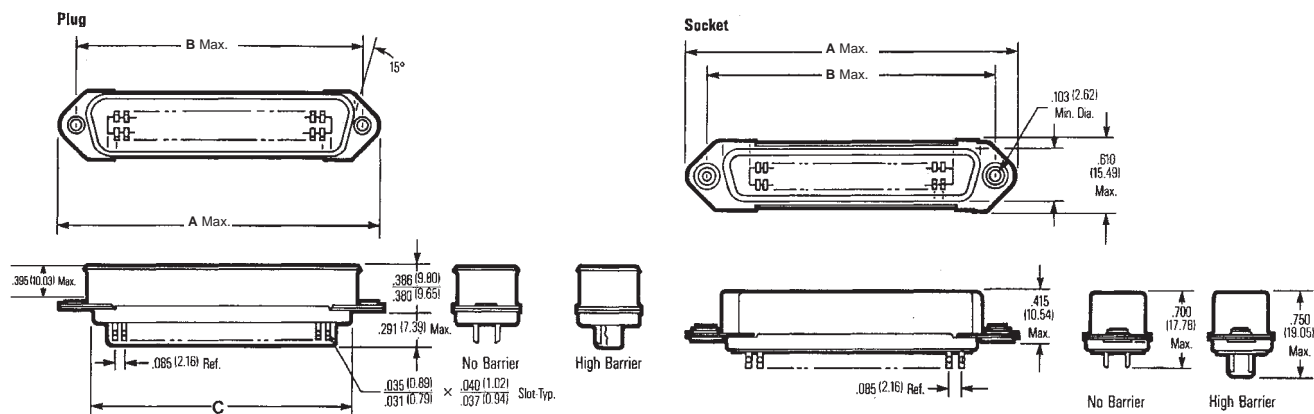
See page 6-4 for recommended standard panel cutout dimensions.

See page 6-51 for accessories such as mounting screws and dust covers, which make the use of Cinch Miniature Ribbon connectors even more cost-effective in panel-mount applications.

See the appropriate cable connector section that follows for products that include hoods for exposed-cable applications.

## **Dimensions**

| Size | A     |       | B     |       | C     |       |
|------|-------|-------|-------|-------|-------|-------|
|      | in    | mm    | in    | mm    | in    | mm    |
| 14   | 1.750 | 44.45 | 1.417 | 35.99 | 0.910 | 23.11 |
| 24   | 2.175 | 55.25 | 1.842 | 46.79 | 1.335 | 33.91 |
| 36   | 2.685 | 68.20 | 2.352 | 59.74 | 1.845 | 46.86 |
| 50   | 3.260 | 82.80 | 2.947 | 74.85 | 2.440 | 61.98 |

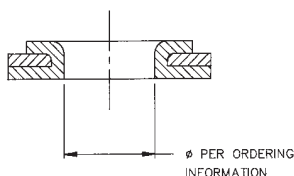


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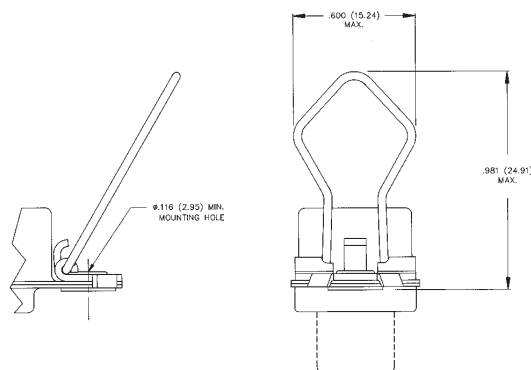
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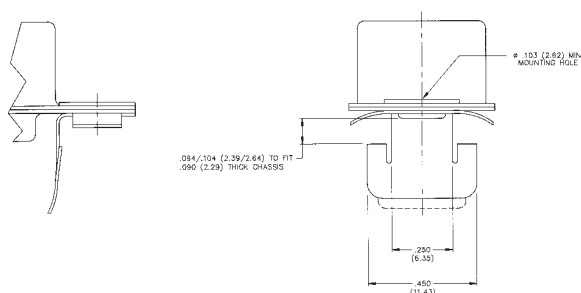
**Through Hole**



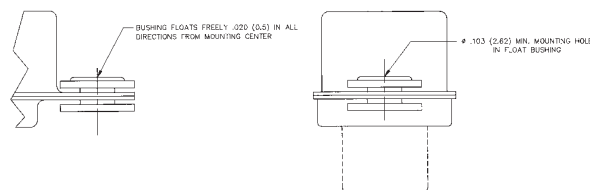
**Bail Latches**



**Integral Panel Clips**



**Float Mounts**



**Ordering Information, Panel Mount**

**Plug, InstaLatching**

| Mount                            | Size | No Barrier   |               | High Barrier |               |
|----------------------------------|------|--------------|---------------|--------------|---------------|
|                                  |      | Commercial   | 30Au/Ni       | Commercial   | 30Au/Ni       |
| .103 Hole                        | 14   | 57-10140     | 57-10140A     | 57-10140-6   | 57-10140-6A   |
|                                  | 24   | 57-10240     | 57-10240A     | 57-10240-6   | 57-10240-6A   |
|                                  | 36   | 57-10360     | 57-10360A     | 57-10360-14  | 57-10360-14A  |
|                                  | 50   | 57-10500     | 57-10500A     | 57-10500-6   | 57-10500-6A   |
| .185 Hole                        | 14   | 57-10140-185 | 57-10140-185A | -            | -             |
|                                  | 24   | 57-10240-4   | 57-10240-4A   | -            | -             |
|                                  | 36   | 57-10360-22  | 57-10360-22A  | -            | -             |
|                                  | 50   | 57-10500-48  | 57-10500-48A  | -            | -             |
| .120 Hole                        | 50   | -            | -             | 57-10500-120 | 57-10500-120A |
| Integral Panel Clips*, .103 Hole | 50   | -            | -             | 57-10500-41  | 57-10500-41A  |
| Bail Latching                    | 36   | -            | -             | 57-10360-28† | 57-10360-28A† |
| Tin-Plated Shells                | 50   | -            | -             | 57-10500-79  | 57-10500-79A  |

† IEEE 1284-B (for foil wrap & overmold applications)

**Socket**

| Latch        | Mount                            | Size | No Barrier  |              | High Barrier |               |
|--------------|----------------------------------|------|-------------|--------------|--------------|---------------|
|              |                                  |      | Commercial  | 30Au/Ni      | Commercial   | 30Au/Ni       |
| No latches   | Float Mounts with .103 Hole      | 14   | 57-20140    | 57-20140A    | 57-20140-6   | 57-20140-6A   |
|              |                                  | 24   | 57-20240    | 57-20240A    | 57-20240-6   | 57-20240-6A   |
|              |                                  | 36   | 57-20360    | 57-20360A    | 57-20360-10  | 57-20360-10A  |
|              |                                  | 50   | 57-20500    | 57-20500A    | 57-20500-6   | 57-20500-6A   |
|              | .185 Hole                        | 14   | 57-20140-4  | 57-20140-4A  | -            | -             |
|              |                                  | 24   | 57-20240-2  | 57-20240-2A  | -            | -             |
|              |                                  | 36   | 57-20360-3  | 57-20360-3A  | -            | -             |
|              |                                  | 50   | 57-20500-15 | 57-20500-15A | -            | -             |
|              | .120 Hole                        | 50   | -           | -            | 57-20500-120 | 57-20500-120A |
|              | Integral Panel Clips*, .103 Hole | 50   | -           | -            | 57-20500-41  | 57-20500-41A  |
| Bail latches | .116 Hole                        | 14   | 57-40140    | 57-40140A    | 57-40140-HB  | 57-40140-HBA  |
|              |                                  | 24   | 57-40240    | 57-40240A    | 57-40240-HB  | 57-40240-HBA  |
|              |                                  | 36   | 57-40360†   | 57-40360A†   | 57-40360-9†  | 57-40360-9A†  |
|              |                                  | 50   | 57-40500    | 57-40500A    | 57-40500-4   | 57-40500-4A   |
|              | .116 Hole with Tin-Plated Shell  | 50   | 57-40500-5  | 57-40500-5A  | 57-40500-28† | 57-40500-28A† |
|              |                                  |      |             |              |              |               |

\* Integral Panel Clips, for front-mount only, require modified panel cutout. See page 6-52 for details.

† IEEE 1284-B

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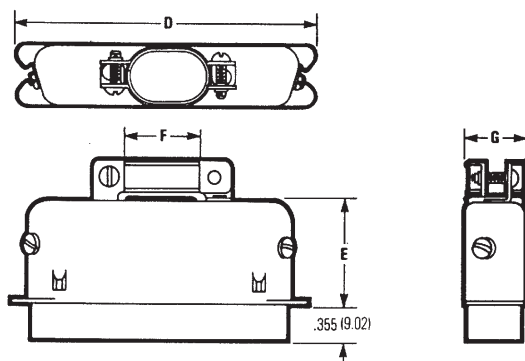
**Cinch**

**180° (Top-Entry) Cable**

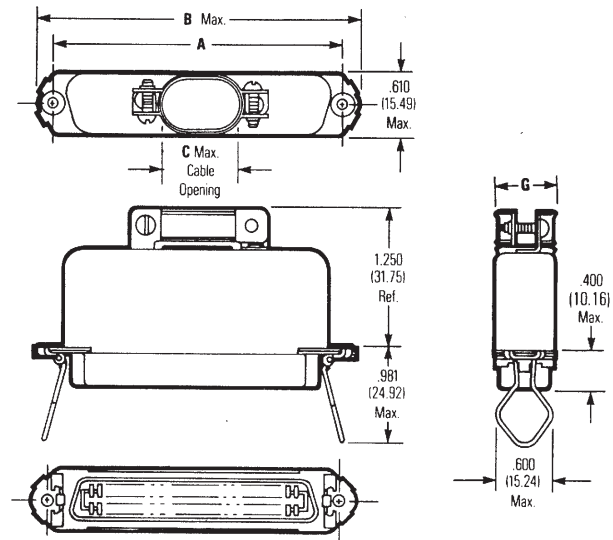
Top-Entry products include a connector, hood, and associated hardware. They are typically used at the end of a cable, where it is subject to physical strain and protection of the termination area is required.

- Includes all hardware required to attach hood to connector.
- Bail latching sockets have latch hardware integral to connector body, making cable assembly less costly.
- Bail latching plugs include notches that lock with industry-standard bail-lock sockets.

**Plug**



**Socket**



**Dimensions**

|      | A     |       | B     |       | C    |       | D     |       | E    |       | F    |       | G    |       |
|------|-------|-------|-------|-------|------|-------|-------|-------|------|-------|------|-------|------|-------|
| Size | in    | mm    | in    | mm    | in   | mm    | in    | mm    | in   | mm    | in   | mm    | in   | mm    |
| 14   | 1.417 | 35.99 | 1.750 | 44.45 | .306 | 7.77  | 1.495 | 37.97 | .843 | 21.41 | .306 | 7.77  | .422 | 10.72 |
| 24   | 1.842 | 46.79 | 2.175 | 55.25 | .473 | 11.10 | 1.920 | 48.77 | .825 | 20.96 | .473 | 12.01 | .473 | 12.01 |
| 36   | 2.352 | 59.74 | 2.685 | 68.20 | .639 | 16.23 | 2.431 | 61.75 | .905 | 22.99 | .640 | 16.26 | .473 | 12.01 |
| 50   | 2.947 | 74.85 | 3.270 | 83.06 | .766 | 19.46 | 3.025 | 76.84 | .995 | 25.27 | .766 | 19.46 | .473 | 12.01 |

**Ordering Information, 180° (Top-Entry) Cable**

**Plug, InstaLatching**

| Mount                         | Size | No Barrier |             | High Barrier |             |
|-------------------------------|------|------------|-------------|--------------|-------------|
|                               |      | Commercial | 30Au/Ni     | Commercial   | 30Au/Ni     |
| Bail Latching                 | 14   | 57-30140   | 57-30140A   | -            | -           |
|                               | 24   | 57-30240   | 57-30240A   | -            | -           |
|                               | 36   | 57-30360   | 57-30360A   | -            | -           |
|                               | 50   | 57-30500   | 57-30500A   | 57-30500-3   | 57-30500-3A |
| #4-40 Holes for captive screw | 50   | 57-30500-4 | 57-30500-4A | -            | -           |

**Socket**

| Mount             | Size | No Barrier |           | High Barrier |         |
|-------------------|------|------------|-----------|--------------|---------|
|                   |      | Commercial | 30Au/Ni   | Commercial   | 30Au/Ni |
| With Bail Latches | 14   | 57-60140   | 57-60140A | -            | -       |
|                   | 24   | 57-60240   | 57-60240A | -            | -       |
|                   | 36   | 57-60360   | 57-60360A | -            | -       |
|                   | 50   | 57-60500   | 57-60500A | -            | -       |

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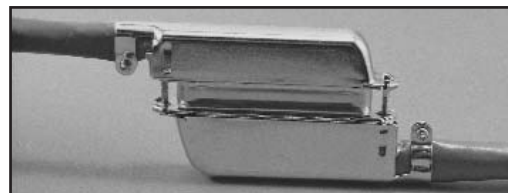
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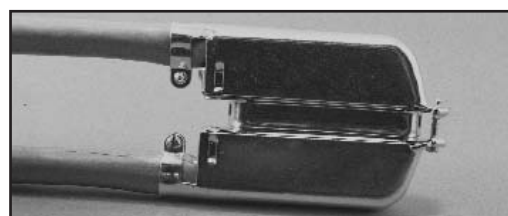
**90° (Standard) / 270° (Reverse) End-Entry Cable**

End-Entry connectors, available in 50 position size only, include a hood and integral cable clamp for cable exit from the end of the connector

- The standard-orientation plug has the cable clamp on the position 1/26 end, and the standard-orientation socket has the clamp on the position 25/50 end.
- Cables may be extended end-to-end (i.e., “running cable”) by mating standard-orientation plugs and sockets, or “doubled back” by mating a standard-orientation connector with a reverse-orientation mate.
- Cables may exit either direction on a cable-to-panel application by choosing standard- or reverse-orientation, depending on the desired direction of cable exit.
- Include screw that is 5/8" long, suitable for locking directly to the body of another connector. For locking to connectors panel-mounted with screw-lock hardware, shorter screws are required. See page 6-51 for these and other accessories, such as dust covers.

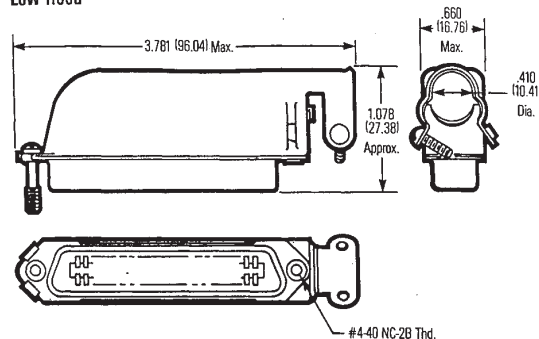


Running Cable Application

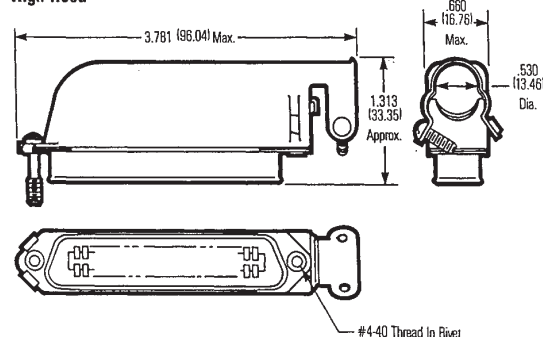


Double-Back Cable Application

Low Hood



High Hood



**Ordering Information, End-Entry**

**Plug, InstaLatching (High Barrier, with Dust Cover)**

| Mount                | Size | Standard (90°) Orientation |              | Reverse (270°) Orientation |               |
|----------------------|------|----------------------------|--------------|----------------------------|---------------|
|                      |      | Commercial                 | 30Au/Ni      | Commercial                 | 30Au/Ni       |
| High (Standard) Hood | 50   | 57-10500-14                | 57-10500-14A | 57-10500-270               | 57-10500-270A |
| Low-Profile Hood     | 50   | 57-10500-7                 | 57-10500-7A  | 57-10500-271               | 57-10500-271A |

**Socket (High Barrier, with Dust Cover)**

| Mount                | Size | Standard (90°) Orientation |              | Reverse (270°) Orientation |               |
|----------------------|------|----------------------------|--------------|----------------------------|---------------|
|                      |      | Commercial                 | 30Au/Ni      | Commercial                 | 30Au/Ni       |
| High (Standard) Hood | 50   | 57-20500-7                 | 57-20500-7A  | 57-20500-270               | 57-20500-270A |
| Low-Profile Hood     | 50   | 57-20500-19                | 57-20500-19A | 57-20500-271               | 57-20500-271A |