

Rack & Panel

Rectangular ■ Miniature ■ Subminiature ■ Environmental ■ Removable Contacts

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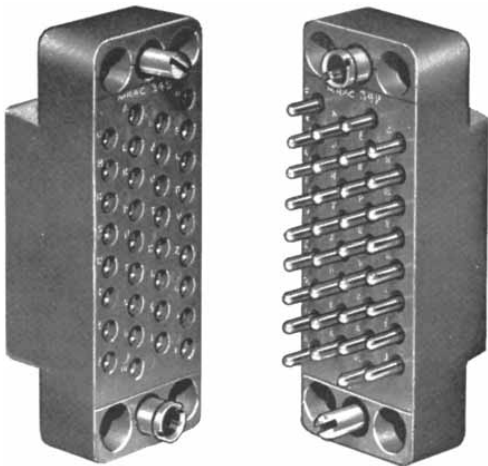
Contact a Winchester Interconnect sales representative for your V.35 Rack & Panel Data Communications Connectors

While the information in this publication is believed to be accurate and reliable, all data presented is subject to change without notice. Winchester Interconnect disclaims responsibility for any damages resulting from application or any incompleteness or inaccuracies in the information presented. Consult factory for specific information on the latest design specifications.

MRAC Series

Miniature Rectangular, Removable Contacts

- Closed Entry Removable Socket and Pin Contacts.
- Connector Inserts with 9 to 104 Contacts.
- Quick Crimp ... Snap in Place!
- To remove ... insert removal tool — “Push Out” Contact!



Removable contacts offer a substantial savings of time, labor and a great flexibility in the choice of circuitry. The contact is easily removed with the hand tool depicted and then placed by hand or with a simple insertion tool

The MRAC Series is an important extension of the MRA line featuring a variety of crimp and solder removable contact styles. Except for body thickness, they are similar and interchangeable with the MRA Series.

Specifications

| | | | |
|-------------------------------|--|-------------------------|---|
| Current Rating: | Up to 13 amps | Electrical Data: | Meets high potential performance of MIL-C-28748. The dielectric withstanding voltage is one minute electrification at 2000 VAC (sea level). |
| No. of Contacts: | 9, 14, 18, 20, 26, 34, 41, 42, 50, 66, 75, 104 | Dielectric: | MRAC Series: Standard glass filled diallyl phthalate, per MIL-M-14, SDG-F, color gray. |
| Contacts: | Must be ordered separately. Select from crimp, solder, dip solder, shielded or Wire-Wrap termination contacts. See 100 Series contact section. | Qualification: | Military Versions are QPL'd to M28748/3 and M28748/4. |
| Contact Identificaion: | Standard contact identification is alphabetical except for MRAC66 and 75 which have numerical identification. To order numerical identification on MRAC 34, 50 or 104, specify MNAC**P or S. | Polarization: | Gold plated guides provide positive polarization. Polarized nickel-plated brass and/or passivated stainless steel with anodized aluminum knobs available. |
| | | Hoods: | Anodized aluminum. May be applied to either plug or receptacle. Both top and side opening hoods available. |

Military Cross Reference

| CATALOG NO. | | CATALOG NO. | |
|-------------|------------|-------------|------------|
| MRAC 9P | MS 14007-1 | MRAC 42P | MS 18180-1 |
| MRAC 9S | MS 14006-1 | MRAC 42S | MS 18181-1 |
| MRAC 14P | MS 18174-1 | MRAC 50P | MS 18182-1 |
| MRAC 14S | MS 18175-1 | MRAC 50S | MS 18183-1 |
| MRAC 20P | MS 18176-1 | MRAC 66P | MS 18184-1 |
| MRAC 20S | MS 18177-1 | MRAC 66S | MS 18185-1 |
| MRAC 26P | MS 14008-1 | MRAC 75P | MS 18187-1 |
| MRAC 26S | MS 14005-1 | MRAC 75S | MS 18188-1 |
| MRAC MS34P | MS 18178-1 | MRAC 104P | MS 18189-1 |
| MRAC MS34S | MS 18179-1 | MRAC 104S | MS 18190-1 |

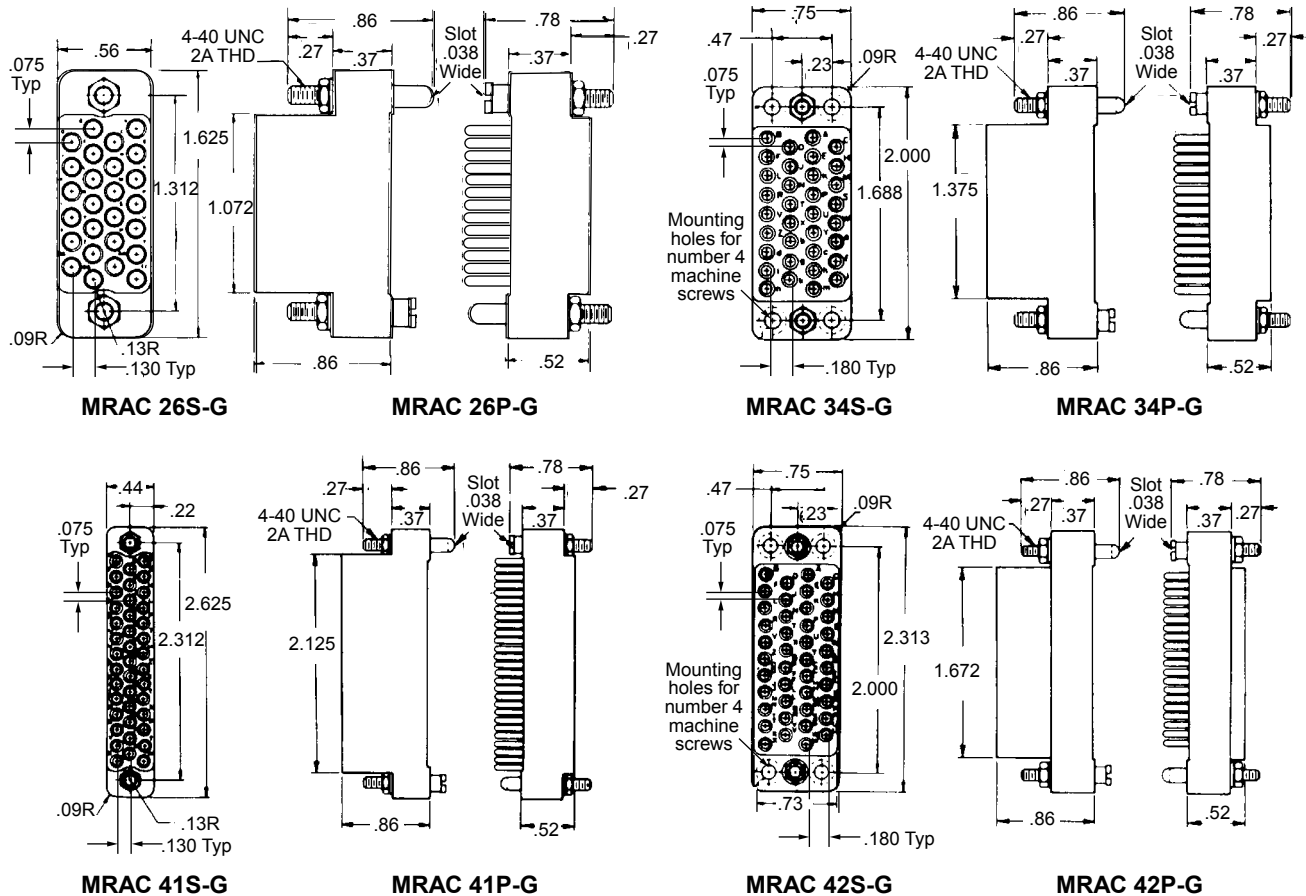
Miniature Rectangular, Removable Contacts

possible for positive polarization and for protection of contacts except for the MRAC 104 where the jackscrew locking device is recommended.



Outline

Dimensions are for reference only and are subject to change. Outline drawings on request.



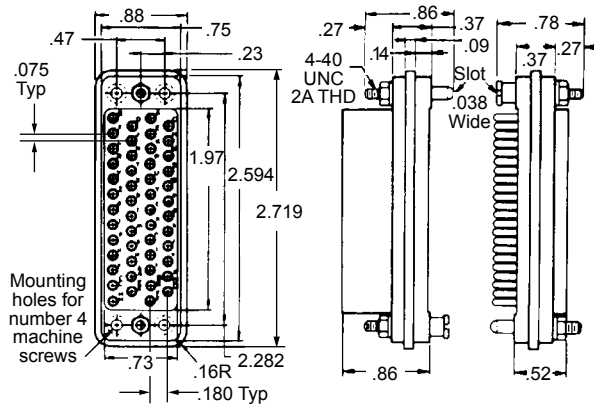
Drawings and corresponding part numbers show G type guide sockets except for the MRAC104P and S which show JT hardware.

Mounting Note: Connectors MRAC 26, MRAC 20 and smaller, use guides for mounting in a hood or on a panel. Connectors MRAC 34, MRAC 42, MRAC 50, MRAC 66, and MRAC 75 use four #4 machine screws, in addition to guides, for mounting in a hood or on a panel. Guides are not recommended for use with MRAC 104. MRAC 104 uses four #6 machine screws for mounting.

*For numerical contact identification instead of alphabetical, order MNAC.____P or S available in sizes 34, 50 and 104. Example MNAC 34P. MRAC 66 and 75 have numerical contact identification as standard.

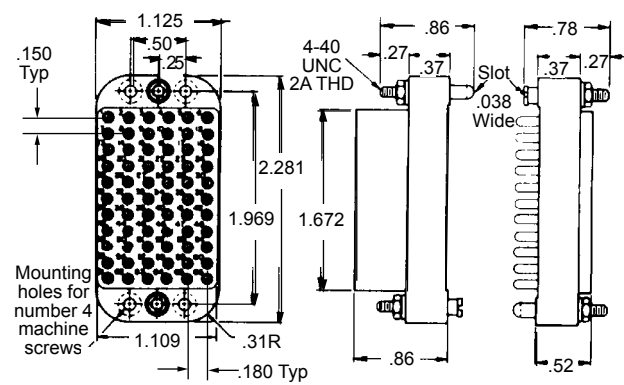
Outline

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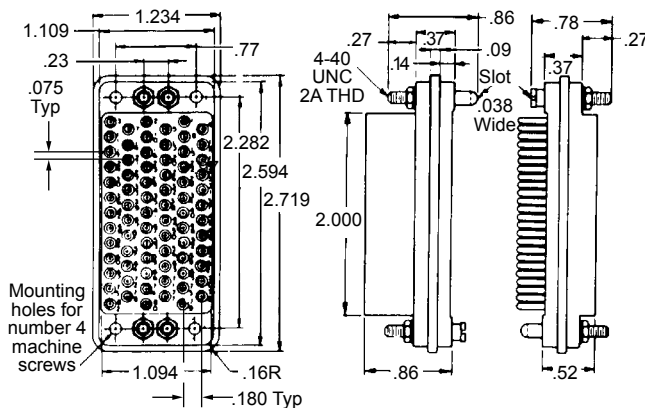
MRAC 50S-G

MRAC 50P-G



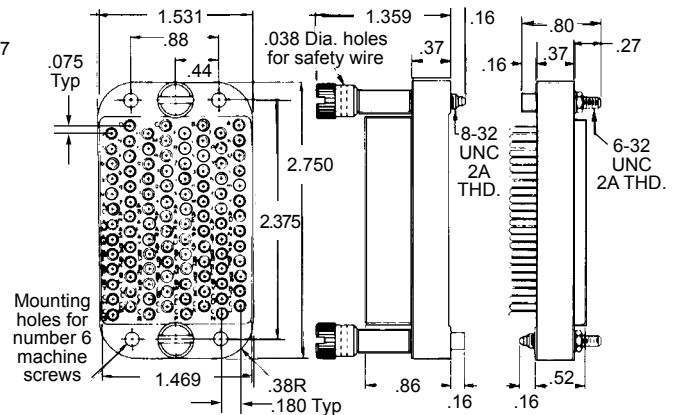
MRAC 66S-G

MRAC 66P-G



MRAC 75S-G

MRAC 75P-G



MRAC 104S-JT *

MRAC 104P-J

Drawings and corresponding part numbers show G type guide sockets except for the MRAC104P and S which show JT hardware.

Mounting Note: Connectors MRAC 26, MRAC 20 and smaller, use guides for mounting in a hood or on a panel. Connectors MRAC 34, MRAC 42, MRAC 50, MRAC 66, and MRAC 75 use four #4 machine screws, in addition to guides, for mounting in a hood or on a panel. Guides are not recommended for use with MRAC 104. MRAC 104 uses four #6 machine screws for mounting.

*For numerical contact identification instead of alphabetical, order MNAC.____P or S available in sizes 34, 50 and 104. Example MNAC 34P. MRAC 66 and 75 have numerical contact identification as standard.

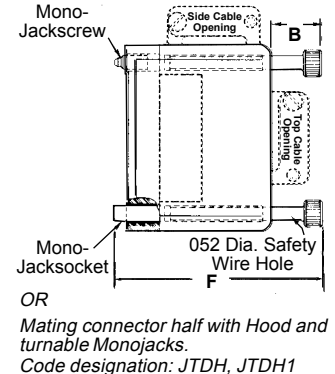
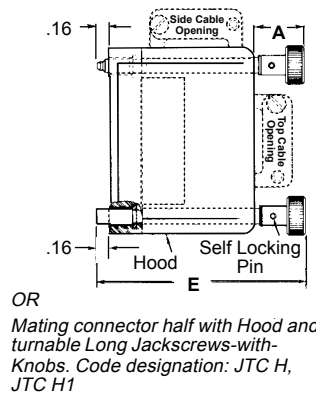
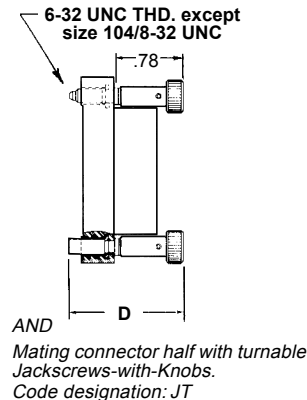
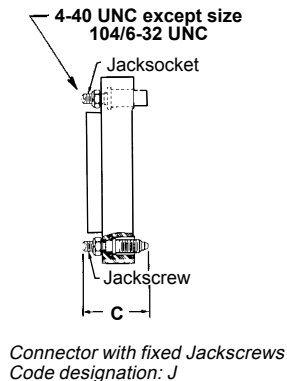
Jackscrews & Jacksockets

Outline

Dimensions are for reference only and are subject to change. Outline drawings on request.

Polarized jackscrews give the ease and assurance of threaded positive coupling. The actuating side consists of two turnable screws, one male and one female, each with knurled and slotted knobs. On the mating half

are the two fixed screws required to complete the locking action. When mated, the jackscrews may be locked with a safety wire through the hole in the self-locking pin (in the jackscrew shaft).



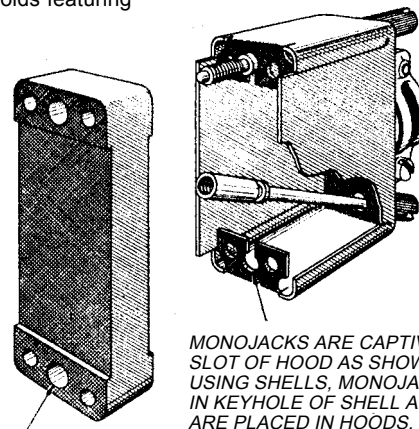
Dimensions

| Connector Size | Dimension A | | | | | Dimension B | | | | | C | | Dimension E | | | | | Dimension F | | | |
|-------------------|-------------|-----|-----|-----|-----|-------------|-----|-----|-----|-----|------|------|-------------|------|------|------|------|-------------|------|------|--|
| | H | H1 | H8 | H9 | H13 | H | H1 | H8 | H9 | H | | | H1 | H8 | H9 | H13 | H | H1 | H8 | H9 | |
| MRAC 9 | — | .59 | — | — | .59 | — | — | — | — | .80 | 1.31 | — | 2.41 | — | — | 2.41 | — | — | — | — | |
| MRAC 14 | — | .59 | — | — | .59 | — | — | — | — | .80 | 1.31 | — | 2.41 | — | — | 2.41 | — | — | — | — | |
| MRAC 18 | — | .59 | — | — | .59 | — | — | — | — | .80 | 1.31 | — | 2.41 | — | — | 2.41 | — | — | — | — | |
| MRAC 20 | — | .59 | — | — | .59 | — | — | — | — | .80 | 1.31 | — | 2.41 | — | — | 2.41 | — | — | — | — | |
| MRAC 26 | .80 | .59 | .59 | .59 | — | — | — | — | — | .80 | 1.31 | 2.61 | 2.41 | 2.41 | 2.41 | — | — | — | — | — | |
| MRAC 34 | .63 | .63 | .63 | .63 | — | .63 | .63 | .63 | .63 | .80 | 1.31 | 2.41 | 2.41 | 2.41 | — | — | — | 2.41 | 2.41 | 2.41 | |
| MRAC 41 | .63 | .63 | — | — | — | — | — | — | — | .80 | 1.31 | 2.41 | 2.41 | — | — | — | — | — | — | — | |
| MRAC 42 | .58 | .58 | .58 | .58 | — | .58 | .58 | .58 | .58 | .80 | 1.31 | 2.41 | 2.41 | 2.41 | — | — | 2.41 | 2.41 | 2.41 | 2.41 | |
| MRAC 50 | .58 | .58 | .58 | .58 | — | .58 | .58 | .58 | .58 | .80 | 1.31 | 2.41 | 2.41 | 2.41 | — | — | 2.41 | 2.41 | 2.41 | 2.41 | |
| MRAC 66 | .69 | — | — | .69 | — | .5 | — | — | .5 | .80 | 1.31 | 2.41 | — | — | 2.41 | — | 2.41 | — | — | 2.41 | |
| MRAC 75 | .56 | .56 | .56 | .56 | — | .56 | .56 | .56 | .56 | .80 | 1.31 | 2.41 | 2.41 | 2.41 | — | — | 2.41 | 2.41 | 2.41 | 2.41 | |
| MRAC 104 | .5 | — | — | .67 | — | .5 | — | — | .5 | .80 | 1.52 | 3.42 | — | — | 3.42 | — | 3.25 | — | — | 3.25 | |

New Monojacks Assemble and Disassemble With Remarkable Ease and Speed

To free the connector from the hood, simply remove four screws. Monojacks may be used on miniature rectangular connectors with from 34 to 104 contacts and with molds featuring

guide hole and two mounting holes on both ends. Molds have 2 center thru holes and 4 mounting holes.

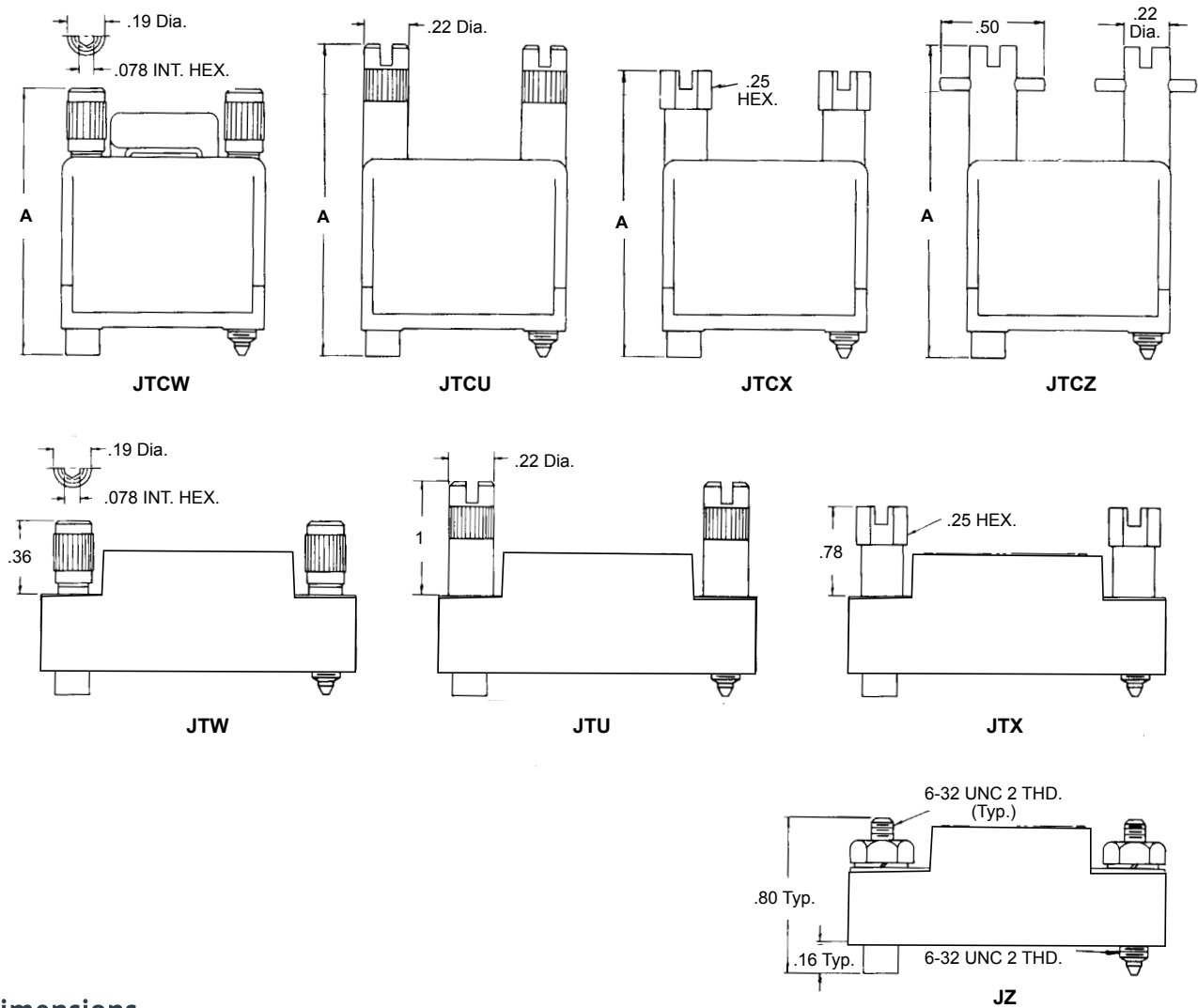


MOLDINGS HAVE STRAIGHT THRU HOLES

Outline Jackscrews and Jacksockets

Miniature Rectangular, Removable Contacts

Dimensions are for reference only and are subject to change. Outline drawings on request.



Dimensions

All jackscrews and sockets are stainless steel, passivated except J & JTD which are nickel plated brass.
All knobs are aluminum, anodized except JTW and JTCW which are stainless steel, passivated.

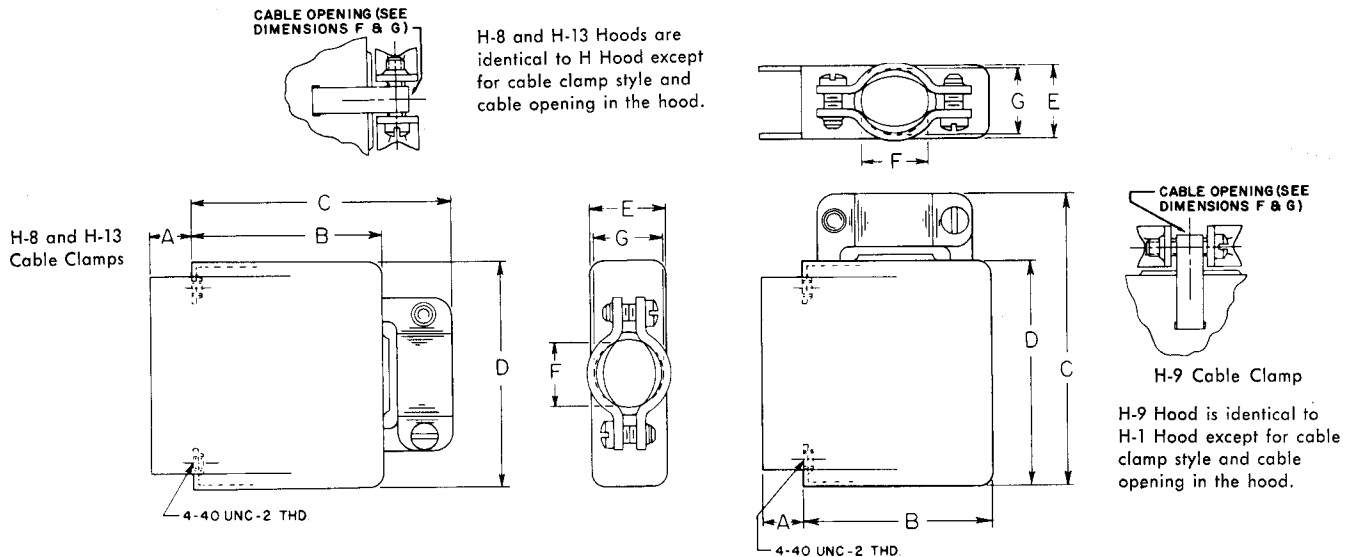
Hood Type

| Size | Type JTCW | | | | | Size | Type JTCU | | | | | Size | Type JTCX | | | | | Size | Type JTCZ | | | | |
|-------------|-----------|------|------|------|------|-------------|-----------|------|------|------|------|-------------|-----------|------|------|------|------|-------------|-----------|------|------|------|------|
| | H | H1 | H8 | H9 | H13 | | H | H1 | H8 | H9 | H13 | | H | H1 | H8 | H9 | H13 | | H | H1 | H8 | H9 | H13 |
| Dimension A | | | | | | Dimension A | | | | | | Dimension A | | | | | | Dimension A | | | | | |
| 9 | – | 2.22 | – | – | 2.22 | 9 | – | 2.47 | – | – | 2.47 | 9 | – | 2.34 | – | – | 2.34 | 9 | – | 2.47 | – | – | 2.47 |
| 14 | – | 2.22 | – | – | 2.22 | 14 | – | 2.47 | – | – | 2.47 | 14 | – | 2.34 | – | – | 2.34 | 14 | – | 2.47 | – | – | 2.47 |
| 18 | – | 2.22 | – | – | 2.22 | 18 | – | 2.47 | – | – | 2.47 | 18 | – | 2.34 | – | – | 2.34 | 18 | – | 2.47 | – | – | 2.77 |
| 20 | – | 2.22 | – | 2.22 | 2.22 | 20 | – | 2.47 | – | 2.47 | 2.47 | 20 | – | 2.34 | – | 2.34 | 2.34 | 20 | – | 2.47 | – | 2.47 | 2.47 |
| 26 | 2.22 | 2.22 | 2.22 | 2.22 | – | 26 | 2.47 | 2.47 | 2.47 | 2.47 | – | 26 | 2.61 | 2.34 | 2.34 | 2.34 | – | 26 | 2.73 | 2.47 | 2.47 | 2.47 | – |
| 34 | 2.22 | 2.22 | 2.22 | 2.22 | – | 34 | 2.47 | 2.47 | 2.47 | 2.47 | – | 34 | 2.34 | 2.34 | 2.34 | 2.34 | – | 34 | 2.47 | 2.47 | 2.47 | 2.47 | – |
| 41 | 2.22 | 2.22 | – | – | – | 41 | 2.47 | 2.47 | – | – | – | 41 | 2.34 | 2.34 | – | – | – | 41 | 2.47 | 2.47 | – | – | – |
| 42 | 2.22 | 2.22 | 2.22 | 2.22 | – | 42 | 2.47 | 2.47 | 2.47 | 2.47 | – | 42 | 2.34 | 2.34 | 2.34 | 2.34 | – | 42 | 2.47 | 2.47 | 2.47 | 2.47 | – |
| 50 | 2.22 | 2.22 | 2.22 | 2.22 | – | 50 | 2.47 | 2.47 | 2.47 | 2.47 | – | 50 | 2.34 | 2.34 | 2.34 | 2.34 | – | 50 | 2.47 | 2.47 | 2.47 | 2.47 | – |
| 66 | 2.22 | – | – | 2.22 | – | 66 | 2.47 | – | – | 2.47 | – | 66 | 2.34 | – | – | 2.34 | – | 66 | 2.47 | – | – | 2.47 | – |
| 75 | 2.22 | 2.22 | 2.22 | 2.22 | – | 75 | 2.47 | 2.47 | 2.47 | 2.47 | – | 75 | 2.34 | 2.34 | 2.34 | 2.34 | – | 75 | 2.47 | 2.47 | 2.47 | 2.47 | – |

Outline Formed Aluminum Hoods

Dimensions are for reference only and are subject to change. Outline drawings on request.

Hoods shown are MRE Hoods for use with MRAC Connectors



Dimensions

Formed Hoods for MRAC Connectors are available in top and side opening for most MRAC Connectors - Deep Drawn Hoods are available for MRAC 34, MRAC 66 and MRAC 104 connectors ... providing additional strength. Hoods and cable clamps are of anodized

aluminum. They provide support and strain relief for the cable and may be applied to either Plug or Receptacle.

Hoods may be ordered separately (see code numbers in the tables below) or assembled on connectors.

Top Cable Opening

| Code No. | DIMENSIONS | | | | | Cable Opening | | Wt. Oz. | Fits Connector |
|-----------|------------|------|------|------|------|---------------|-----|---------|-----------------|
| | A | B | C | D | E | F | G | | |
| MRE9H-13 | .28 | 1.28 | 1.58 | 1.31 | .44 | .59 | .31 | .3 | MRAC9 (P or S) |
| MRE14H-13 | .28 | 1.28 | 1.58 | 1.25 | .5 | .59 | .38 | .3 | MRAC14 (P or S) |
| MRE18H-13 | .28 | 1.28 | 1.78 | 1.31 | .63 | .61 | .44 | .3 | MRAC18 (P or S) |
| MRE20H-13 | .28 | 1.28 | 1.58 | 1.56 | .5 | .66 | .38 | .3 | MRAC20 (P or S) |
| MRE26H | .28 | 1.28 | 1.72 | 1.63 | .64 | .59 | .38 | .4 | |
| MRE26H-8 | .28 | 1.28 | 1.78 | 1.63 | .64 | .78 | .44 | .4 | MRAC26 (P or S) |
| MRE34H | .28 | 1.25 | 1.69 | 2 | .83 | .66D | — | .6 | |
| MRE34H-8 | .28 | 1.25 | 1.75 | 2 | .83 | 1.06 | .56 | .6 | MRAC34 (P or S) |
| MRE41H | .28 | 1.25 | 1.69 | 2.63 | .5 | .66 | .44 | .6 | MRAC41 (P or S) |
| MRE42H | .09 | 1.30 | 1.73 | 2.31 | .83 | .63D | — | .7 | |
| MRE42H-8 | .09 | 1.30 | 1.80 | 2.31 | .83 | 1.06 | .56 | .7 | MRAC42 (P or S) |
| MRE50H | .09 | 1.30 | 1.73 | 2.59 | .83 | .63D | — | .8 | |
| MRE50H-8 | .09 | 1.30 | 1.80 | 2.59 | .83 | 1.06 | .56 | .8 | MRAC50 (P or S) |
| MRE75H | .09 | 1.31 | 1.75 | 2.59 | 1.19 | .63 | .88 | 1.0 | |
| MRE75H-8 | .09 | 1.31 | 1.86 | 2.59 | 1.19 | 1 | .88 | 1.0 | MRAC75 (P or S) |

Side Cable Opening

| Code No. | DIMENSIONS | | | | | Cable Opening | | Wt. Oz. | Fits Connector |
|----------|------------|------|------|------|------|---------------|-----|---------|-----------------|
| | A | B | C | D | E | F | G | | |
| MRE9H-1 | .28 | 1.28 | 1.63 | 1.31 | .44 | .31D | — | .3 | |
| MRE9H-9 | .28 | 1.28 | 1.61 | 1.31 | .44 | .59 | .31 | .3 | MRAC9 (P or S) |
| MRE14H-1 | .28 | 1.28 | 1.69 | 1.25 | .5 | .38D | — | .3 | |
| MRE14H-9 | .28 | 1.28 | 1.55 | 1.25 | .5 | .59 | .38 | .3 | MRAC14 (P or S) |
| MRE18H-1 | .28 | 1.28 | 1.75 | 1.31 | .63 | .44D | — | .3 | |
| MRE18H-9 | .28 | 1.28 | 1.81 | 1.31 | .63 | .69 | .44 | .3 | MRAC18 (P or S) |
| MRE20H-1 | .28 | 1.28 | 2 | 1.56 | .5 | .38D | — | .3 | |
| MRE20H-9 | .28 | 1.28 | 1.86 | 1.56 | .5 | .66 | .38 | .3 | MRAC20 (P or S) |
| MRE26H-1 | .28 | 1.28 | 2.06 | 1.63 | .64 | .59 | .38 | .4 | |
| MRE26H-9 | .28 | 1.28 | 2.13 | 1.63 | .64 | .78 | .44 | .4 | MRAC26 (P or S) |
| MRE34H-1 | .28 | 1.25 | 2.42 | 2 | .83 | .66D | — | .6 | |
| MRE34H-9 | .28 | 1.25 | — | 2 | .83 | .81 | .56 | .6 | MRAC34 (P or S) |
| MRE41H-1 | .28 | 1.25 | 3.06 | 2.63 | .5 | .66 | .44 | .6 | MRAC41 (P or S) |
| MRE42H-1 | .09 | 1.30 | 2.73 | 2.31 | .83 | .63 | .5 | .7 | |
| MRE42H-9 | .09 | 1.30 | — | 2.31 | .83 | .84 | .56 | .7 | MRAC42 (P or S) |
| MRE50H-1 | .09 | 1.30 | 3.02 | 2.59 | .83 | .63 | .5 | .8 | |
| MRE50H-9 | .09 | 1.30 | — | 2.59 | .83 | 1.06 | .56 | .8 | MRAC50 (P or S) |
| MRE75H-1 | .09 | 1.31 | 3.02 | 2.59 | 1.19 | .63 | .88 | 1.0 | |
| MRE75H-9 | .09 | 1.31 | — | 2.59 | 1.19 | 1 | .88 | 1.0 | MRAC75 (P or S) |

Miniature Rectangular, Removable Contacts



Vibration Locks

Lock Tabs (MRE-V shown)

Lever & Pivot Assemblies (MRE-VL shown)

| Nomenclature | | Used on Connectors |
|------------------------|----------------------|--|
| Lever & Pilot Assembly | Lock Tabs (See Note) | |
| MRE-VL | MRE-V | MRAC 9, 14, 18, 20, 26, 34, 41, and 42 |
| MRE-VL2 | MRE-V2 | MRAC 50 MRAC 75 |

Designed for MRAC connectors, this vibration lock features genuine simplicity of design, plus complete locking effectiveness. Assembly of either the lever-and-pivot assembly or the lock

parts to the plug and receptacle is quick and easy. The unit locks automatically when the mating plug and receptacle are engaged. Unlocking and disengaging can be done with one hand.

Note 1: When panel mounting the lock-tab half of a MRAC 34, MRAC 42 or MRAC 50 connector, flat washers (.033 minimum thickness) should be used on the mounting screws to shim the molding away from the panel.
Note 2: Each code number indicates two units, i.e., the "MRE-VL" consists of two levers and two pivots (unassembled), and the "MRE-V" consists of two tabs.
Note 3: These units are supplied unassembled to facilitate handling. The pivot is easily assembled to the lever merely by inserting the hooked end through the lever opening. It will automatically snap into proper position. Patent #2,760,174.

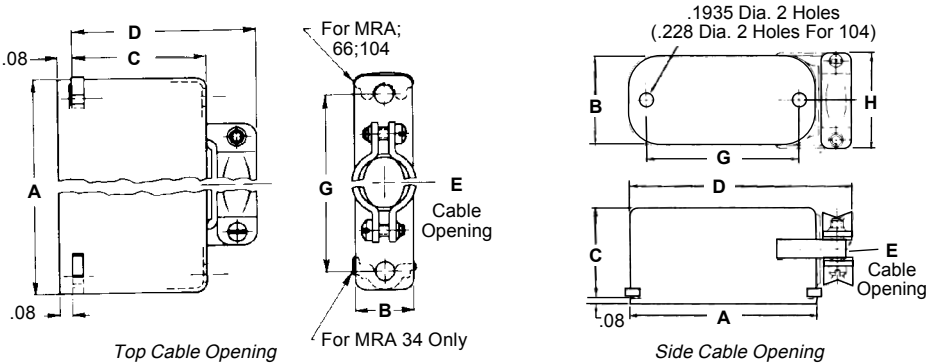
Dimensions / Outline
Hoods

Hoods shown are MRA Hoods for use with MRAC Connectors

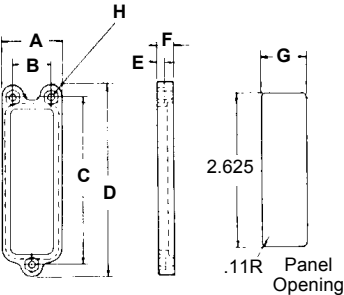
| Code No. | DIMENSIONS - Top Opening | | | | | | | Wt. Oz. | Fits Connector |
|-------------|--------------------------|------|------|------|-----------|---|-------|---------|------------------------|
| | A | B | C | D | E | H | G | | |
| MRA 34H-491 | 2.08 | .83 | 1.17 | 1.59 | .66 x .75 | — | 1.688 | .6 | MRAC 34P MRAC 34S |
| MRA 66H | 2.38 | 1.22 | 1.17 | 1.69 | 1.03 Dia. | — | 1.969 | .8 | MRAC 66P MRAC 66S |
| MRA 104H | 2.84 | 1.63 | 2.23 | 2.75 | 1.19 Dia. | — | 2.375 | 1.0 | MRAC 104P MRAC 104S |

| Code No. | DIMENSIONS - Side Opening | | | | | | | Wt. Oz. | Fits Connector |
|--------------|---------------------------|------|------|------|-----------|------|-------|---------|------------------------|
| | A | B | C | D | E | H | G | | |
| MRA 34H9-491 | 2.08 | .83 | 1.17 | 2.59 | .64 x .75 | 1.06 | 1.688 | .6 | MRAC 34P MRAC 34S |
| MRA 66H9 | 2.38 | 1.22 | 1.17 | 2.92 | .84 Dia. | 1.34 | 1.969 | .8 | MRAC 66P MRAC 66S |
| MRA 104H9 | 2.84 | 1.63 | 2.23 | 3.39 | 1.19 Dia. | 1.63 | 2.375 | 1.0 | MRAC 104P MRAC 104S |

Dimensions are for reference only and are subject to change. Outline drawings on request.



Dimensions / Outline

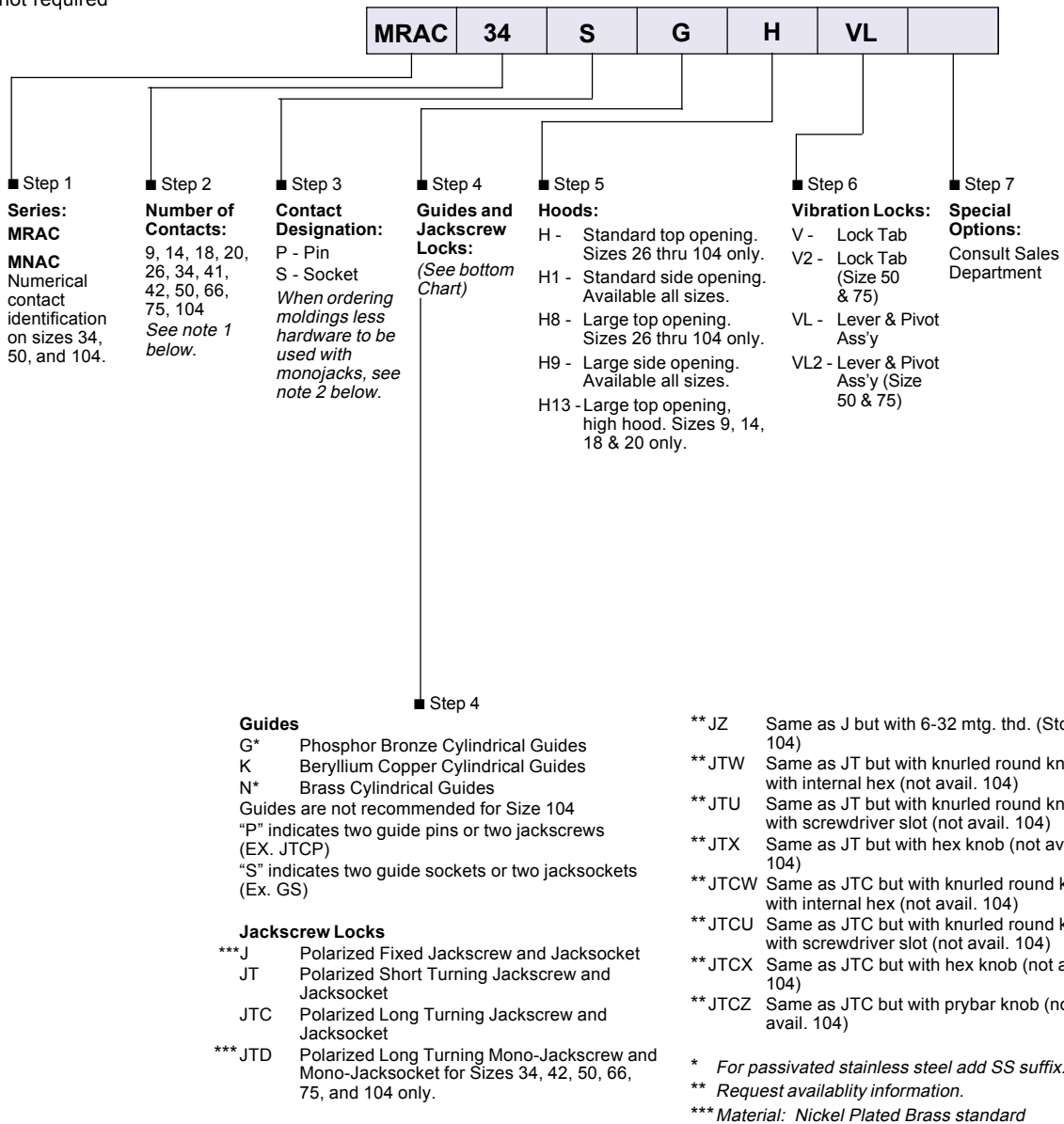


MRAC 50 and MRAC 75 connectors use the standard MRE 50 and MRE 75 mounting brackets.

| Code No. | DIMENSIONS | | | | | | | Wt. Oz. |
|----------|------------|-------|-------|------|-----|-----|------|---------|
| | A | B | C | D | E | F | G | |
| MRE 50B | 1.06 | .688 | 3.031 | 3.44 | .13 | .28 | .78 | .4 |
| MRE 75B | 1.48 | 1.047 | 3.062 | 3.56 | .14 | .30 | 1.14 | .6 |

Ordering Information

Omit steps not required



Notes: 1. Contacts are ordered separately. See 100 Series contact section of Rack & Panel
2. When ordering molding less hardware and hood for use with JTD Monojacks, connectors must be ordered as follows:
Pin connector = MRAC 34P8, MRAC 42P8, etc.
Socket connector = MRAC 34S8, MRAC 42S8, etc.
The number "8" indicates special housing for use with the JTD Monojack hardware (available on sizes 34, 42, 50, 66, 75 and 104).

External Miniature Rectangular, Removable Contacts



XAC34SF2A010

XAC34PM1A000

XAC34PC1A700

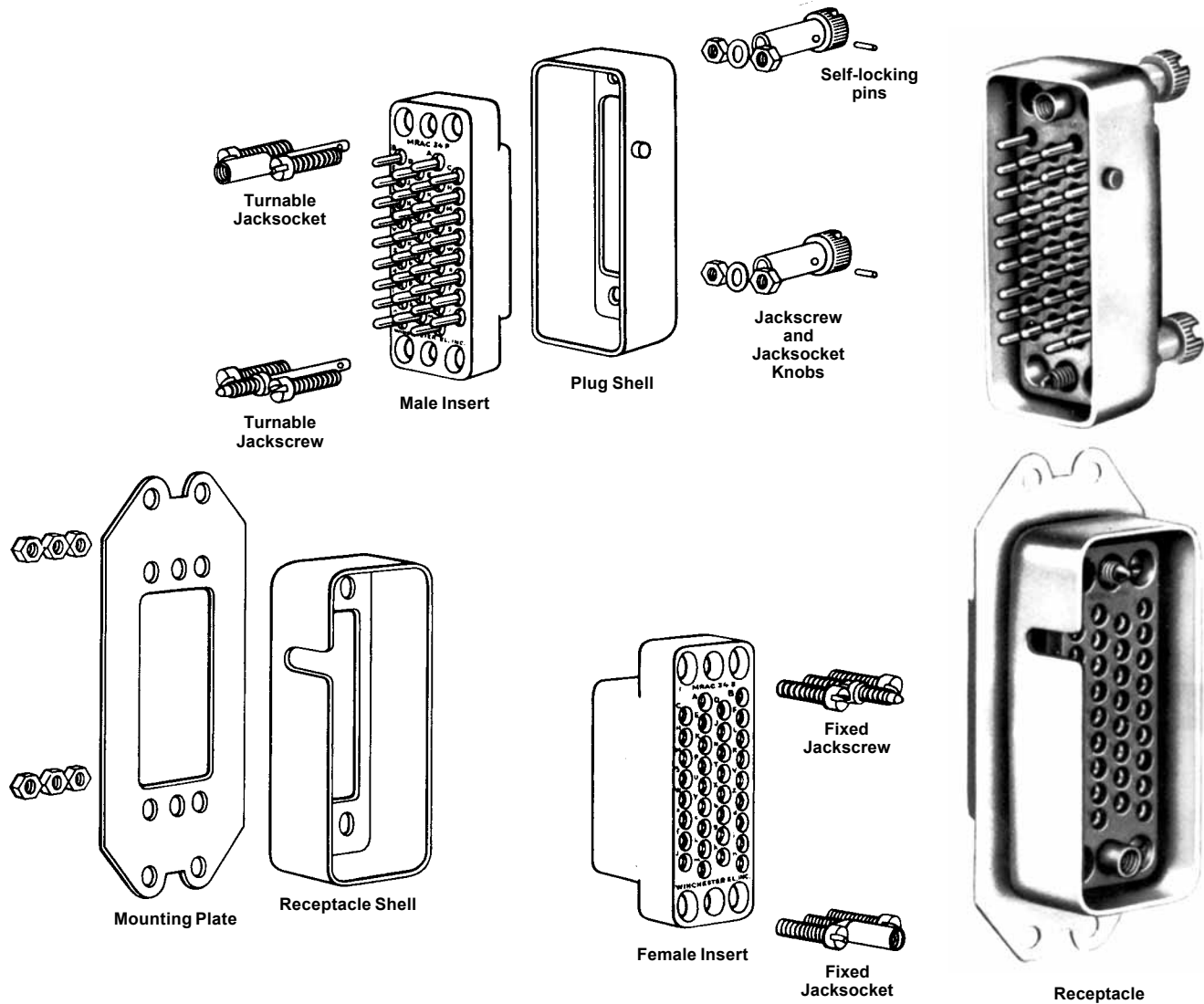
Designed for external installation, the XAC is the MRAC removable contact connector equipped with protective shells and mounting plates for chassis or cable mounting on metal containers, bulkheads, or any outside surface

equipment. Lighter and smaller than other external connectors, they provide dependable service under adverse conditions. Inserts are housed in protective shells and there is screw lock coupling of plug and receptacle.

Specifications

| | | | |
|-------------------------|---|----------------------|--|
| Current Rating: | Up to 13 amps | Dielectric: | Diallyl Phthalate, MIL-M-14, Type SDG-F, Color Gray |
| No. of Contacts: | 9, 14, 18, 20, 26, 34, 42, 50, 66, 75, 104 | Polarization: | Seven positions available for pin and slot polarization on shells. Additional polarization can be provided with various arrangements of jackscrews and guides. |
| Contacts: | Contacts must be ordered separately. Select from crimp, solder, dip solder, shielded or wire wrap terminations. | Accessories: | Shells, formed and drawn hoods, mounting plates, jackscrews and jacksockets. |
| Electrical Data: | Meets high potential performance requirements of MIL-C-28748. The dielectric withstanding voltage is one minute electrification at 2000 VAC. Military versions are QPL'd to M28748/3 and M28748/4. | | |

| CATALOG NO. | | CATALOG NO. | | CATALOG NO. | |
|---------------|--------------|---------------|-------------|--------------|------------|
| XAC9-0300X | MS 18192-T8 | XMRE75-0400XS | MS 18192SXX | XJMS603P | MS 18196-3 |
| XAC14-0300X | MS 18192-T1 | XMRE75-0400XP | MS 18192-S6 | XJMS603S | MS 18196-4 |
| XAC20-0300X | MS 18192-T2 | XMRA66-0700 | MS 18193-T1 | XNMS700P | MS 18197-1 |
| XMRE9-0400X | MS 18192-S8 | XMRA66-0800 | MS 18193-S1 | XNMS700S | MS 18197-2 |
| XMRE14-0400X | MS 18192-S1 | XMRA 104-0700 | MS 18193-T2 | XNMS702P | MS 18197-3 |
| XMRE20-0400X | MS 18192-S2 | XMRA 104-0800 | MS 18193-S2 | XNMS702-S | MS 18197-4 |
| XMRE26-0300X | MS18192-T9 | XJTCMS605P | MS 18194-1 | XMRA 14-0010 | MS 18198-1 |
| XMRE26-0400X | MS 18192-S9 | XJTCMS605S | MS 18194-2 | XMRA 20-0010 | MS 18198-2 |
| XMRE34-0300X | MS18192-T3 | XJTCMS608P | MS 18194-3 | XMRA 34-0010 | MS 18199-1 |
| XMRE34-0400X | MS 18192-S3 | XJTCMS608S | MS 18194-4 | XMRA42-0010 | MS 18199-2 |
| XMRE42-0300X | MS 18192-T4 | XJTMS605P | MS 18195-1 | XMRA50-0010 | MS 18199-3 |
| XMRE42-0400X | MS 18192-S4 | XJTMS605S | MS 18195-2 | XMRA75-0010 | MS 18199-4 |
| XMRE50-0300X | MS18192-T5 | XJTMS606P | MS 18195-3 | XMRA66-0010 | MS 18200-1 |
| XMRE50-0400X | MS 18192-S5 | XJTMS606S | MS 18195-4 | XMRA104-0010 | MS 18200-2 |
| XMRE75-0300XP | MS 18192-T6 | XJMS602P | MS 18196-1 | | |
| XMRE75-0300XS | MS 18192-TXX | XJMS602S | MS 18196-2 | | |



Definition of Connector Terms

Plug: The complete connector half which has the plug shell as part of its assembly.

Receptacle: The complete connector half which has the receptacle shell as part of its assembly.

Shell: The metal housing in which a male or female insert is assembled. A shell is either a plug shell or a receptacle shell:

Plug Shell - one which is designed to be inserted into a receptacle shell.

Receptacle Shell - one which is designed to receive and enclose the plug shell upon engagement.

Male Insert: The molded insulator body containing pin contacts.

Female Insert: The molded insulator body containing socket contacts.

Pin Contacts: Male Contacts that fit into the socket contacts.

Socket Contacts: Female Contacts tubular in shape, which receive the pin contacts and retain them by spring tension.

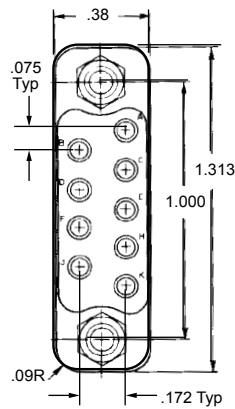
Polarization: A means of controlling the engagement of a plug and receptacle so that correct mating of the contacts is achieved.

Accessories: Those components such as hoods and mounting plates which are attachable to a plug or receptacle to facilitate mounting and/or handling of the connector, and to prevent inadvertent cross-mating.

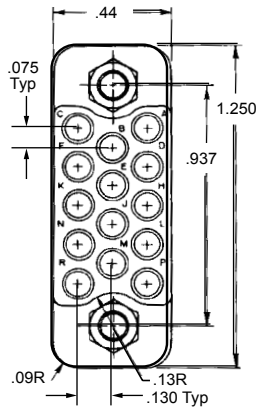
Contact Arrangements

External Miniature Rectangular, Removable Contacts

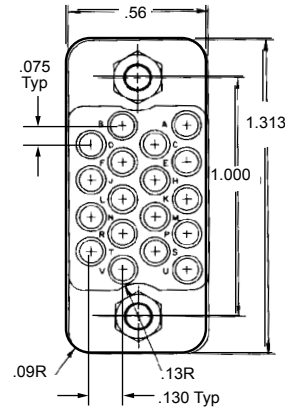
Dimensions are for reference only and are subject to change. Outline drawings on request.
Views are rear (wiring end) of female inserts. (Male inserts are opposite.)



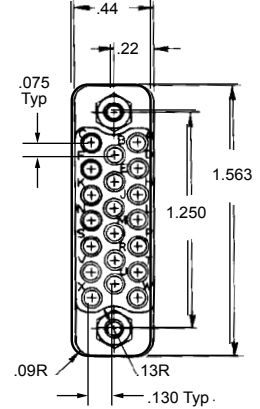
XAC 9



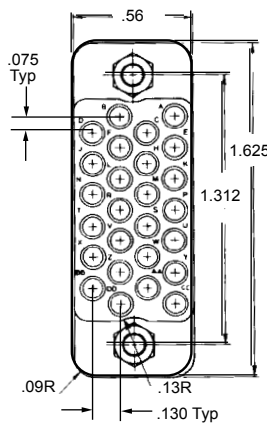
XAC 14



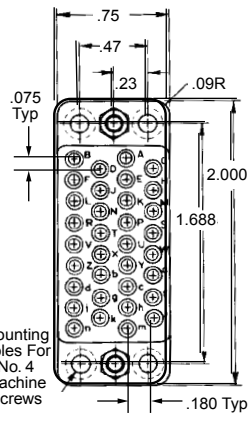
XAC 18



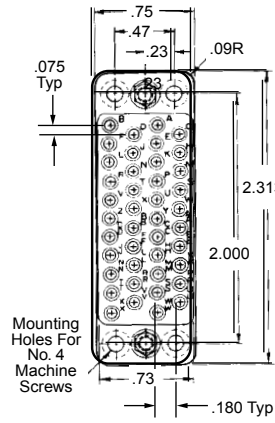
XAC 20



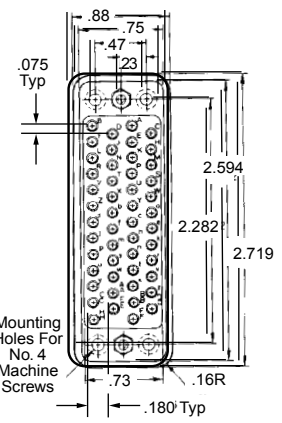
XAC 26



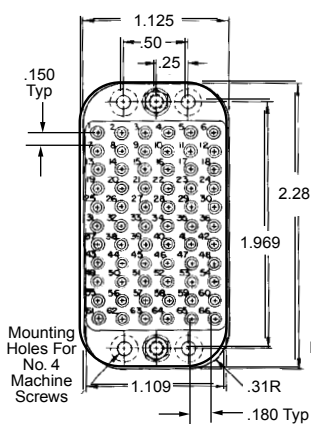
XAC 34*



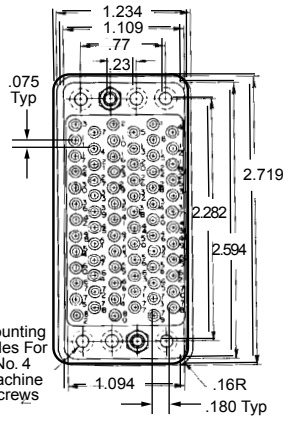
XAC 42



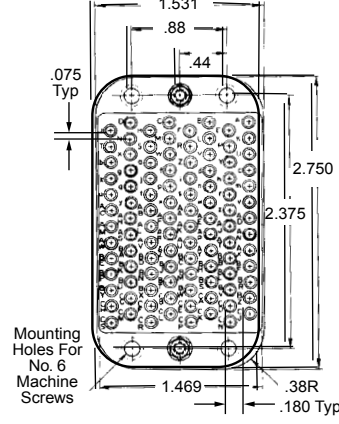
XAC 50*



XAC 66



XAC 75



XAC 104*

*For numerical contact identification instead of alphabetical, order XNAC**P or S available in sizes 34, 50, and 104.

Sizes 66 and 75 have numerical contact identification as standard.

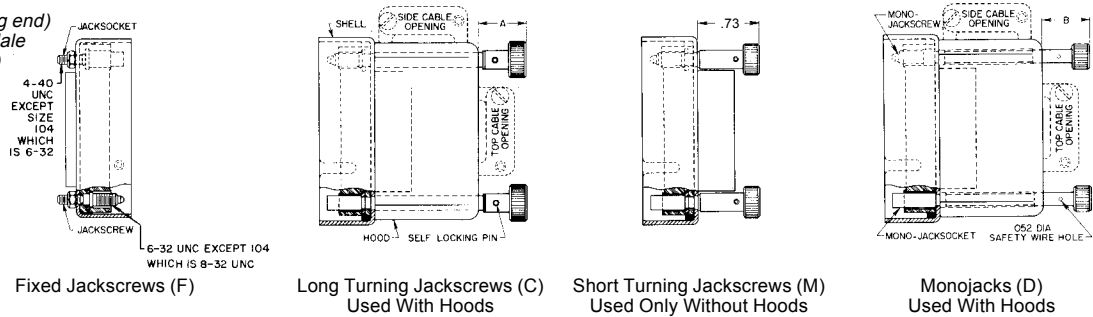
The spacing, arrangement, and identification of contacts of the XAC inserts are the same as those found on the Series MRAC removable contact connectors for the same number of contacts.

Jackscrew & Jacksockets

External Miniature Rectangular, Removable Contacts

Dimensions are for reference only and are subject to change. Outline drawings on request.

Views are rear (wiring end) of female inserts. (Male inserts are opposite.)



Specifications

Turnable jackscrew-jacksocket combination (M, C, or D) assemblies on either Plug or Receptacle; the mating connector-half (either Receptacle or Plug) must then contain fixed jackscrew-jacksocket combination (F).

Both short and long turning jackscrews (M and C) have knurled and slotted knobs for locking by hand or screwdriver. Knob is assembled on shaft with hollow, removable, self-locking pin. Safety wiring of engaged halves is achieved by using the through-hole in self-locking pin in the knob.

Monojacks (D) are long turning one-piece locking devices with slotted and knurled head. Shaft has through-hole for safety wire. available with hoods only, in sizes 34, 42, 50, 66, 75, and 104.

Drawings show extension of standard knobs beyond shell and beyond hood.

Applications

Jackscrew locking device assures positive coupling of engaged connectors to prevent accidental disconnecting from vibration or physical shock. It also aids easy connection and separation of connector plug and receptacle. Mounted connector-half houses one non-turnable fixed jackscrew and jacksocket to insure connector polarization. Mating-half houses one of the three types of turning jackscrew and jacksocket (M, C, or D).

| LOCKING DEVICE | SPECIFICATIONS | | |
|--|----------------|-------------------------|--------------------------------------|
| | CODE LETTER | WT. OZ. See Notes 1 & 2 | MATERIAL AND FINISH |
| Jackscrew } Fixed Jacksocket } | F | 0.15 | Nickel Plated Brass |
| Jackscrew } Short Jacksocket } Turnable | M | 0.30 | Stainless Steel with Passivating Dip |
| Jackscrew } Long Jacksocket } Turnable | C | 0.45 | Stainless Steel with Passivating Dip |
| Mono-Jackscrew Long Turnable Mono-Jacksocket | D | 1.07 | Nickel Plated Brass |
| Knob Standard | — | — | Aluminum Anodized |

Note 1: Weights are for pairs; i.e. for a jackscrew and jacksocket, etc., so weight figure may be added once to weights of other accessories when computing total weight of plug or receptacle.

Note 2: Weights of turnable jackscrews and turnable jacksockets include knob and rollpins, except mono-jackscrew and mono-jacksocket, which is a one-piece construction (shaft and knob made in one piece); weight of fixed jackscrew and jacksocket includes nuts.

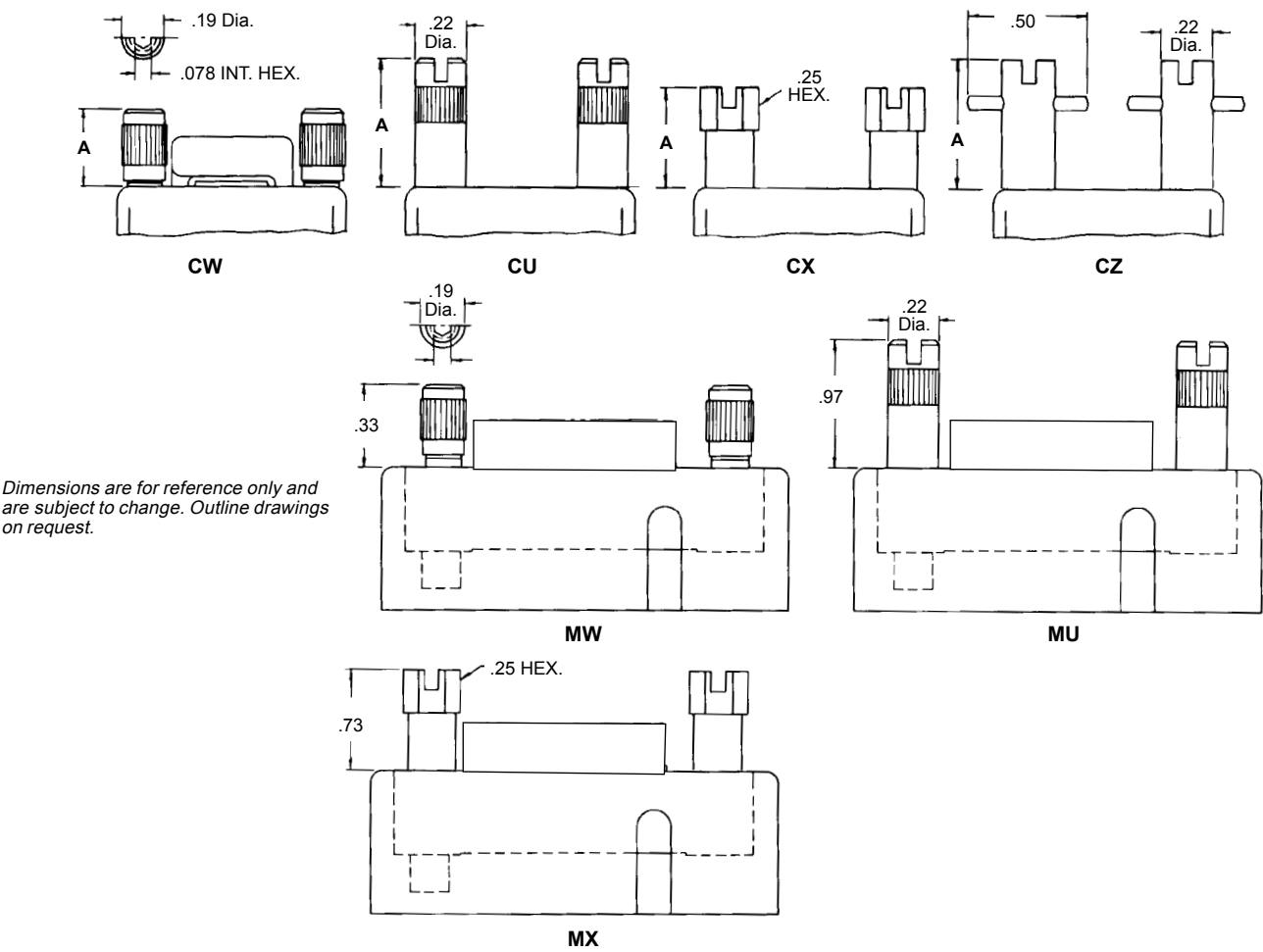
Dimensions

Standard Knobs - Extension Beyond Hood

| XAC | Dimension A | | | | | | | | | | Dimension B | | | | | | | | | |
|------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------|-----|-----|-----|-----|-----|-----|--|--|--|
| | 9* | 14* | 18* | 20* | 26 | 34 | 42 | 50 | 66 | 75 | 104 | 34 | 42 | 50 | 66 | 75 | 104 | | | |
| 0300 | .55 | .55 | .55 | .55 | .77 | .58 | .53 | .53 | — | .52 | — | .59 | .55 | .55 | — | .53 | — | | | |
| 0400 | .55 | .55 | .55 | .55 | .55 | .58 | .53 | .53 | — | .52 | — | .59 | .55 | .55 | — | .53 | — | | | |
| 0700 | — | — | — | — | — | .58 | — | — | .64 | — | .52 | — | — | — | .38 | — | .38 | | | |
| 0800 | — | — | — | — | — | .58 | — | — | .64 | — | .52 | — | — | — | .38 | — | .38 | | | |

*On sizes 9, 14, 18, and 20, only large top opening hoods are available when (c) long turning jackscrews are used. Catalog Number for large top opening hoods is - 0300X. Example: XAC20-0300X

Outline – Jackscrews



Dimensions are for reference only and are subject to change. Outline drawings on request.

Dimensions

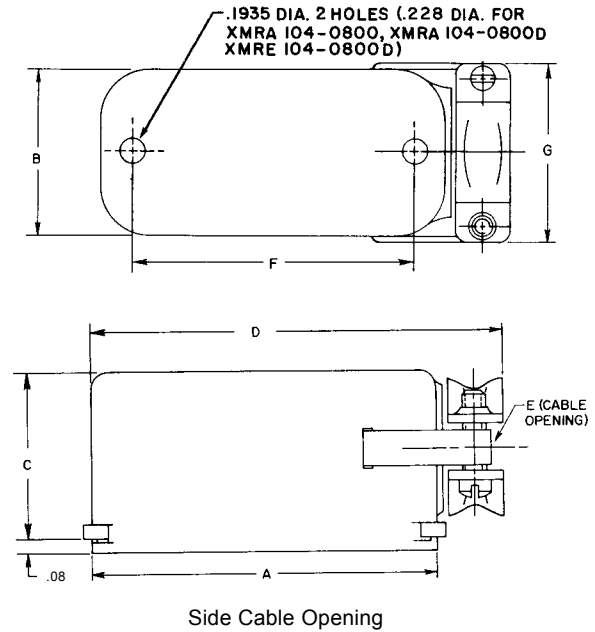
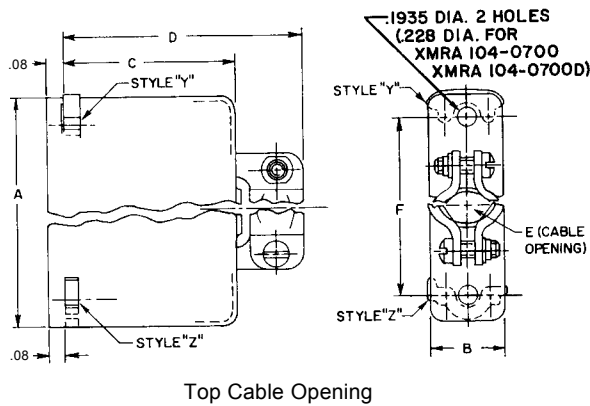
All jackscrews and sockets are stainless steel, passivated (except F & D which are nickel plated brass). All knobs are aluminum, anodized except MW and CW which are stainless steel, passivated.

| Size | Hoods | | | | | | Size | Hoods | | | | | |
|-----------------------|-------|------|-------|-------|------|------|-----------------------|-------|------|-------|-------|------|------|
| | 0300 | 0400 | 0300X | 0400X | 0700 | 0800 | | 0300 | 0400 | 0300X | 0400X | 0700 | 0800 |
| Dimension A – Type CW | | | | | | | Dimension A – Type CX | | | | | | |
| 9 | – | .36 | .36 | .36 | – | – | 9 | – | .48 | .48 | .48 | – | – |
| 14 | – | .36 | .36 | .36 | – | – | 14 | – | .48 | .48 | .48 | – | – |
| 18 | – | .36 | .36 | .36 | – | – | 18 | – | .48 | .48 | .48 | – | – |
| 20 | – | .36 | .36 | .36 | – | – | 20 | – | .48 | .48 | .48 | – | – |
| 26 | .36 | .36 | .36 | .36 | – | – | 26 | .77 | .48 | .48 | .48 | – | – |
| 34 | .39 | .39 | .39 | .39 | .47 | .47 | 34 | .52 | .52 | .52 | .52 | .61 | .61 |
| 42 | .34 | .34 | .34 | .34 | – | – | 42 | .47 | .47 | .47 | .47 | – | – |
| 50 | .34 | .34 | .34 | .34 | – | – | 50 | .47 | .47 | .47 | .47 | – | – |
| 66 | – | – | – | – | .47 | .47 | 66 | – | – | – | – | .61 | .61 |
| 75 | .33 | .33 | .33 | .33 | – | – | 75 | .45 | .45 | .45 | .45 | – | – |
| Dimension A – Type CU | | | | | | | Dimension A – Type CZ | | | | | | |
| 9 | – | .61 | .61 | .61 | – | – | 9 | – | .61 | .61 | .61 | – | – |
| 14 | – | .61 | .61 | .61 | – | – | 14 | – | .61 | .61 | .61 | – | – |
| 18 | – | .61 | .61 | .61 | – | – | 18 | – | .61 | .61 | .61 | – | – |
| 20 | – | .61 | .61 | .61 | – | – | 20 | – | .61 | .61 | .61 | – | – |
| 26 | .61 | .61 | .61 | .61 | – | – | 26 | .92 | .61 | .61 | .61 | – | – |
| 34 | .64 | .64 | .64 | .64 | .72 | .72 | 34 | .64 | .64 | .64 | .64 | .72 | .72 |
| 42 | .59 | .59 | .59 | .59 | – | – | 42 | .59 | .59 | .59 | .59 | – | – |
| 50 | .59 | .59 | .59 | .59 | – | – | 50 | .59 | .59 | .59 | .59 | – | – |
| 66 | – | – | – | – | .72 | .72 | 66 | – | – | – | – | .72 | .72 |
| 75 | .58 | .58 | .58 | .58 | – | – | 75 | .58 | .58 | .58 | .58 | – | – |

Outline Hoods- Drawn Aluminum

Dimensions are for reference only and are subject to change. Outline drawings on request.

The XAC Series uses standard XMRA/XMRE protective hardware. To order separately, use XMRE/XMRA catalog numbers indicated.



Dimensions

XMRA Drawn Hoods for use with XAC Connectors.

Hoods - Side Cable Opening

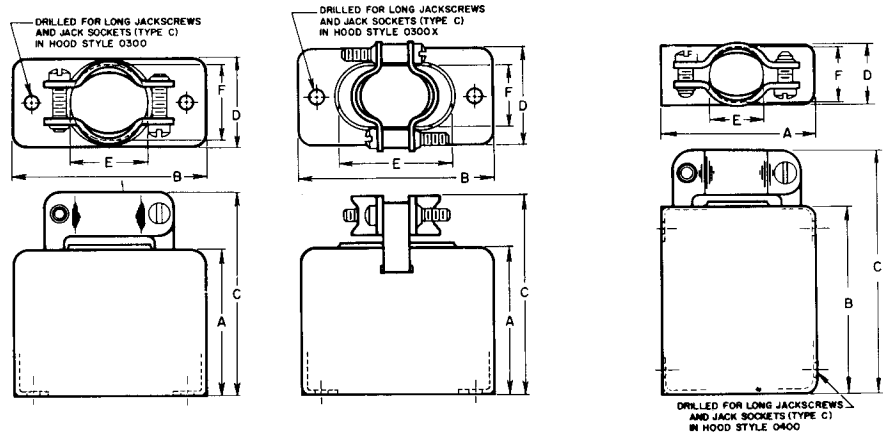
| For Use With | Hood Part No. (If ordered separately) | DIMENSIONS | | | | | | |
|------------------------------------|---------------------------------------|------------|------|------|------|---------|-------|------|
| | | A | B | C | D | E | F | G |
| Type C Jack Sockets and Jackscrews | XMRA 34-0800 | 2.09 | .84 | 1.17 | 2.58 | .64x.75 | 1.688 | 1.06 |
| | XMRA 66-0800 | 2.38 | 1.22 | 1.17 | 2.91 | .84D | 1.969 | 1.34 |
| | XMRA 104-0800 | 2.84 | 1.63 | 2.23 | 3.38 | 1.19D | 2.375 | 1.63 |
| Type D Jack Sockets and Jackscrews | XMRA 34-0800D | 2.09 | .84 | 1.17 | 2.58 | .64x.75 | 1.688 | 1.06 |
| | XMRA 66-0800D | 2.38 | 1.22 | 1.17 | 2.91 | .84D | 1.969 | 1.34 |
| | XMRA 104-0800D | 2.84 | 1.63 | 2.23 | 3.38 | 1.19D | 2.375 | 1.63 |
| Type F Jackscrews | XMRA 34-0200 | 2.09 | .84 | 1.17 | 2.58 | .64x.75 | — | 1.06 |
| | XMRA 66-0200 | 2.38 | 1.22 | 1.17 | 2.91 | .84D | — | 1.34 |
| | XMRA 104-0200 | 2.84 | 1.63 | 2.23 | 3.38 | 1.19D | — | 1.63 |

Hoods - Top Cable Opening

| For Use With | Hood Part No. (If ordered separately) | DIMENSIONS | | | | | |
|------------------------------------|---------------------------------------|------------|------|------|------|---------|-------|
| | | A | B | C | D | E | F |
| Type C Jack Sockets and Jackscrews | XMRA 34-0700 | 2.09 | .84 | 1.17 | 1.59 | .66x.75 | 1.688 |
| | XMRA 66-0700 | 2.38 | 1.22 | 1.17 | 1.69 | 1.03D | 1.969 |
| | XMRA 104-0700 | 2.84 | 1.63 | 2.23 | 2.75 | 1.19D | 2.375 |
| Type D Jack Sockets and Jackscrews | XMRA 34-0700D | 2.09 | .84 | 1.17 | 1.59 | .66x.75 | 1.688 |
| | XMRA 66-0700D | 2.38 | 1.22 | 1.17 | 1.69 | 1.03D | 1.969 |
| | XMRA 104-0700D | 2.84 | 1.63 | 2.23 | 2.75 | 1.19D | 2.375 |
| Type F Jackscrews | XMRA 34-0900 | 2.09 | .84 | 1.17 | 1.59 | .66x.75 | — |
| | XMRA 66-0900 | 2.38 | 1.22 | 1.17 | 1.69 | 1.03D | — |
| | XMRA 104-0900 | 2.84 | 1.63 | 2.23 | 2.75 | 1.19D | — |

Outline Hoods- Formed Aluminum

Dimensions are for reference only and are subject to change. Outline drawings on request.



Top Cable Opening

Large Top Cable Opening

Side Cable Opening

Dimensions

XMRE Formed Hoods for use with XAC Connectors

Hoods - Top Cable Opening

| For use with Monojacks | For use with Type C Jacksockets & Jackscrews | For use with Fixed Jackscrews* | Dimensions | | | | Cable Opening | | Wt. Oz. (Inc. 2 Cable Clamps and Screws) |
|------------------------|--|--------------------------------|------------|------|------|------|---------------|--------|--|
| | Hood Part No. (If ordered separately) | | A | B | C | D | E Dia. | F Dia. | |
| | XAC 9-0300X | XAC 9-0500XJ | 1.28 | 1.31 | 1.58 | .44 | .59 | .31 | 0.3 |
| | XAC 14-0300X | XAC 14-0500XJ | 1.28 | 1.25 | 1.58 | .50 | .59 | .38 | 0.3 |
| | XAC 18-0300X | XAC 18-0500XJ | 1.28 | 1.31 | 1.78 | .63 | .61 | .44 | 0.4 |
| | XAC 20-0300X | XAC 20-0500XJ | 1.28 | 1.56 | 1.58 | .50 | .66 | .38 | 0.3 |
| | XMRE 26-0300 | XMRE 26-0500J | 1.28 | 1.63 | 1.72 | .64 | .59 | .38 | |
| | XMRE 26-0300X | XMRE 26-0500XJ | 1.28 | 1.63 | 1.78 | .64 | .78 | .44 | 0.4 |
| XMRE 34-0300D | XMRE 34-0300 | XMRE 34-0500J | 1.25 | 2 | 1.69 | .83 | .66 | — | |
| XMRE 34-0300XD | XMRE 34-0300X | XMRE 34-0500XJ | 1.25 | 2 | 1.75 | .83 | 1.06 | .56 | 0.6 |
| XMRE 42-0300D | XMRE 42-0300 | XMRE 42-0500J | 1.30 | 2.31 | 1.73 | .83 | .63 | — | |
| XMRE 42-0300XD | XMRE 42-0300X | XMRE 42-0500XJ | 1.30 | 2.31 | 1.80 | .83 | 1.06 | .56 | 0.7 |
| XMRE 50-0300D | XMRE 50-0300 | XMRE 50-0500J | 1.30 | 2.59 | 1.73 | .83 | .63 | — | |
| XMRE 50-0300XD | XMRE 50-0300X | XMRE 50-0500XJ | 1.30 | 2.59 | 1.80 | .83 | 1.06 | .56 | 0.8 |
| XMRE 75-0300D | XMRE 75-0300 | XMRE 75-0500J | 1.31 | 2.59 | 1.75 | 1.19 | .63 | .88 | |
| XMRE 75-0300XD | XMRE 75-0300X | XMRE 75-0500XJ | 1.31 | 2.59 | 1.86 | 1.19 | 1 | .88 | 1.0 |

* For use with G, K, or N guides, eliminate letter "J" from part number

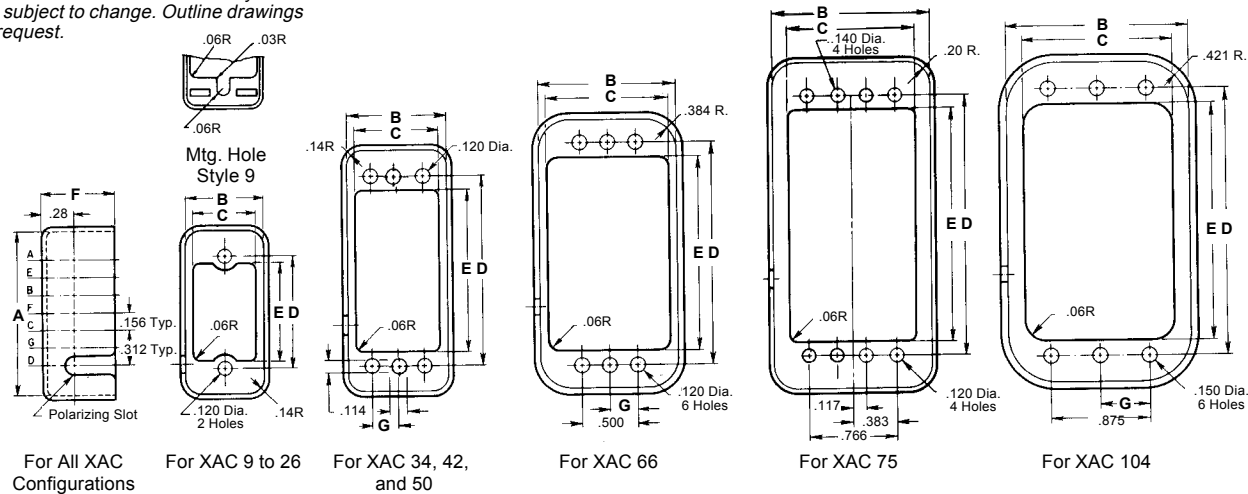
Hoods - Side Cable Opening

| For use with Monojacks | For use with Type C Jacksockets & Jackscrews | For use with Fixed Jackscrews* | Dimensions | | | | Cable Opening | | Wt. Oz. (Inc. 2 Cable Clamps and Screws) |
|------------------------|--|--------------------------------|------------|------|------|------|---------------|--------|--|
| | Hood Part No. (If ordered separately) | | A | B | C | D | E Dia. | F Dia. | |
| | XMRE 9-0400 | XMRE 9-0600J | 1.28 | 1.31 | 1.63 | .44 | .31 | — | |
| | XMRE 9-0400X | XMRE 9-0600XJ | 1.28 | 1.31 | 1.61 | .44 | .59 | .31 | 0.3 |
| | XMRE 14-0400 | XMRE 14-0600J | 1.28 | 1.25 | 1.69 | .5 | .38 | — | |
| | XMRE 14-0400X | XMRE 14-0600XJ | 1.28 | 1.25 | 1.55 | .5 | .59 | .38 | 0.3 |
| | XMRE 18-0400 | XMRE 18-0600J | 1.28 | 1.31 | 1.75 | .38 | .44 | — | |
| | XMRE 18-0400X | XMRE 18-0600XJ | 1.28 | 1.31 | 1.81 | .38 | .69 | .44 | 0.4 |
| | XMRE 20-0400 | XMRE 20-0600J | 1.28 | 1.56 | 2 | .5 | .38 | — | |
| | XMRE 20-0400X | XMRE 20-0600XJ | 1.28 | 1.56 | 1.86 | .5 | .66 | .38 | 0.3 |
| | XMRE 26-0400 | XMRE 26-0600J | 1.28 | 1.63 | 2.06 | .64 | .59 | .38 | |
| | XMRE 26-0400X | XMRE 26-0600XJ | 1.28 | 1.63 | 2.13 | .64 | .78 | .44 | 0.4 |
| XMRE 34-0400D | XMRE 34-0400 | XMRE 34-0600J | 1.25 | 2 | 2.42 | .83 | .66 | — | |
| XMRE 34-0400XD | XMRE 34-0400X | XMRE 34-0600XJ | 1.25 | 2 | 2.50 | .83 | .81 | .56 | 0.6 |
| XMRE 42-0400D | XMRE 42-0400 | XMRE 42-0600J | 1.30 | 2.31 | 2.73 | .83 | .63 | .5 | |
| XMRE 42-0400XD | XMRE 42-0400X | XMRE 42-0600XJ | 1.30 | 2.31 | 2.81 | .83 | .84 | .56 | 0.7 |
| XMRE 50-0400D | XMRE 50-0400 | XMRE 50-0600J | 1.30 | 2.59 | 3.02 | .83 | .63 | .5 | |
| XMRE 50-0400XD | XMRE 50-0400X | XMRE 50-0600XJ | 1.30 | 2.59 | 3.09 | .83 | 1.06 | .56 | 0.8 |
| XMRE 75-0400D | XMRE 75-0400 | XMRE 75-0600J | 1.31 | 2.59 | 3.02 | 1.19 | .63 | .88 | |
| XMRE 75-0400XD | XMRE 75-0400X | XMRE 75-0600XJ | 1.31 | 2.59 | 3.14 | 1.19 | 1 | .88 | 1.0 |

* For use with G, K, or N guides, eliminate letter "J" from part number

Outline Shells- Receptacles

Dimensions are for reference only and are subject to change. Outline drawings on request.



Dimensions Shells - Receptacles

Important Note When Ordering Plug and Receptacle Shells

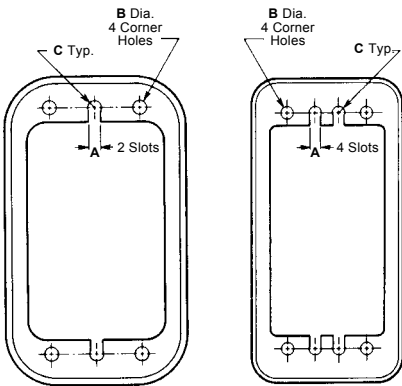
The shell part numbers given in the table show an asterisk (*) where the code letter for the desired polarizing position belongs - example: XMRE9-2*000 becomes XMRE9-2B000 when polarization in position "B" is desired. Specify the same position on the mating shell. For non-polarized shells, merely omit this position, e.g. XMRE9-2000.

TYPICAL SHELLS FOR MONOJACKS STYLE No. 4000

Shells are .040 in. thick. Shells are aluminum, anodized for protection against corrosion. Either shell style - plug or receptacle - may be used to house the female insert, thus allowing the "live" socket contacts to be cable or panel mounted, as desired. Shells also provide a means by which connector polarization is accomplished - the receptacle shell is slotted for engaging a polarizing pin on the plug shell. Any of seven positions (A, B, C, D, E, F or G) may be specified for polarization; non-polarized shells have the slot and pin omitted.

| Shell Part No. (if ordered separately) | DIMENSIONS | | | | | | | Wt. Oz. |
|---|------------|------|------|-------|------|-----|------|------------|
| | A | B | C | D | E | F | G | |
| XMRE 9-2*000 | 1.45 | .52 | .38 | 1.000 | .88 | .66 | — | 0.15 |
| XMRE 14-2*000 | 1.39 | .58 | .45 | .937 | .81 | .66 | — | 0.16 |
| XMRE 18-2*000 | 1.45 | .70 | .58 | 1.000 | .88 | .66 | — | 0.17 |
| XMRE 20-2*000 | 1.70 | .58 | .45 | 1.250 | 1.13 | .66 | — | 0.19 |
| XMRE 26-2*000 | 1.77 | .70 | .58 | 1.312 | 1.19 | .66 | — | 0.23 |
| XMRE 34-2*000 | 2.14 | .89 | .75 | 1.687 | 1.44 | .66 | .234 | 0.25 |
| XMRE 34-4*000 | 2.14 | .89 | .75 | 1.687 | 1.44 | .66 | .234 | 0.25 |
| XMRE 42-2*000 | 2.45 | .89 | .75 | 2.000 | 1.75 | .66 | .234 | 0.28 |
| XMRE 42-4*000 | 2.45 | .89 | .75 | 2.000 | 1.75 | .66 | .234 | 0.28 |
| XMRE 50-2*000 | 2.86 | 1.02 | .75 | 2.282 | 2.03 | .66 | .234 | 0.30 |
| XMRE 50-4*000 | 2.86 | 1.02 | .75 | 2.282 | 2.03 | .66 | .234 | 0.30 |
| XMRA 66-2*000 | 2.42 | 1.27 | 1.13 | 1.969 | 1.72 | .66 | .250 | 0.28 |
| XMRA 66-4*000 | 2.42 | 1.27 | 1.13 | 1.969 | 1.72 | .66 | .250 | 0.28 |
| XMRE 75-2*000 | 2.86 | 1.38 | 1.11 | 2.282 | 2.03 | .66 | — | 0.32 |
| XMRE 75-4*000 | 2.86 | 1.38 | 1.11 | 2.282 | 2.03 | .66 | — | 0.32 |
| XMRA 104-2*000 | 2.91 | 1.69 | 1.48 | 2.375 | 2.13 | .66 | .437 | 0.30 |
| XMRA 104-4*000 | 2.91 | 1.69 | 1.48 | 2.375 | 2.13 | .66 | .437 | 0.30 |

| For Connector Size | A | B | C |
|--------------------|-----|------|------|
| 34, 42, 50, 66, 75 | .11 | .120 | .06R |
| 104 | .14 | .150 | .07R |



For XAC 34, 42, 50, 66, and 104 Configurations

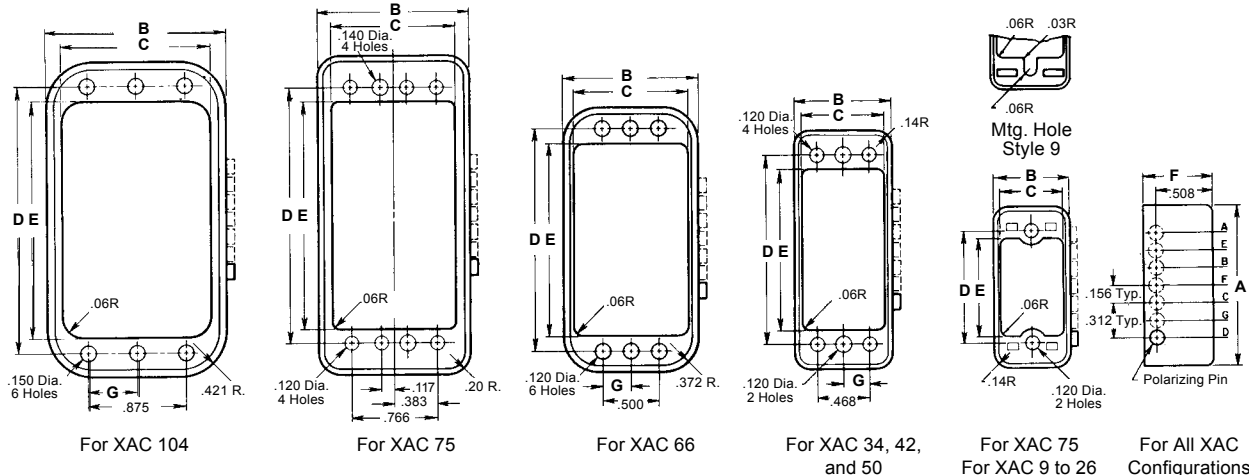
For XAC 75 Configuration



Receptacle Shell Style No. 2000
Shells are .040 in. thick.

Outline Shells – Plugs

Dimensions are for reference only and are subject to change. Outline drawings on request.



Dimensions

Important Note When Ordering Plug Shells

The shell part numbers given in the table shows an asterisk (*) where the code letter for the desired polarizing position belongs - example: XMRE9-1*000 becomes XMRE9-1B000 when polarization in position "B" is desired. Specify the same position on the mating shell.

For non-polarized shells, merely omit this position, e.g. XMRE9-1000.

Shells are .040 in. thick.

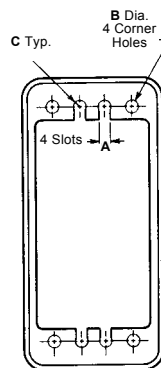
Stainless steel shells available for 66 and 104 sizes. Dimensions vary from those shown for aluminum shells. Check sales for availability and dimensions on all sizes.

| Shell Part No. (If ordered separately) | DIMENSIONS | | | | | | | Wt. Oz. |
|---|------------|------|------|-------|------|-----|------|------------|
| | A | B | C | D | E | F | G | |
| XMRE 9-1*000 | 1.44 | .5 | .38 | 1.000 | .88 | .63 | — | 0.14 |
| XMRE 14-1*000 | 1.38 | .56 | .45 | .937 | .81 | .63 | — | 0.15 |
| XMRE 18-1*000 | 1.44 | .69 | .58 | 1.000 | .88 | .63 | — | 0.16 |
| XMRE 20-1*000 | 1.69 | .56 | .45 | 1.250 | 1.13 | .63 | — | 0.18 |
| XMRE 26-1*000 | 1.75 | .69 | .58 | 1.312 | 1.19 | .63 | — | 0.22 |
| XMRE 34-1*000 | 2.13 | .88 | .75 | 1.687 | 1.44 | .66 | .234 | 0.24 |
| XMRE 42-1*000 | 2.44 | .88 | .75 | 2.000 | 1.75 | .66 | .234 | 0.26 |
| XMRE 50-1*000 | 2.84 | 1 | .75 | 2.282 | 2.03 | .66 | .234 | 0.28 |
| XMRE 50-3*000 | 2.84 | 1 | .75 | 2.282 | 2.03 | .66 | .234 | 0.28 |
| XMRA 66-1*000 | 2.41 | 1.25 | 1.13 | 1.969 | 1.72 | .66 | .250 | 0.28 |
| XMRA 66-3*000 | 2.41 | 1.25 | 1.13 | 1.969 | 1.72 | .66 | .250 | 0.28 |
| XMRE 75-1*000 | 2.84 | 1.36 | 1.11 | 2.282 | 2.03 | .66 | — | 0.30 |
| XMRE 75-3*000 | 2.84 | 1.36 | 1.11 | 2.282 | 2.03 | .66 | — | 0.30 |
| XMRA 104-1*000 | 2.88 | 1.66 | 1.48 | 2.375 | 2.13 | .66 | .437 | 0.30 |
| XMRA 104-3*000 | 2.88 | 1.66 | 1.48 | 2.375 | 2.13 | .66 | .437 | 0.30 |

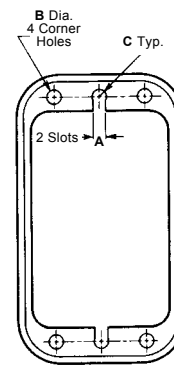
TYPICAL SHELLS FOR MONOJACKS STYLE No. 3000

Shells are aluminum, anodized for protection against corrosion. Either shell style - plug or receptacle - may be used to house the female insert, thus allowing the "live" socket contacts to be cable or panel mounted, as desired. Shells also provide a means by which connector polarization is accomplished - the receptacle shell is slotted for engaging a polarizing pin on the plug shell. Any of seven positions (A, B, C, D, E, F or G) may be specified for polarization; non-polarized shells have the slot and pin omitted.

| For Connector Size | A | B | C |
|--------------------|-----|------|------|
| 34, 42, 50, 66, 75 | .11 | .120 | .06R |
| 104 | .14 | .150 | .07R |



For XAC 75 Configuration



For XAC 34, 42, 50, 66, and 104 Configurations

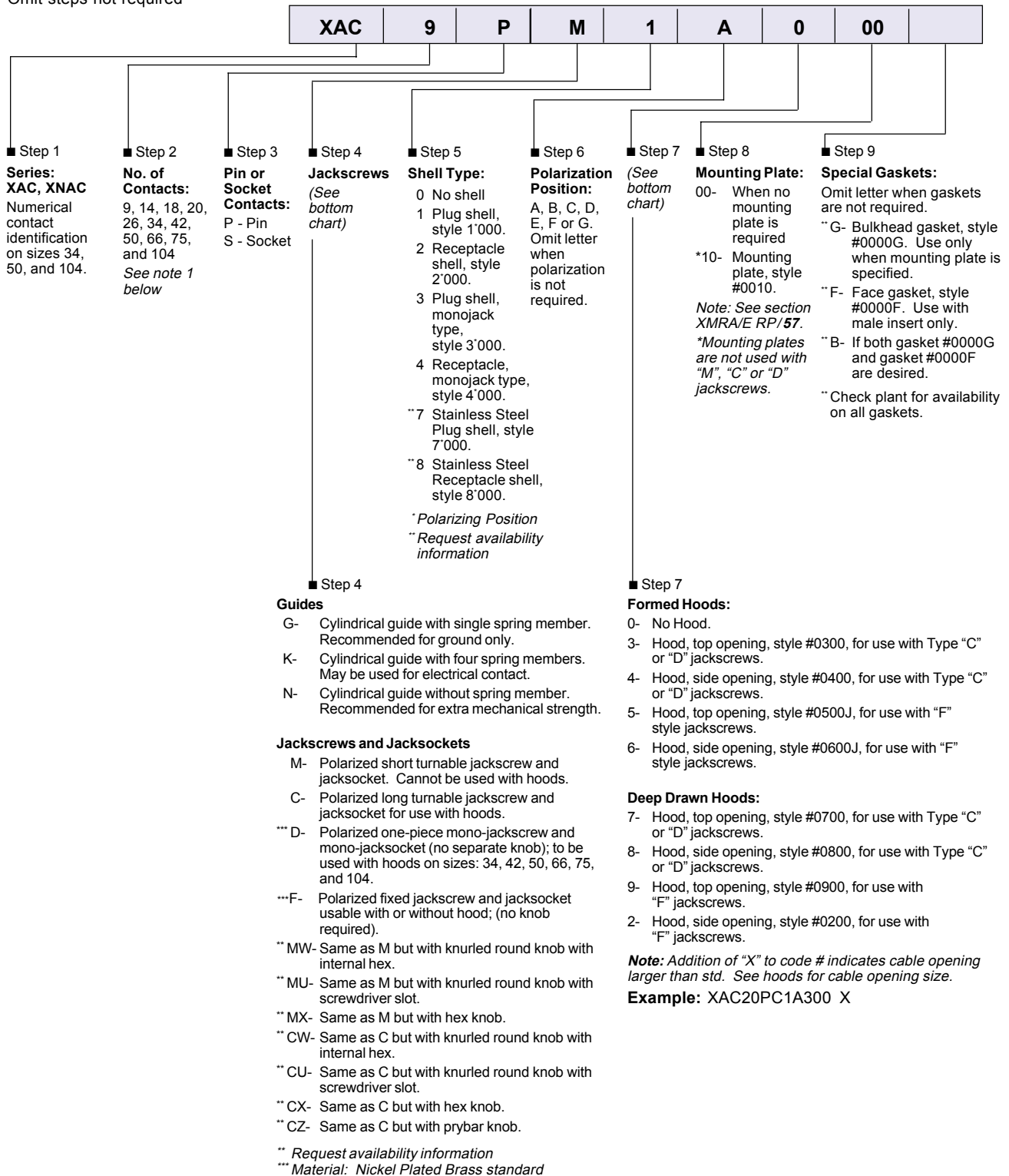


Plug Shell Style No. 1000

Shells are .040 in. thick.

Ordering Informations

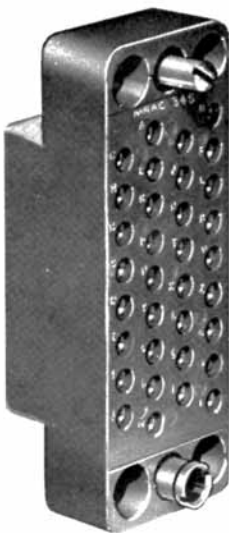
Omit steps not required



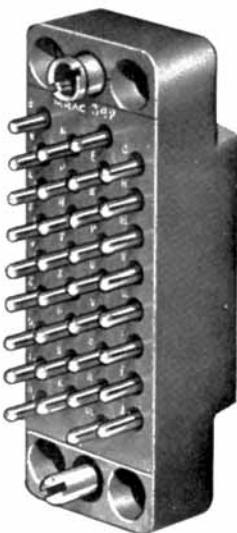
Note: 1. Contacts are ordered separately. See 100 Series contact section of Rack & Panel

TMRAC Series

Heavy Duty, Industrial and Commercial Mini Rectangular Rack & Panel Connector



TMRAC 34S-G



TMRAC 34P-G




Removable contacts offer a substantial savings of time, labor and a great flexibility in the choice of circuitry. The contact is easily removed with the hand tool depicted and then placed by hand or with a simple insertion tool.

The TMRAC Series was designed specifically for the industrial/ commercial customer for application in high temperature, rough service operations. This series features the same military-type anodized aluminum hoods, rugged polyester thermoplastic insulators, screw-machine removable contacts, guide and hardware as the MRAC Series.

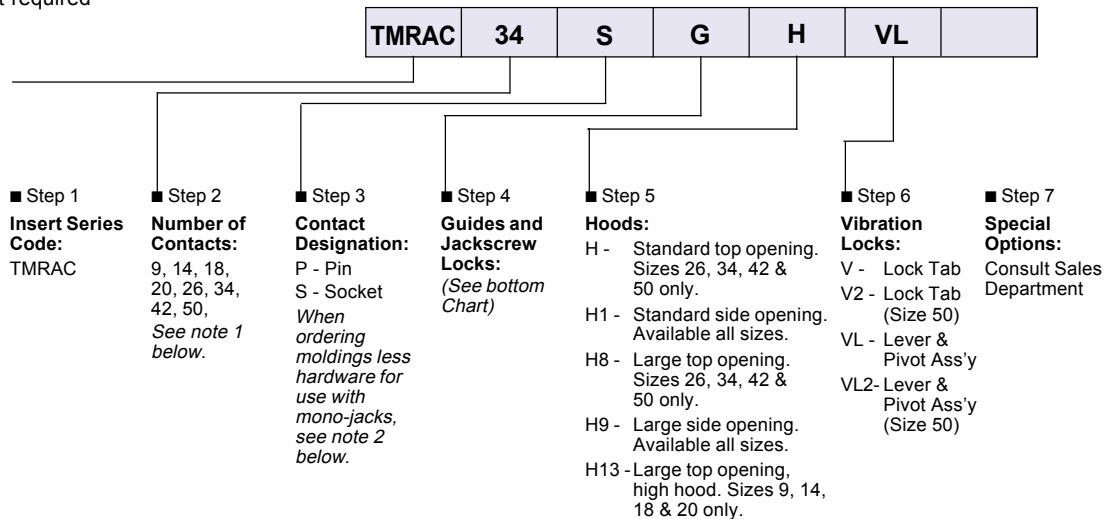
Specifications

| | | | |
|-------------------------------|--|--------------------------------|--|
| Insulators: | Polyester thermoplastic, black color. High potential performance: withstanding voltage is one minute electrification at 2000 VAC (sea level). | Contacts: | Must be ordered separately. Select from crimp, solder, dip solder, shielded or Wire-Wrap termination contacts. See 100 Series contact section. |
| Insulation Resistance: | 500V | Contact Identification: | Standard contact identification is alphabetical. |
| Thermal Shock: | -55°F to +150°F | Sizes: | .040" diameter and .062" diameter contacts in 7.5-amp and 13-amp current ratings. |
| Hoods: | Anodized aluminum. May be applied on plug or receptable. Both top and side opening hoods available. | Termination Types: | Crimp, dip-solder, solder removable in .040" and .062" diameter. Wire Wrap tails and stabilizing bushings for .025" and .045" square. |
| Polarization: | Gold plated guides provide positive polarization. Polarized nickel-plated brass and/or passivated stainless steel jackscrews with anodized aluminum knobs are available. | Current Rating: | 7.5 amps maximum for .040" contacts. 13 amps maximum for .062" contacts. |
| Number of Contacts: | Eight size connectors: 9-, 14-, 18-, 20-, 26-, 34-, 42- and 50-contact, available in either .040" or .062" diameter. | | |

CSA Certified File No.  LR34182
Recognized under the Component Program
of Underwriters Laboratories Inc. File No. E31650 

Ordering Information

Omit steps not required



Step 4

Guides

- G* Phosphor Bronze Cylindrical Guides
- K Beryllium Copper Cylindrical Guides
- N* Brass Cylindrical Guides
- "P" indicates two guide pins or two jackscrews (EX. JTCP)
- "S" indicates two guide sockets or two jackscrews (EX. GS)

* For passivated stainless steel add SS suffix.

Jackscrew Locks

- ***J Polarized Fixed Jackscrew and Jacksocket
- JT Polarized Short Turning Jackscrew and Jacksocket
- JTC Polarized Long Turning Jackscrew and Jacksocket
- ***JTD Polarized Long Turning Mono-Jackscrew and Mono-Jacksocket for Sizes 34, 42, and 50 only.

- **JZ Same as J but with 6-32 mtg. thd.
- **JTW Same as JT but with knurled round knob with internal hex
- **JTU Same as JT but with knurled round knob with screwdriver slot
- **JTX Same as JT but with hex knob
- **JTCW Same as JTC but with knurled round knob with internal hex
- **JTCU Same as JTC but with knurled round knob with screwdriver slot
- **JTCX Same as JTC but with hex knob
- **JTCZ Same as JTC but with prybar knob

** Request availability information.

*** Material: Nickel Plated Brass standard

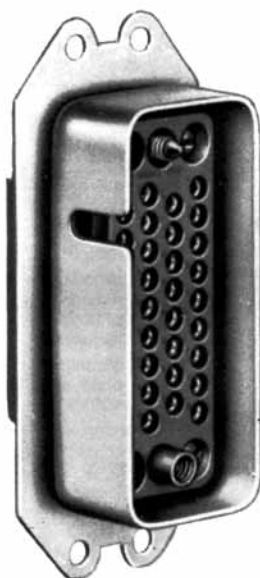
- Notes:** 1. Contacts are ordered separately. See 100 Series contact section of Rack & Panel
2. When ordering hoods, hardware and connectors separately for use with JTD Monojacks, connectors must be ordered as follows:
- Pin connector = TMRAC34P8, TMRAC42P8, etc.
 - Socket connector = TMRAC34S8, TMRAC42S8, etc.
- The number "8" indicates special housing for use with the JTD Monojack hardware (available on sizes 34, 42, and 50).

Dimensions

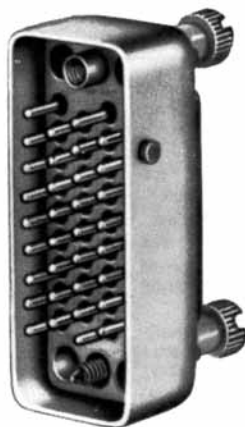
All dimensions for TMRAC housings are the same as MRAC housings. All hoods, hardware, and accessories used on the TMRAC Series are the same as those used on the MRAC Series. See MRAC Series section for part numbers and dimensions. Note the TMRAC Series maximum number of contacts is 50.

TXAC Series

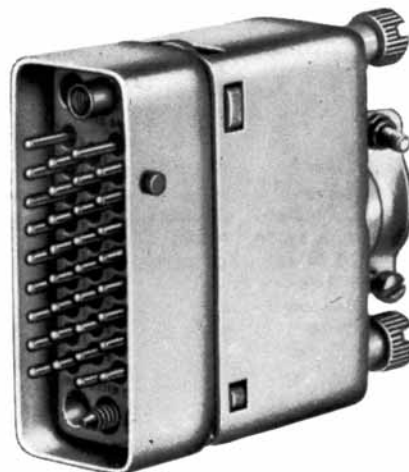
Heavy Duty, Industrial and Commercial, External Mini Rectangular Rack & Panel Connectors



TXAC34SF2A010



TXAC34PM1A000



TXAC34PC1A700

The TXAC Series was designed for external installation specifically for the industrial/commercial customer in high temperature, rough service applications. This series features the same military-type anodized aluminum hoods, rugged polyester thermo-

plastic insulators, screw-machine removable contacts, guide and jack hardware, and protective, anodized aluminum shells as the XAC Series. These features make this Series suitable for chassis mounting, bulkheads, or any outside surface equipment.

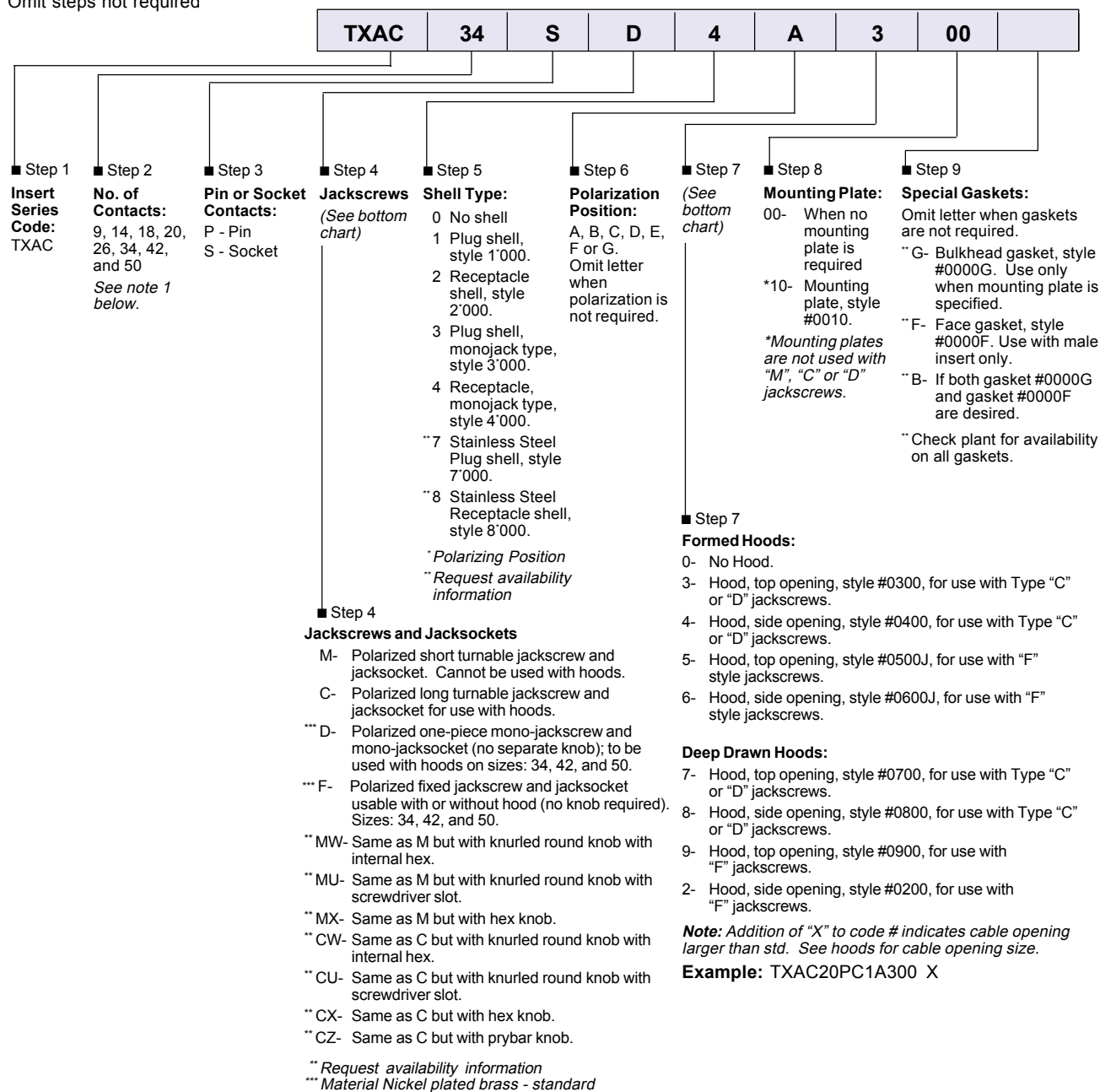
Specifications

| | | | |
|-------------------------------|---|--------------------------------|---|
| Insulators: | Polyester thermoplastic, green color. High potential performance: withstanding voltage is one minute electrification at 2000 VAC (sea level). | Contact Identification: | Standard contact identification is alphabetical. |
| Insulation Resistance: | 500V | Sizes: | .040" diameter and .062" diameter contacts in 7.5-amp and 13-amp current ratings. |
| Thermal Shock: | -55°F to +150°F | Contact Resistance: | @ 7.5 amps, 14 millivolts max. @ 13 amps, 10 millivolts max. |
| Hoods: | Anodized aluminum. May be applied on plug or receptable. Both top and side opening hoods available. | Termination Types: | Crimp, dip-solder, solder removable in .040" and .062" diameter. Wire Wrap tails and stabilizing bushings for .025" and .045" square. |
| Polarization: | Gold Plated guides provide positive polarization. Polarized nickel-plated brass and/or passivated stainless steel with anodized aluminum knobs are available. 7-position pin and slot polarization on shells. | Current Rating: | 7.5 amps maximum for .040" contacts. 13 amps maximum for .062" contacts. |
| Number of Contacts: | Eight size connectors: 9-, 14-, 18-, 20-, 26-, 34-, 42- and 50-contact, available in either .040" or .062" diameter. | | |
| Contacts: | Must be ordered separately. Select from crimp, solder, dip solder, shielded or Wire-Wrap termination contacts. See 100 Series contact section. | | |

CSA Certified File No.  LR34182
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Ordering Information

Omit steps not required

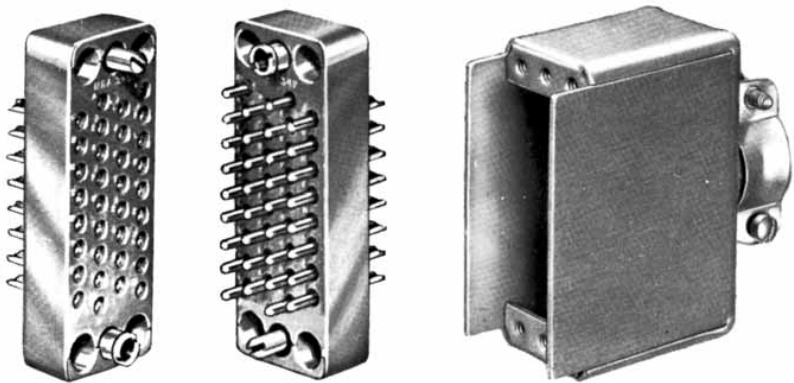


Note: 1. Contacts are ordered separately. See 100 Series contact section of Rack & Panel

Dimensions

All dimensions for TXAC housing are the same as MRAC housings. All hoods, shells, hardware, and accessories used on the TXAC Series are the same as those used on the XAC Series. See the XAC Series section for part numbers and dimensions. Note the TXAC Series maximum number of contacts is 50.

Miniature Rectangular / #16 Contacts / .062" Dia. / 13 Amps



Receptacle MRA 34S-G Plug MRA 34P-G Hood

The MRA Series offers compact, lightweight and self-aligning plugs and receptacles with unusually high current and voltage ratings for their size. Performance tests show them to well exceed military standards. Except for contact size, the MRA and MRE Series share the same hoods, hardware and accessories. Right angle, dip solder, pin or socket contacts are available. Consult factory. Dimensions are for reference only and are subject to change. Outline drawings on request.

Specifications

| | | | |
|----------------------------|--|----------------------|---|
| Current Rating: | 13 amps | Dielectric: | Gray glass filled diallyl phthalate, per MIL-M-14, SDG-F. |
| Number of contacts: | 9, 14, 20, 34, 41, 42, 50, 50-8, 66, 75, 104 | Polarization: | Gold plated guides provide polarization. Polarized nickel-plated brass and/or passivated stainless steel jackscrews with anodized aluminum knobs are available. |
| Pin Contacts: | .062 diameter, gold plated brass | Hoods: | Anodized aluminum. May be applied to either plug or receptacle. Both top and side opening hoods available. |
| Socket Contacts: | Phosphor bronze, gold plated | | |
| Terminations: | .070 dia. solder cup is standard. Will accommodate up to #16 AWG stranded wire. Pin and Socket contacts available with .030 diameter dip solder terminations. Consult Sales Dept. for lengths available. | | |
| Electrical Data: | Meets high potential performance of MIL-C-28748. Military versions are QPL'd to M28748/1 and M28748/2. The minimum dielectric withstanding voltage is one minute electrification 1000 VAC, sea level. | | |



Termination Types

Solder Cup





For pin and socket contacts, .070 diameter solder cup is the standard termination for cable and panel mount applications. Wire accommodation: up to #16 AWG stranded.

Dip Solder

For pin and socket contacts, .030 diameter dip solder terminations, straight or right angle for mounting to printed circuit board or for use with flexible cable.

Guide Sockets

3 Types of Guide Sockets are Available

| Guide Socket Code Letter | Application | Actual Size Photo | |
|--------------------------|---|---|--|
| G* | The "G" type socket is the standard guide supplied. It has good physical strength and may be used electrically in a low current circuit or as a contact for ground leads. |  G Type For General Use Phosphor |  Standard Guide Pin mates with all types Brass |
| K | The "K" guide socket is an excellent electrical conductor. Its extra spring-tension provides a high normal force uniformly distributed along the surface of the engaged pilot guide, thus minimizing electrical resistance. The multivolt drop across extreme ends of the engaged pilot and socket guide is 10 mv. at 20 amps. |  K Type For High Electrical Conductivity Beryllium Copper | |
| N* | The high physical strength of the "N" guide socket allows a greater degree of forcible tightening against a mounting surface than is permitted by the other guide sockets. This feature is particularly desirable for mounting connectors which will be subject to severe vibration in service. "N" guides are not to be used electrically. |  N Type For extra Mechanical Strength Brass | |

* For passivated stainless steel add SS suffix

Physical Data

| WEIGHT IN OZ. | NUMBER OF CONTACTS | | | | | | | | | | |
|------------------|--------------------|----|----|-----|-----|-----|-----|------|-----|-----|-----|
| | 9 | 14 | 20 | 34 | 41 | 42 | 50 | 50-8 | 66 | 75 | 104 |
| PLUG | .5 | .5 | .5 | 1.1 | 1.2 | 1.2 | 1.5 | 1.5 | 2.0 | 2.3 | 3.1 |
| RECEPTACLE | .4 | .4 | .4 | .8 | .9 | .9 | 1.1 | 1.1 | 1.5 | 1.7 | 2.2 |

Special

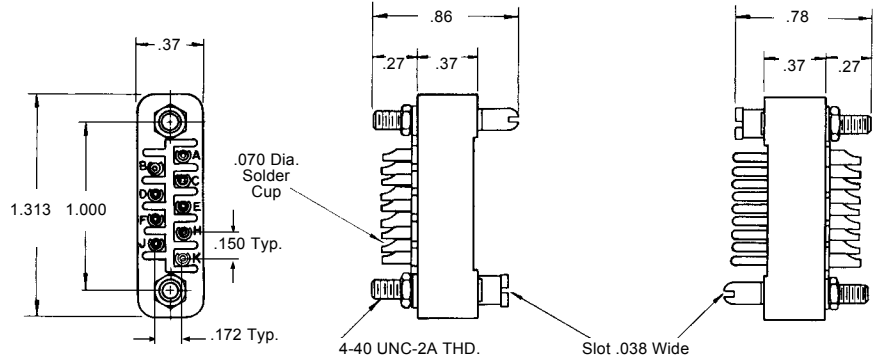
MRA-50-8 with 8, 20 amp solder cup contacts and 50, 13 amp solder cup contacts

| CONTACTS | CURRENT RATING | PIN DIAMETER | MAX. WIRE SIZE | SOLDER CUP DIA |
|----------|----------------|--------------|----------------|----------------|
| 8 | 20 amps | .093 | #12 AWG | .106 D |
| .50 | 13 amps | .062 | #16 AWG | .070 D |

Outline

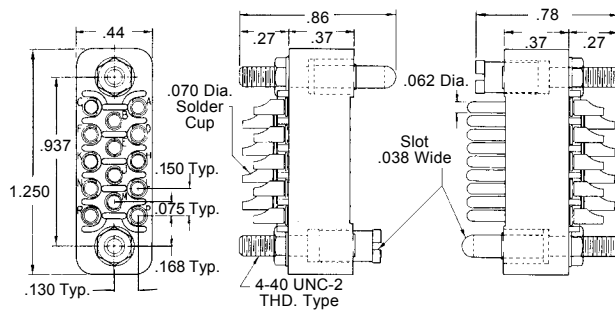
Dimensions are for reference only and are subject to change. Outline drawings on request.

Drawings and corresponding part numbers show G type guide sockets.



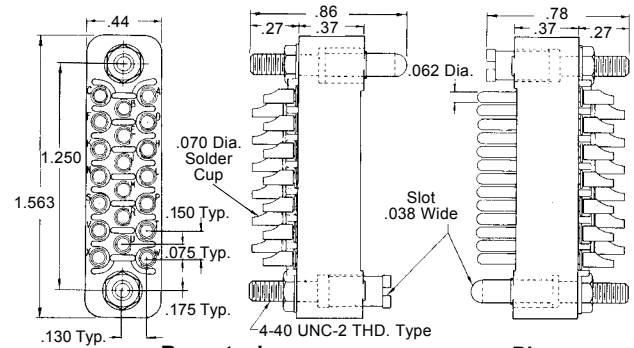
**Receptacle
MRA 9S-G**

**Plug
MRA 9P-G**



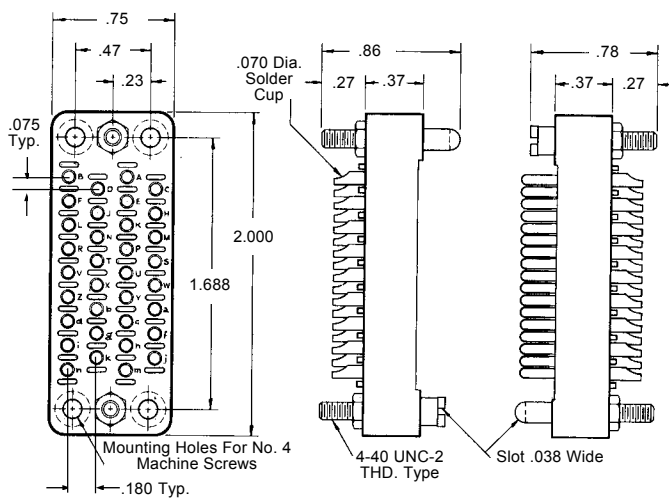
**Receptacle
MRA 14S-G**

**Plug
MRA 14P-G**



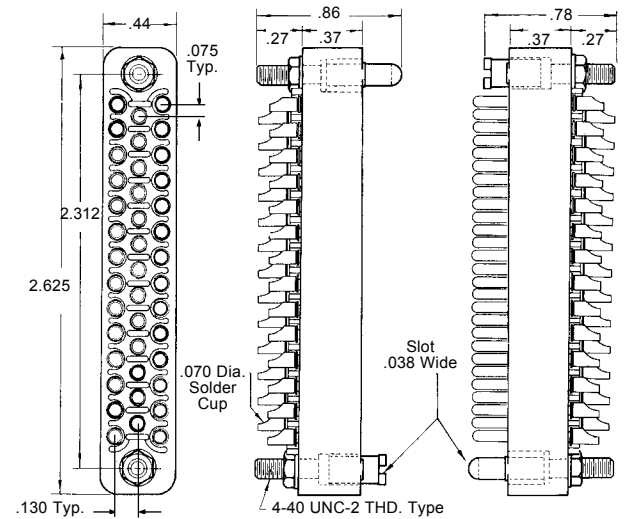
**Receptacle
MRA 20S-G**

**Plug
MRA 20P-G**



**Receptacle
MRA 34S-G**

**Plug
MRA 34P-G**



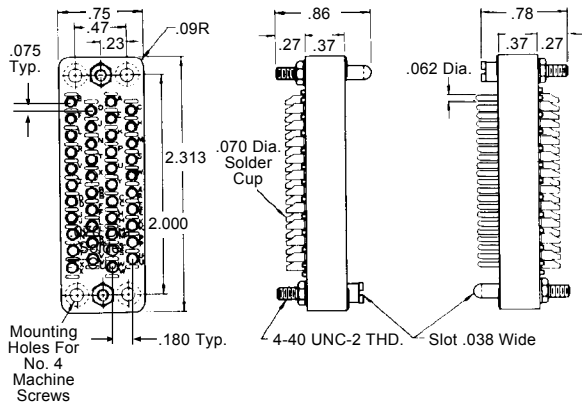
**Receptacle
MRA 41S-G**

**Plug
MRA 41P-G**

Outline

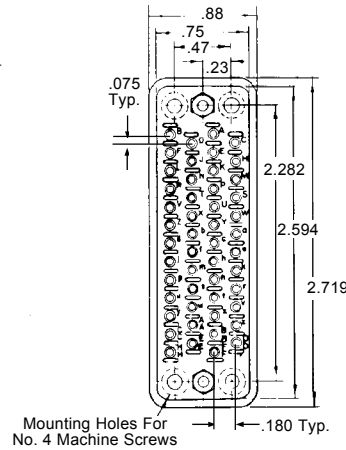
Dimensions are for reference only and are subject to change. Outline drawings on request.

Drawings and corresponding part numbers show G type guide sockets.

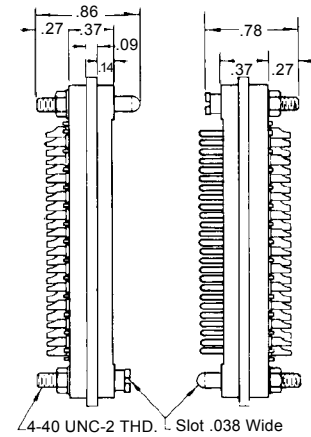


**Receptacle
MRA 42S-G**

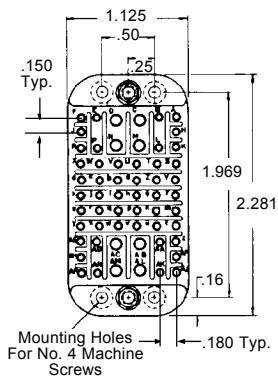
**Plug
MRA 42P-G**



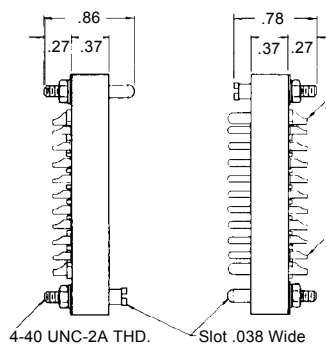
**Receptacle
MRA 50S-G**



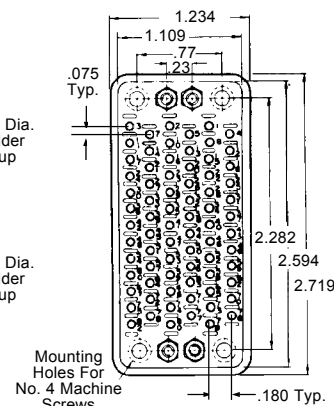
**Plug
MRA 50P-G**



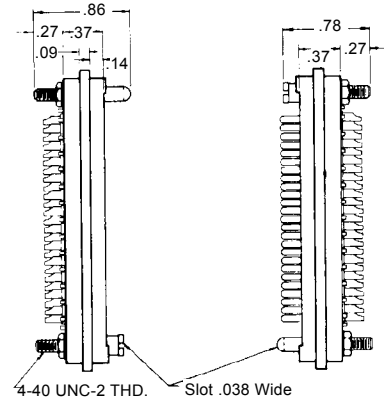
**Receptacle
MRA 50-8S-G**



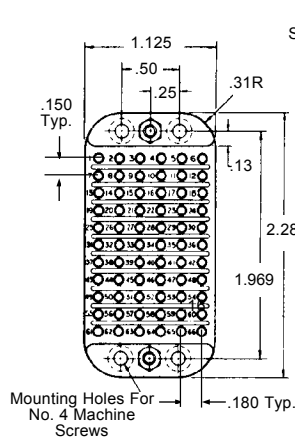
**Plug
MRA 50-8P-G**



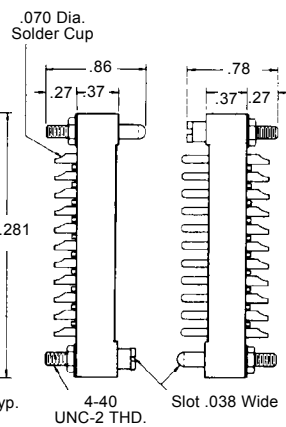
**Receptacle
MRA 75S-G**



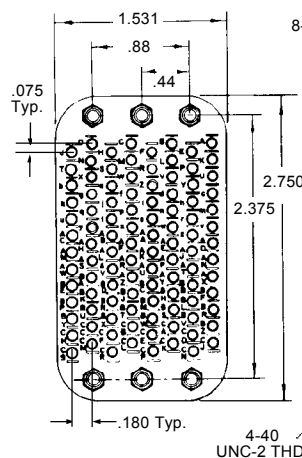
**Plug
MRA 75P-G**



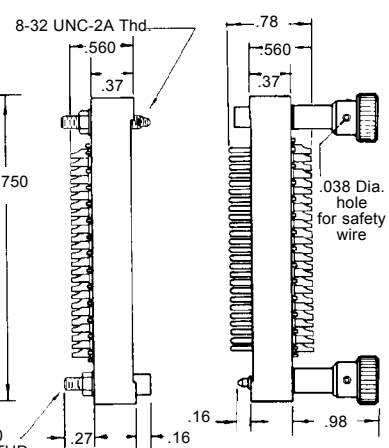
**Receptacle
MRA 66S-G**



**Plug
MRA 66P-G**



**Receptacle
MRA 104S-J**

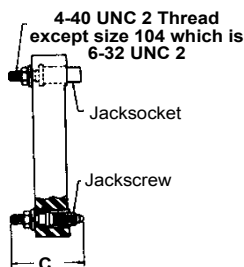


**Plug
MRA 104P-JT**

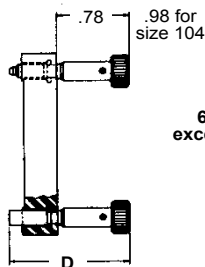
Polarized jackscrews give the ease and assurance of threaded positive coupling. The actuating side consists of two turnable screws, one male and one female, each with knurled and slotted knobs. On the mating half are the two fixed screws required to complete the locking action. When mated, the jackscrews may be locked with a safety wire through the hole in the self-locking pin (in the jackscrew shaft).

The drawings show the extension of the jackscrew knobs beyond a typical MRA connector and beyond the connector-and-hood assembly (center drawings). Dimensions given are constant for all connectors except as noted. Other dimensions applicable to various hood styles are detailed in the chart.

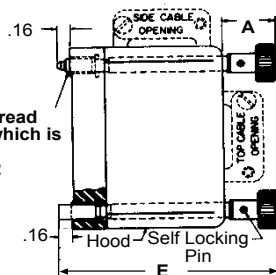
Jackscrews & Jacksockets



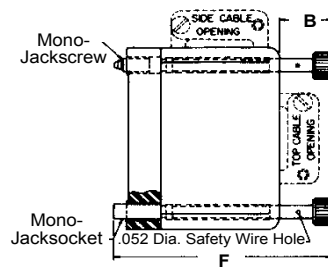
Connector with fixed Jackscrews.
Code designation: J



Mating connector half with turnable Jackscrews-with-Knobs.
Code designation: JT



Mating connector half with Hood and turnable Long Jackscrews-with-Knobs. Code designation: JTCH, JTCH1



Mating connector half with Hood and turnable Monojacks.
Code designation: JTDH, JTDH1

Dimensions

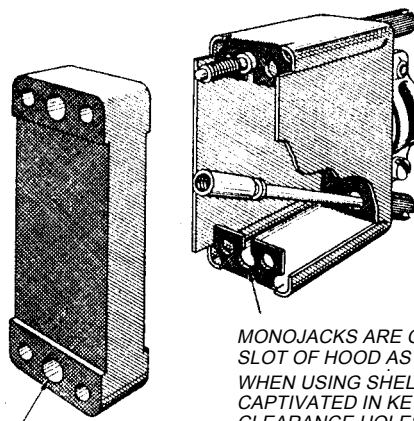
Dimensions are for reference only and are subject to change. Outline drawings on request.

| Connector Size | Dimension A | | | | Dimension B | | | | Dimen C | Dimen D | Dimension E | | | | Dimension F | | | |
|----------------|-------------|-----|-----|-----|-------------|-----|-----|-----|---------|---------|-------------|------|------|------|-------------|------|------|------|
| | H | H1 | H8 | H9 | H | H1 | H8 | H9 | | | H | H1 | H8 | H9 | H | H1 | H8 | H9 |
| MRA 9 | — | .59 | .58 | .59 | — | — | — | — | .80 | 1.31 | — | 2.41 | 2.09 | 2.41 | — | — | — | — |
| MRA 14 | — | .59 | .58 | .59 | — | — | — | — | .80 | 1.31 | — | 2.41 | 1.84 | 2.41 | — | — | — | — |
| MRA 20 | — | .59 | .58 | .59 | — | — | — | — | .80 | 1.31 | — | 2.41 | 1.84 | 2.41 | — | — | — | — |
| MRA 34 | .63 | .63 | .63 | .63 | .63 | .63 | .63 | .63 | .80 | 1.31 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 |
| MRA 41 | .63 | .63 | — | — | — | — | — | — | .80 | 1.31 | 2.41 | 2.41 | — | — | — | — | — | — |
| MRA 42 | .58 | .58 | .58 | .58 | .58 | .58 | .58 | .58 | .80 | 1.31 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 |
| MRA 50 | .58 | .58 | .58 | .58 | .58 | .58 | .58 | .58 | .80 | 1.31 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 |
| MRA 50-8 | .77 | — | — | .70 | .50 | — | — | .50 | .80 | 1.31 | 2.47 | — | — | 2.41 | 2.19 | — | — | 2.19 |
| MRA 66 | .77 | — | — | .70 | .50 | — | — | .50 | .80 | 1.31 | 2.47 | — | — | 2.41 | 2.19 | — | — | 2.19 |
| MRA 75 | .56 | .56 | .56 | .56 | .56 | .56 | .56 | .56 | .80 | 1.31 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 |
| MRA 104 | .67 | — | — | .67 | .50 | — | — | .50 | .80 | 1.52 | 3.42 | — | — | 3.42 | 3.25 | — | — | 3.25 |

New Monojacks Assemble and Disassemble With Remarkable Ease and Speed

To free the connector from the hood, simply remove four screws. Monojacks may be used on miniature rectangular connectors with from

34 to 104 contacts, molds have 2 center thru holes and 4 mounting holes.

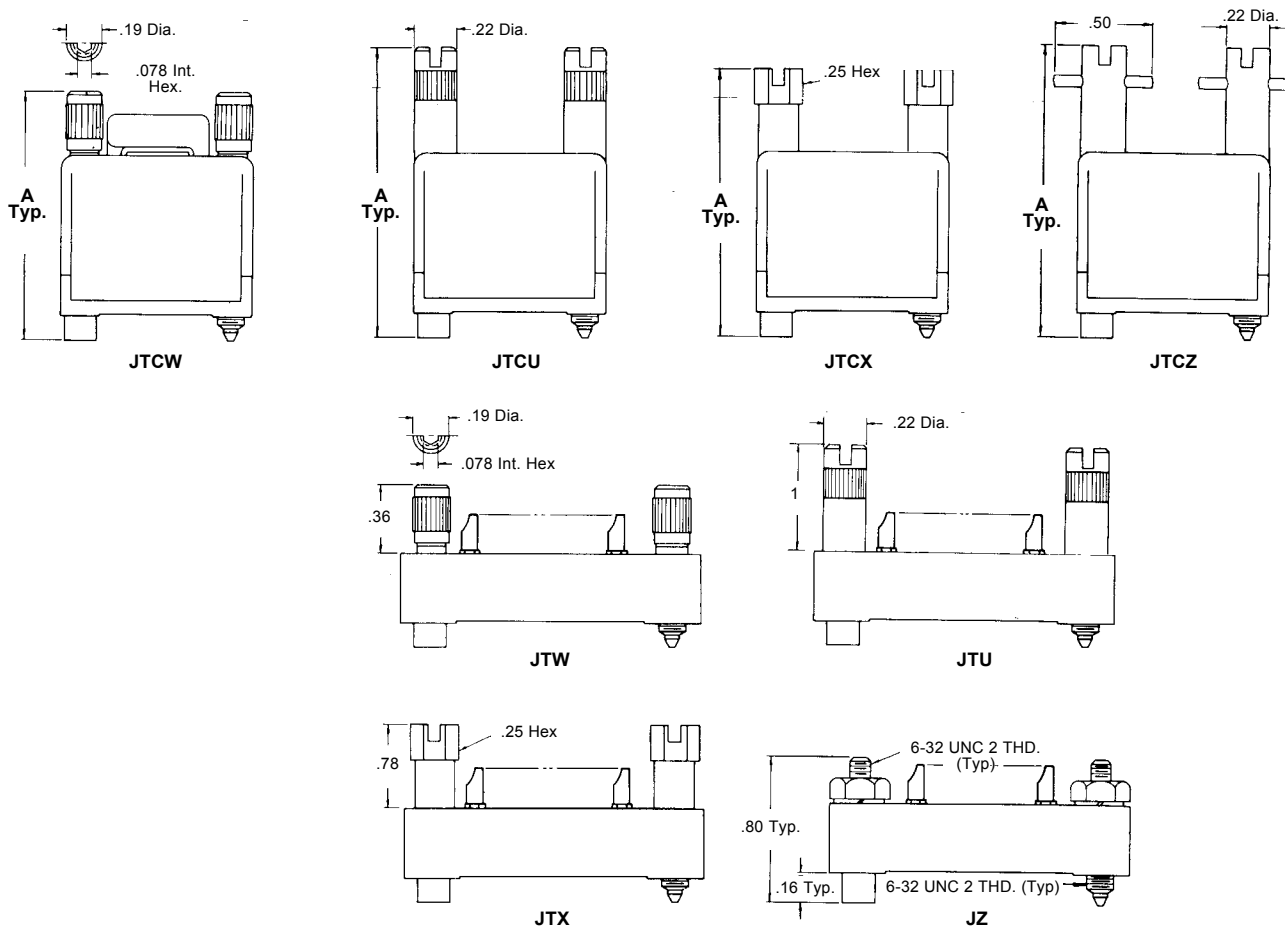


MOLDINGS HAVE STRAIGHT THRU HOLES

MONOJACKS ARE CAPTIVATED IN KEYHOLE SLOT OF HOOD AS SHOWN ABOVE.
WHEN USING SHELLS, MONOJACKS ARE CAPTIVATED IN KEYHOLE OF SHELL AND CLEARANCE HOLES ARE PLACED IN HOODS.

Outline Jackscrews & Jacksockets

Dimensions are for reference only and are subject to change. Outline drawings on request.



Dimensions

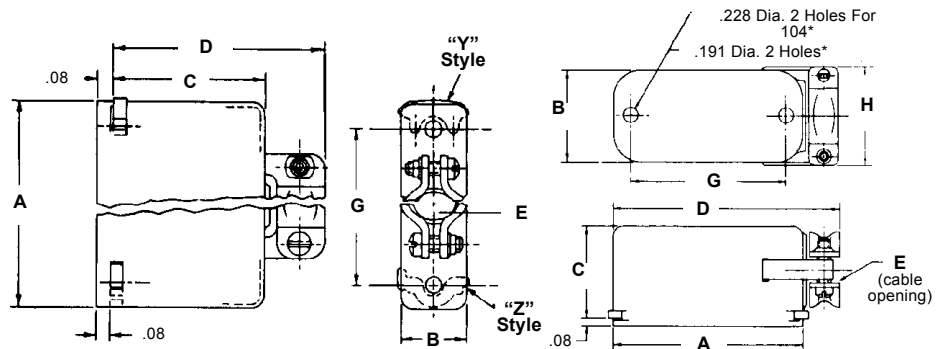
All jackscrews and sockets are stainless steel, passivated, except J & JTD which are nickel-plated brass. All knobs are aluminum, anodized except JTW and JTCW which are stainless steel, passivated.

Hood Type

| Size | Type JTCW | | | | Size | Type JTCU | | | | Size | Type JTCX | | | | Size | Type JTCZ | | | |
|-------------|-----------|------|------|------|-------------|-----------|------|------|------|-------------|-----------|------|------|------|-------------|-----------|------|------|------|
| | H | H1 | H8 | H9 | | H | H1 | H8 | H9 | | H | H1 | H8 | H9 | | H | H1 | H8 | H9 |
| Dimension A | | | | | Dimension A | | | | | Dimension A | | | | | Dimension A | | | | |
| 9 | — | 2.22 | 1.91 | 2.22 | 9 | — | 2.47 | 2.16 | 2.47 | 9 | — | 2.34 | 2.03 | 2.34 | 9 | — | 2.47 | 2.16 | 2.47 |
| 14 | — | 2.22 | 1.66 | 2.22 | 14 | — | 2.47 | 1.91 | 2.47 | 14 | — | 2.34 | 1.78 | 2.34 | 14 | — | 2.47 | 1.91 | 2.47 |
| 20 | — | 2.22 | 1.66 | 2.22 | 20 | — | 2.47 | 1.91 | 2.47 | 20 | — | 2.34 | 1.78 | 2.34 | 20 | — | 2.47 | 1.91 | 2.47 |
| 34 | 2.22 | 2.22 | 2.22 | 2.22 | 34 | 2.47 | 2.47 | 2.47 | 2.47 | 34 | 2.34 | 2.34 | 2.34 | 2.34 | 34 | 2.47 | 2.47 | 2.47 | 2.47 |
| 41 | 2.22 | 2.22 | — | — | 41 | 2.47 | 2.47 | — | — | 41 | 2.34 | 2.34 | — | — | 41 | 2.47 | 2.47 | — | — |
| 42 | 2.22 | 2.22 | 2.22 | 2.22 | 42 | 2.47 | 2.47 | 2.47 | 2.47 | 42 | 2.34 | 2.34 | 2.34 | 2.34 | 42 | 2.47 | 2.47 | 2.47 | 2.47 |
| 50 | 2.22 | 2.22 | 2.22 | 2.22 | 50 | 2.47 | 2.47 | 2.47 | 2.47 | 50 | 2.34 | 2.34 | 2.34 | 2.34 | 50 | 2.47 | 2.47 | 2.47 | 2.47 |
| 50-8 | 2.22 | — | — | 2.22 | 50-8 | 2.47 | — | — | 2.47 | 50-8 | 2.34 | — | — | 2.34 | 50-8 | 2.47 | — | — | 2.47 |
| 66 | 2.22 | — | — | 2.22 | 66 | 2.47 | — | — | 2.47 | 66 | 2.34 | — | — | 2.34 | 66 | 2.47 | — | — | 2.47 |
| 75 | 2.22 | 2.22 | 2.22 | 2.22 | 75 | 2.47 | 2.47 | 2.47 | 2.47 | 75 | 2.34 | 2.34 | 2.34 | 2.34 | 75 | 2.47 | 2.47 | 2.47 | 2.47 |

Outline Hoods- Drawn Aluminum

Dimensions are for reference only and are subject to change. Outline drawings on request.



Dimensions

Top Cable Opening

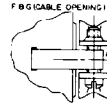
Side Cable Opening

| Catalog No. | DIMENSIONS – TOP OPENING | | | | | | | Wt. Oz. | Fits Connector | Style |
|-------------|--------------------------|------|------|------|-----------|---|-------|---------|------------------------|-------|
| | A | B | C | D | E | F | G | | | |
| MRA 34H-491 | 2.09 | .84 | 1.17 | 1.59 | .66 x .75 | — | 1.688 | .6 | MRA 34P MRA 34S | "Z" |
| MRA 50-8H | 2.38 | 1.22 | 1.17 | 1.69 | 1.03D | — | 1.969 | .8 | MRA 50-8P MRA 50-8S | "Y" |
| MRA 66H | 2.38 | 1.22 | 1.17 | 1.69 | 1.03 | — | 1.969 | .8 | MRA 66P MRA 66S | "Y" |
| MRA 104H | 2.84 | 1.63 | 2.23 | 2.75 | 1.19D | — | 2.375 | 1.0 | MRA 104P MRA 104S | "Y" |

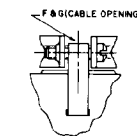
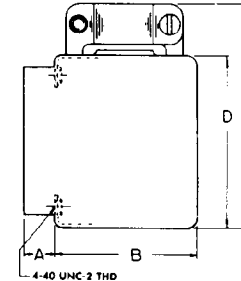
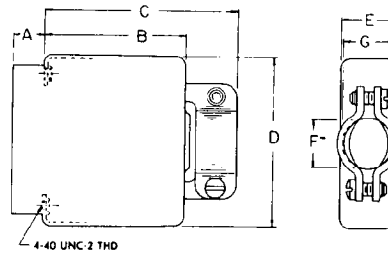
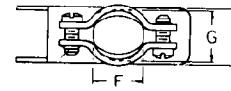
| Catalog No. | DIMENSIONS – SIDE OPENING | | | | | | | Wt. Oz. | Fits Connector | Style |
|--------------|---------------------------|------|------|------|-----------|------|-------|---------|------------------------|-------|
| | A | B | C | D | E | H | G | | | |
| MRA 34H9-491 | 2.09 | .84 | 1.17 | 1.59 | .64 x .75 | 1.06 | 1.688 | .6 | MRA 34P MRA 34S | "Z" |
| MRA 50-8H9 | 2.38 | 1.22 | 1.17 | 2.92 | .84D | 1.34 | 1.969 | .8 | MRA 50-8P MRA 50-8S | "Y" |
| MRA 66H9 | 2.38 | 1.22 | 1.17 | 2.92 | .84D | 1.34 | 1.969 | .8 | MRA 66P MRA 66S | "Y" |
| MRA 104H9 | 2.84 | 1.63 | 2.23 | 3.39 | 1.19D | 1.63 | 2.375 | 1.0 | MRA 104P MRA 104S | "Y" |

Outline Hoods- Formerd Aluminum

MRE Series hoods for use with MRA Series connectors



H-8 Hoods are identical to H Hood except for cable clamp style and cable opening in the hood.



H-9 Hood is identical to H-1 Hood except for cable clamp style and cable opening in the hood.

Dimensions

Top Cable Opening

Side Cable Opening

H and H-8 Cable Clamps (Top Opening)

| Code No. | Dimensions | | | | | | Cable Opening | Wt. Oz. | Fits Connector |
|-----------|------------|------|------|------|------|------|---------------|---------|-----------------|
| | A | B | C | D | E | F | | | |
| MRE 9H* | .28 | 1 | 1.31 | 1.31 | .44 | .31D | — | .3 | MRA 9 (P or S) |
| MRE 9H-8 | .28 | 1 | 1.30 | 1.31 | .44 | .31 | .59 | .3 | MRA 9 (P or S) |
| MRE 14H* | .28 | .75 | 1.19 | 1.25 | .5 | .44D | — | .3 | MRA 14 (P or S) |
| MRE 14H-8 | .28 | .75 | 1.05 | 1.25 | .5 | .38 | .59 | .3 | MRA 14 (P or S) |
| MRE 20H* | .25 | .75 | 1.19 | 1.56 | .5 | .44D | — | .3 | MRA 20 (P or S) |
| MRE 20H-8 | .25 | .75 | 1.05 | 1.56 | .5 | .38 | .66 | .3 | MRA 20 (P or S) |
| MRE 34H | .28 | 1.25 | 1.67 | 2 | .83 | .66D | — | .6 | MRA 34 (P or S) |
| MRE 34H-8 | .28 | 1.25 | 1.75 | 2 | .83 | 1.06 | .56 | .6 | MRA 34 (P or S) |
| MRE 41H | .28 | 1.25 | 1.67 | 2.63 | .5 | .66 | .44 | .6 | MRA 41 (P or S) |
| MRE 42H | .09 | 1.30 | 1.72 | 2.31 | .83 | .63D | — | .7 | MRA 42 (P or S) |
| MRE 42H-8 | .09 | 1.30 | 1.80 | 2.31 | .83 | 1.06 | .56 | .7 | MRA 42 (P or S) |
| MRE 50H | .09 | 1.30 | 1.72 | 2.59 | .83 | .63D | — | .8 | MRA 50 (P or S) |
| MRE 50H-8 | .09 | 1.30 | 1.80 | 2.59 | .83 | 1.06 | .56 | .8 | MRA 50 (P or S) |
| MRE 75H | .09 | 1.31 | 1.73 | 2.59 | 1.19 | .63 | .88 | 1.0 | MRA 75 (P or S) |
| MRE 75H-8 | .09 | 1.31 | 1.86 | 2.59 | 1.19 | 1 | .88D | 1.0 | MRA 75 (P or S) |

* H Hoods for MRA 9, 14, and 20 will not accept JTC hardware. Use H8 hoods.

H-1 and H-9 Cable Clamps (Side Opening)

| Code No. | Dimensions | | | | | | Cable Opening | Wt. Oz. | Fits Connector |
|-----------|------------|------|------|------|------|------|---------------|---------|-----------------|
| | A | B | C | D | E | F | | | |
| MRE 9H-1 | .28 | 1.28 | 1.63 | 1.31 | .44 | .31D | — | .3 | MRA 9 (P or S) |
| MRE 9H-9 | .28 | 1.28 | 1.61 | 1.31 | .44 | .59 | .31 | .3 | MRA 9 (P or S) |
| MRE 14H-1 | .28 | 1.28 | 1.69 | 1.25 | .5 | .38D | — | .3 | MRA 14 (P or S) |
| MRE 14H-9 | .28 | 1.28 | 1.55 | 1.25 | .5 | .59 | .38 | .3 | MRA 14 (P or S) |
| MRE 20H-1 | .28 | 1.28 | 2 | 1.56 | .5 | .38D | — | .3 | MRA 20 (P or S) |
| MRE 20H-9 | .28 | 1.28 | 1.86 | 1.56 | .5 | .66 | .38 | .3 | MRA 20 (P or S) |
| MRE 34H-1 | .28 | 1.25 | 2.42 | 2 | .83 | .66D | — | .6 | MRA 34 (P or S) |
| MRE 34H-9 | .28 | 1.25 | — | 2 | .83 | .81 | .56 | .6 | MRA 34 (P or S) |
| MRE 41H-1 | .28 | 1.25 | 3.06 | 2.63 | .5 | .66 | .44 | .6 | MRA 41 (P or S) |
| MRE 42H-1 | .09 | 1.30 | 2.73 | 2.31 | .83 | .63 | .5 | .7 | MRA 42 (P or S) |
| MRE 42H-9 | .09 | 1.30 | — | 2.31 | .83 | .84 | .56 | .7 | MRA 42 (P or S) |
| MRE 50H-1 | .09 | 1.30 | 3.02 | 2.59 | .83 | .63 | .5 | .8 | MRA 50 (P or S) |
| MRE 50H-9 | .09 | 1.30 | — | 2.59 | .83 | 1.06 | .56 | .8 | MRA 50 (P or S) |
| MRE 75H-1 | .09 | 1.31 | 3.02 | 2.59 | 1.19 | .63 | .88 | 1.0 | MRA 75 (P or S) |
| MRE 75H-9 | .09 | 1.31 | — | 2.59 | 1.19 | 1 | .88 | 1.0 | MRA 75 (P or S) |



Hoods - Locking

Lock Tabs (MRE-V shown)

Lever & Pivot Assemblies (MRE-VL shown)

Vibration Locks*

| Lever & Pilot Assembly | Lock Tabs (See Note) | Used on Connectors |
|------------------------|----------------------|-------------------------------|
| MRE-VL | MRE-V | MRA 9, 14, 20, 34, 41, 42, 66 |
| MRE-VL2 | MRE-V2 | MRA 50, 75 |

Vibration locks offer simplicity of design and positive locking in excess of 50G shock impact and 10G vibration acceleration. Mating halves automatically lock when engaged. To unlock, depress the levers. Drilled holes in the levers

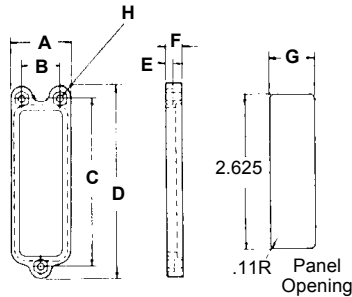
are provided for safety wiring. Vibration locks are available separately for assembly on connectors now in service. Each code number indicates two units: two levers with two pivots, and two lock tabs.

*US Patent Number 2760174

Note: When panel mounting the lock-tab half of a MRA 34, MRA 42 or MRA 50 and MRA 66 connector, flat washers (.033 minimum thickness) should be used on the mounting screws to shim the moulding away from the panel.

Dimensions / Outline Mounting Brackets

| Code No. | DIMENSIONS | | | | | | | | Wt. Oz. |
|----------|------------|-------|-------|------|-----|-----|------|---|---------|
| | A | B | C | D | E | F | G | H | |
| MRE 50B | 1.06 | .688 | 3.031 | 3.44 | .13 | .28 | .72 | .128 Dia 3 Holes (No. 4 Mounting Screw) | .4 |
| MRE 75B | 1.48 | 1.047 | 3.062 | 3.56 | .14 | .30 | 1.14 | .150 Dia 3 Holes (No. 6 Mounting Screw) | .6 |



MRA 50 and MRA 75 connectors use the standard MRE 50 and MRE 75 mounting brackets

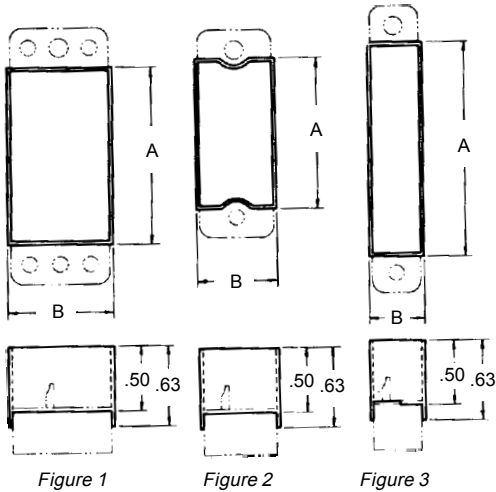
Dimensions / Outline Pre-Shaped Nylon Potting Forms

Dimensions are for reference only and are subject to change. Outline drawings on request.

Each form matches the back opening contour of its appropriate shell, and stays easily in place during the potting operation. Of negligible weight, it need not be removed from the

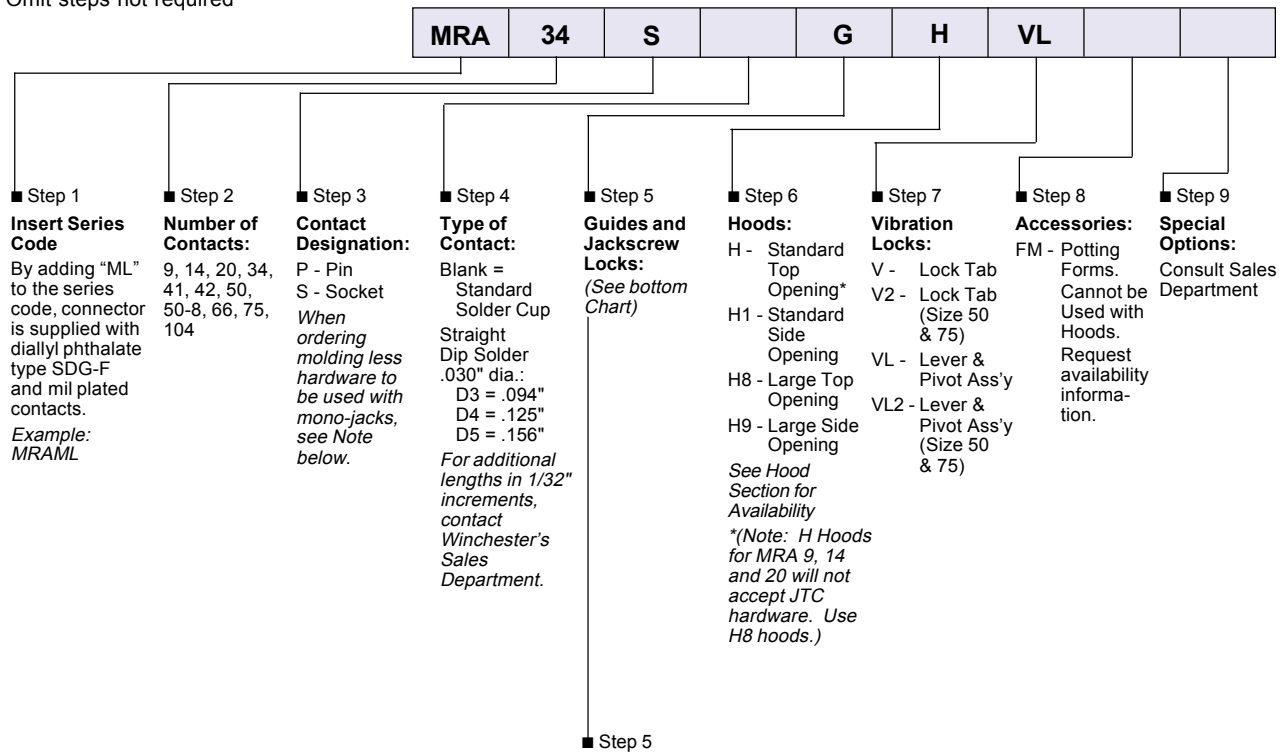
connector after potting. Because of floating contacts, connector halves should always be engaged during the potting operation to preserve contact alignment.

| Potting Form Code No. | Fig. | Dimensions | |
|-----------------------|------|------------|------|
| | | A | B |
| MRA 9 FM | 3 | .77 | .43 |
| MRA 14 FM | 2 | .93 | .49 |
| MRA 20 FM | 2 | 1.12 | .49 |
| MRA 26 FM | 2 | 1.18 | .61 |
| MRA 34 FM | 1 | 1.38 | .80 |
| MRA 41 FM | 2 | 2.18 | .49 |
| MRA 42 FM | 1 | 1.69 | .80 |
| MRA 50 FM | 1 | 1.97 | .80 |
| MRA 75 FM | 1 | 1.98 | 1.16 |



Ordering Information

Omit steps not required



Guides

- *G Phosphor Bronze Cylindrical Guides*
- K Beryllium Copper Cylindrical Guides
- *N Brass Cylindrical Guides*

Guides are not recommended for Size 104

"P" indicates two guide pins or two jackscrews (EX. JTCP)

"S" indicates two guide sockets or two jacksockets. (Ex. GS)

Jackscrew Locks

- *** J Polarized Fixed Jackscrew and Jacksocket
- JT Polarized Short Turning Jackscrew and Jacksocket
- JTC Polarized Long Turning Jackscrew and Jacksocket
- *** JTD Polarized Long Turning Mono-Jackscrew and Mono-Jacksocket for Sizes 34, 42, 50, 66, 75, and 104 only.

** JZ Same as J but with 6-32 mtg. thd. (Std. on 104)

** JTW Same as JT but with knurled round knob with internal hex (not avail. 104)

** JTV Same as JT but with knurled round knob with screwdriver slot (not avail. 104)

** JTX Same as JT but with hex knob (not avail. 104)

** JTCW Same as JTC but with knurled round knob with internal hex (not avail. 104)

** JTCU Same as JTC but with knurled round knob with screwdriver slot (not avail. 104)

** JTCX Same as JTC but with hex knob (not avail. 104)

** JTCZ Same as JTC but with prybar knob (not avail. 104)

** Request availability information.

*** Material: Nickel-plated brass - standard.

* For passivated stainless steel add SS suffix. (Example: MRA34SGSS)

Mounting Note: Connectors MRA 9, MRA 14, MRA 20 and MRA41 use guides or fixed jacks for mounting in a hood or on a panel. Connectors MRA 34, MRA 42, MRA 50, MRA 66, MRA 75 use four #4 machine screws, and MRA 104 uses four #6 machine screws for mounting in a hood or on a panel. Guides are not recommended for use with MRA 104.

Note: When ordering hoods, hardware and connectors separately for use with JTD Monojacks, connectors must be ordered as follows:

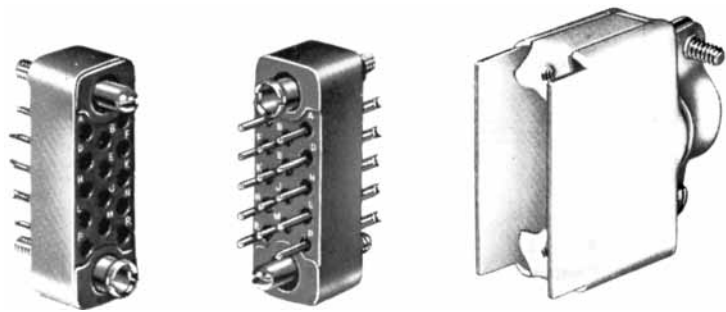
Pin connector = MRA34P8, MRA42P8, etc.

Socket connector = MRA34S8, MRA42S8, etc.

The number "8" indicates special housing for use with the JTD Monojack hardware (available on sizes 34, 42, 50, 66, 75 and 104).

MRE Series

Miniature Rectangular / #20 Contacts / .040" Dia. / 7.5 Amps



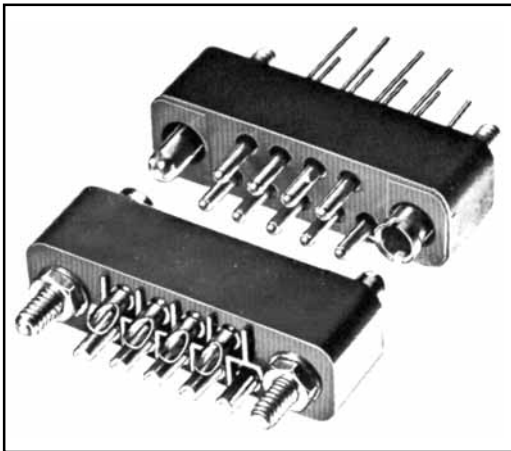
Receptacle MRE 14S-G Plug MRE 14P-G Hood MRE 14H

MRE Series plugs and receptacles are the accepted standard for rectangular-shaped, miniature, internal-type connectors. They embody all of the features expected of true miniaturization: maximum utility of space, extremely lightweight and unusually high

working voltage and current ratings. Their long life and trouble-free service continue to make them highly popular for use in aircraft, instrumentation and portable equipment. The MRE and MRA series share the same hoods, hardware and accessories.

Specification

| | | | |
|---------------------------|--|----------------------|--|
| Current Rating: | 7.5 amps | Dielectric: | volts. Brown mineral filled diallyl phthalate. Also available in gray glass filled diallyl phthalate, per MIL-M-14, SDG-F. |
| No. of Contacts: | 7, 8, 9, 11, 14, 18, 20, 21, 26, 34, 41, 42, 50, 75, 104 | Polarization: | Gold plated guides provide positive polarization. Polarized nickel-plated brass and/or passivated stainless steel jackscrews with anodized aluminum knobs are available. |
| Pin Contacts: | .040 dia., gold plated brass | Hoods: | Anodized aluminum. May be applied to either plug or receptacle. Both top and side openings are available. |
| Socket Contacts: | Phosphor bronze plated gold. | | |
| Termination Types: | .048 dia. solder cup is standard. It will accept up to #20 AWG stranded wire. Pin and Socket Contacts available with dip solder terminations, .025 Dia. Check Sales Dept. for lengths available. | | |
| Electrical Data: | Meets high potential performance requirements of MIL-C-28748. Military versions are QPL'd to M28748/5 and M28748/6. The dielectric withstanding voltage is one minute at 1200 | | |



Termination Types





- Solder Cup**

.048 diameter solder cup is the standard termination for cable and panel mounting applications. It will accept up to #20 AWG stranded wire.
- Dip Solder**

For mounting on printed circuit boards, .025 diameter straight dip solder terminations (for Pin Contacts and Socket Contacts) are available. Consult the Sales Department for available lengths.

Guide Forms

3 Types of Guide Sockets are Available

| Guide Socket Code Letter | Application | Actual Size Photo | |
|--------------------------|---|---|--|
| G* | The "G" type socket is the standard guide supplied. It has good physical strength and may be used electrically in a low current circuit or as a contact for ground leads. |  G Type For General Use Phosphor |  Standard Guide Pin mates with all types Brass |
| K | The "K" guide socket is an excellent electrical conductor. Its extra spring-tension provides a high normal force uniformly distributed along the surface of the engaged pilot guide, thus minimizing electrical resistance. The multivolt drop across extreme ends of the engaged pilot and socket guide is 10 mv. at 20 amps. |  K Type For High Electrical Conductivity Beryllium Copper | |
| N* | The high physical strength of the "N" guide socket allows a greater degree of forcible tightening against a mounting surface than is permitted by the other guide sockets. This feature is particularly desirable for mounting connectors which will be subject to severe vibration in service. "N" guides are not to be used electrically. |  N Type For extra Mechanical Strength Brass | |

* For passivated stainless steel add SS suffix

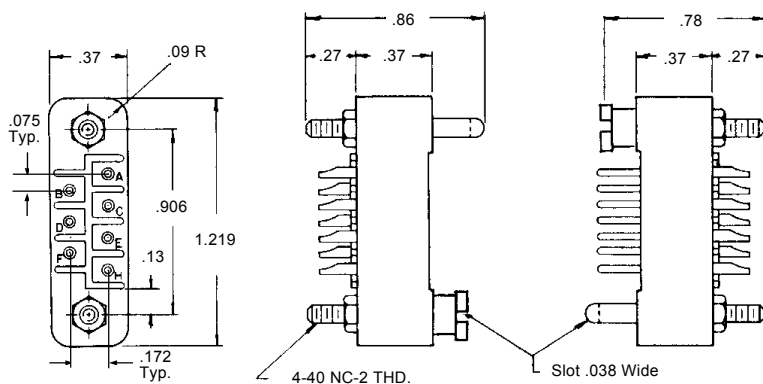
Physical Data

HOW TO ORDER: To obtain "K" or "N" guides in place of the standard "G" type, substitute the desired socket style code letter ("K" or "N") for "G" in both the Plug and Receptacle Code Numbers. (See Code Numbers in table at right.

| Total No. of Contacts | Plug | Recept. | No. Standard Contacts, 7.5 Amps (.048 dia. solder cup for #20 AWG) | No. Standard Contacts, 10 Amps (.052 dia. solder cup for #18 AWG) | Weight Oz. | | Total No. of Contacts | Plug | Recept. | No. Standard Contacts, 7.5 Amps (.048 dia. solder cup for #20 AWG) | No. Standard Contacts, 10 Amps (.052 dia. solder cup for #18 AWG) | Weight Oz. | |
|-----------------------|---------------------------------|---------------------------------|--|---|------------|------|-----------------------|---------------------------------|---------------------------------|--|---|------------|------|
| | Winchester Electronics Code No. | Winchester Electronics Code No. | | | Plug | Rec. | | Winchester Electronics Code No. | Winchester Electronics Code No. | | | Plug | Rec. |
| 7 | MRE 7P-G | MRE 7S-G | 7 | none | .3 | .3 | 26 | MRE 26P-G | MRE 26S-G | 26 | none | .6 | .5 |
| 8 | MRE 8P-N | MRE 8S-N | 8 | none | .2 | .2 | 34 | MRE 34P-G | MRE 34S-G | 34 | none | .8 | .7 |
| 9 | MRE 9P-G | MRE 9S-G | 9 | none | .3 | .3 | 41 | MRE 41P-G | MRE 41S-G | 41 | none | .8 | .6 |
| 11 | MRE 11 P-G | MRE 11S-G | 11 | none | .3 | .3 | 42 | MRE 42P-G | MRE 42S-G | 42 | none | .9 | .8 |
| 14 | MRE 14P-G | MRE 14S-G | 14 | none | .3 | .3 | 50 | MRE 50P-G | MRE 50S-G | 50 | none | 1.0 | .9 |
| 18 | MRE 18P-G | MRE 18S-G | 18 | none | .4 | .4 | 75 | MRE 75 P-G | MRE 75S-G | 75 | none | 1.5 | 1.3 |
| 20 | MRE 20P-G | MRE 20S-G | 20 | none | .5 | .4 | 104 | MRE 104P-JT | MRE 104S-G | 104 | none | 3.3 | 2.2 |
| 21 | MRE 21P-G | MRE 21S-G | 21 | none | .5 | .5 | | | | | | | |

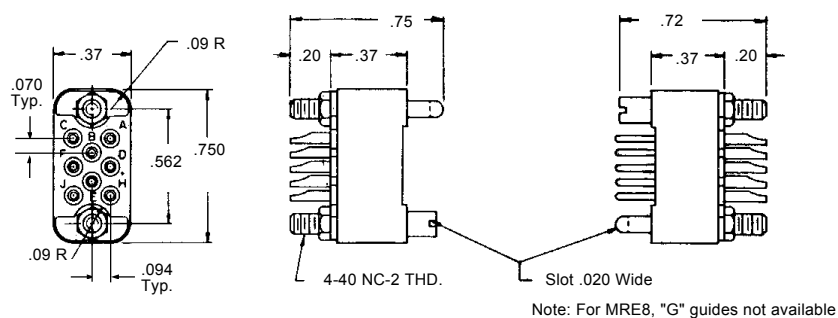
Outline

Dimensions are for reference only and are subject to change. Outline drawings on request.



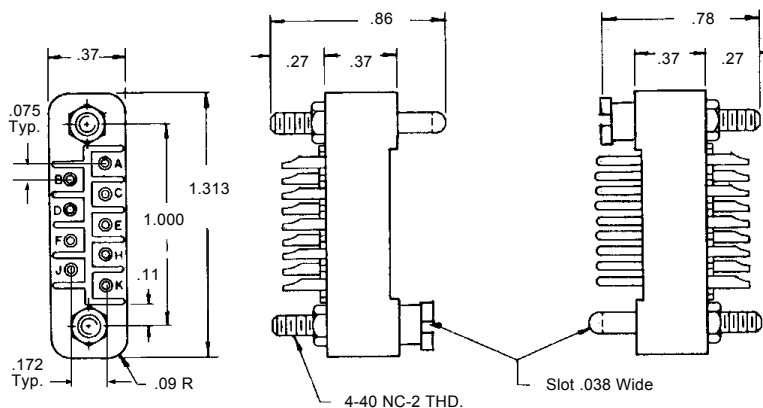
**Receptacle
MRE 7S-G**

**Plug
MRE 7P-G**



**Receptacle
MRE 8S-N**

**Plug
MRE 8P-N**

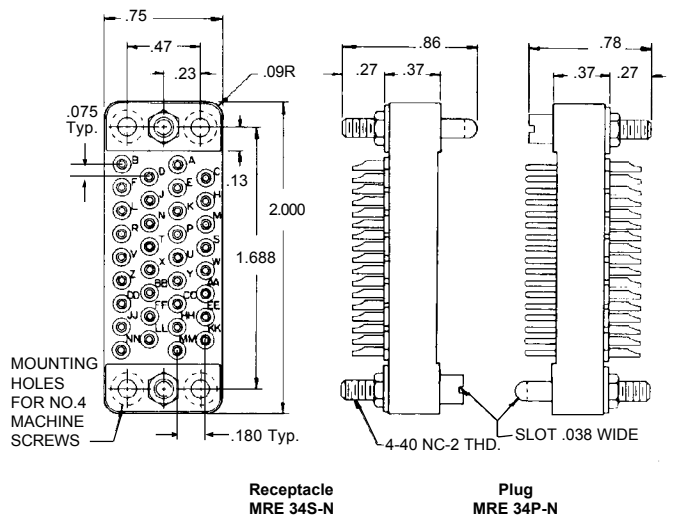
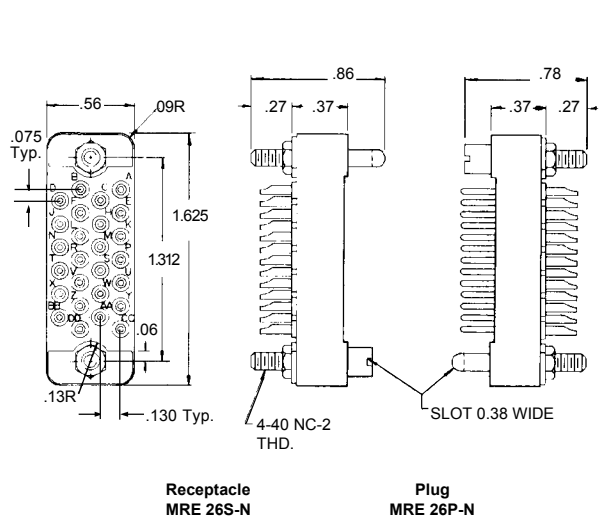
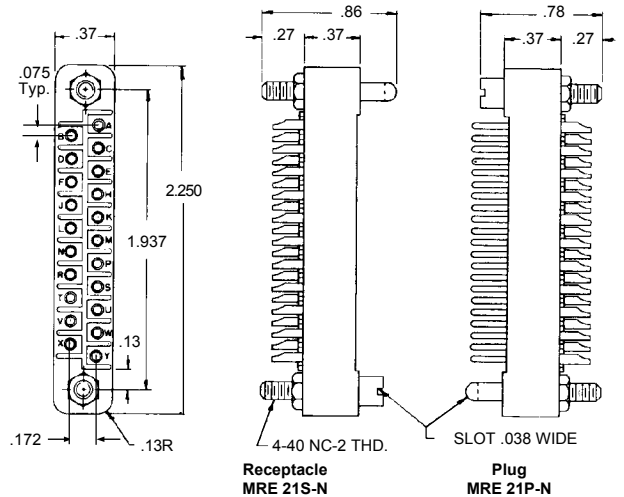
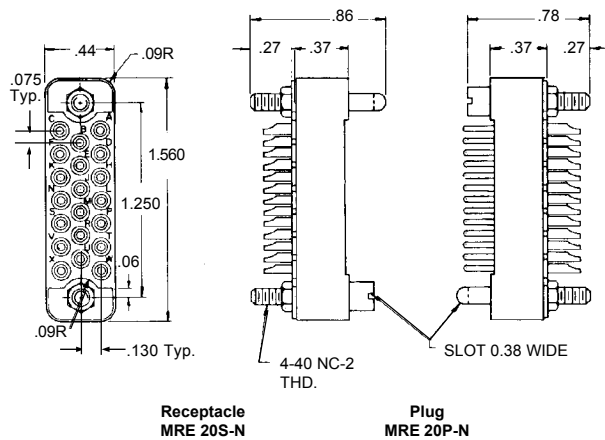
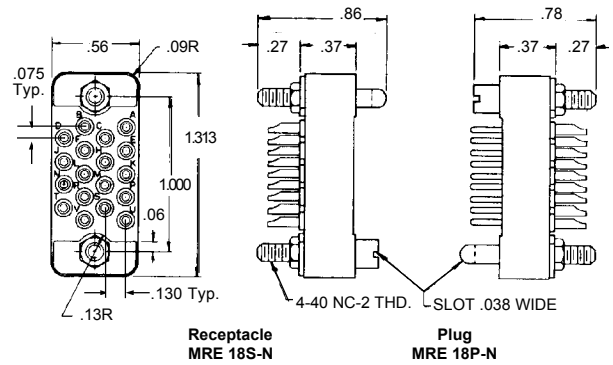
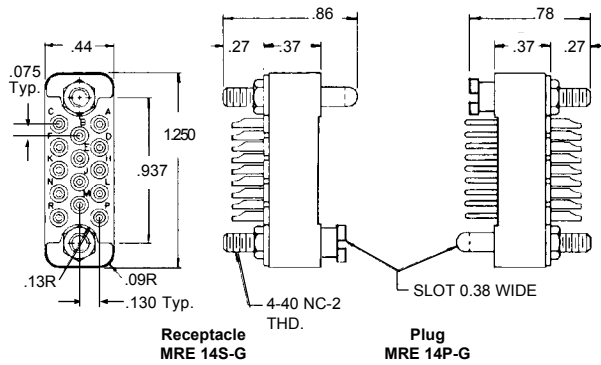


**Receptacle
MRE 9S-G**

**Plug
MRE 9P-G**

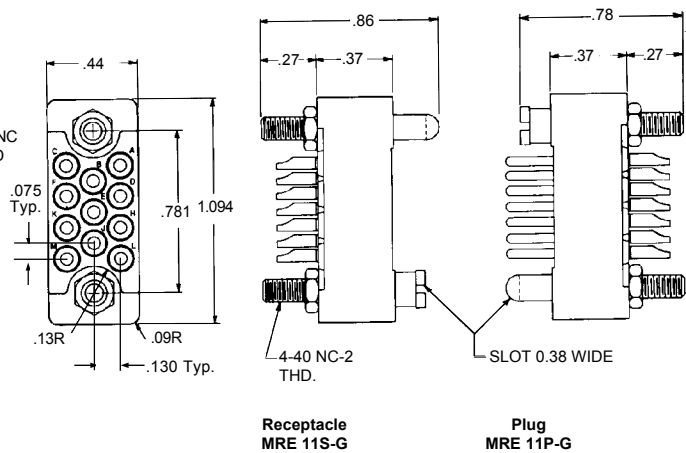
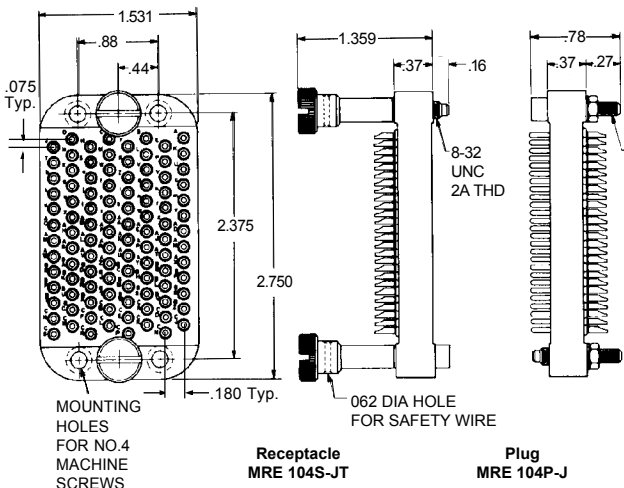
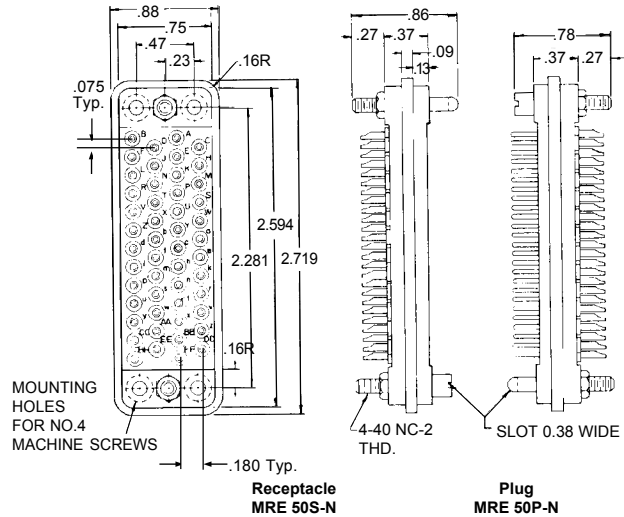
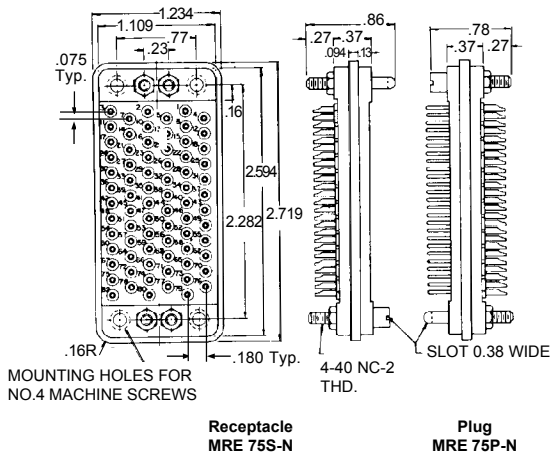
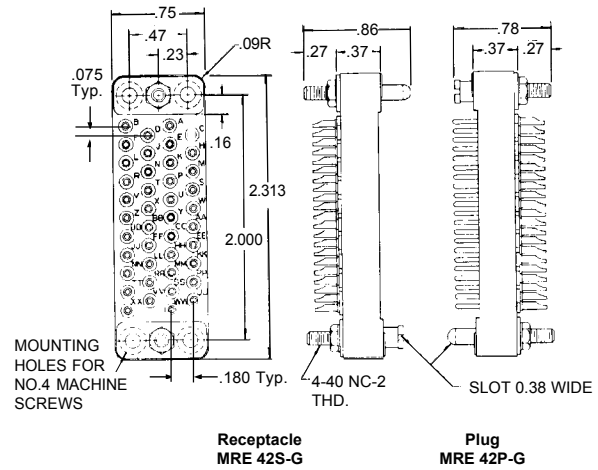
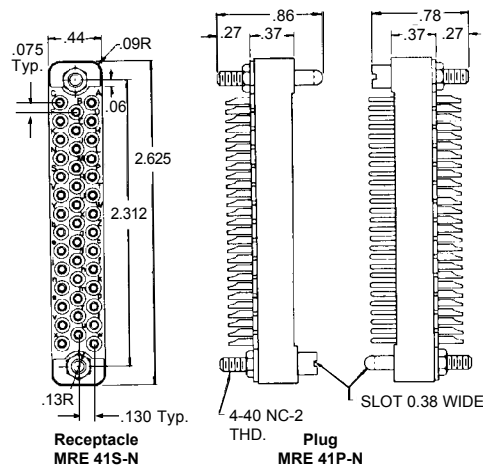
Outline

Dimensions are for reference only and are subject to change. Outline drawings on request.



Outline

Dimensions are for reference only and are subject to change. Outline drawings on request.

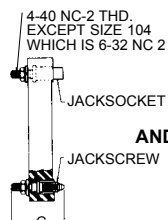


MRE Series

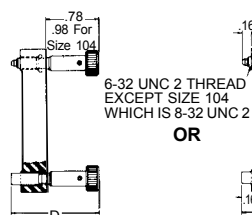
Polarized jackscrews give the ease and assurance of threaded positive coupling. The actuating side consists of two turnable screws, one male and one female, each with knurled and slotted knobs. On the mating half are the two fixed screws required to complete the locking action. When mated, the jackscrews may be locked with a safety wire through the hole in the self-locking pin (in the jackscrew shaft).

The drawings show the extension of the jackscrew knobs beyond a typical MRA connector and beyond the connector-and-hood assembly (center drawings). Dimensions given are constant for all connectors except as noted. Other dimensions applicable to various hood styles are detailed in the chart.

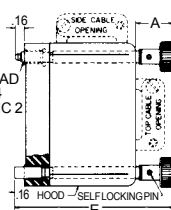
Jackscrews & Jacksockets



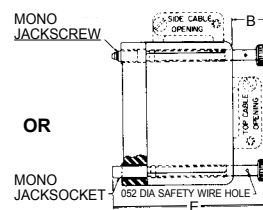
Connector with fixed Jackscrews.
Code designation: J



Mating connector half with turnable Jackscrews-with-Knobs.
Code designation: JT



Mating connector half with Hood and turnable Long Jackscrews-with Knobs. Code designation: JTCH, JTCH1



Mating connector half with Hood and turnable Monojacks.
Code designation: JTDH, JTDH1

Dimensions

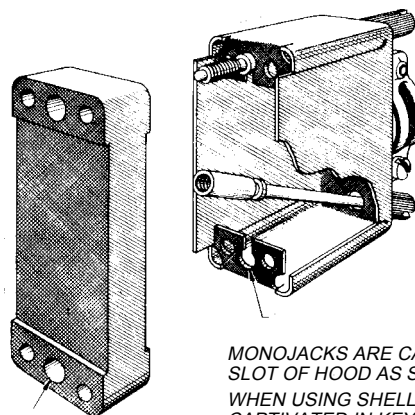
Dimensions are for reference only and are subject to change. Outline drawings on request.

| Connector Size | Dimension A | | | | Dimension B | | | | Dimension C | Dimension D | Dimension E | | | | Dimension F | | | |
|----------------|-------------|-----|-----|-----|-------------|-----|-----|-----|-------------|-------------|-------------|------|------|------|-------------|------|------|------|
| | H | H1 | H8 | H9 | H | H1 | H8 | H9 | | | H | H1 | H8 | H9 | H | H1 | H8 | H9 |
| MRE 7 | — | .58 | .58 | — | — | — | — | — | .80 | 1.31 | — | 2.09 | 2.09 | — | — | — | — | — |
| MRE 8 | — | .5 | .5 | .5 | — | — | — | — | .80 | 1.31 | — | 2.02 | 2.02 | 2.02 | — | — | — | — |
| MRE 9 | — | .59 | .58 | .59 | — | — | — | — | .80 | 1.31 | — | 2.41 | 2.09 | 2.41 | — | — | — | — |
| MRE 14 | — | .59 | .58 | .59 | — | — | — | — | .80 | 1.31 | — | 2.41 | 1.84 | 2.41 | — | — | — | — |
| MRE 18 | — | .59 | .83 | .59 | — | — | — | — | .80 | 1.31 | — | 2.41 | 2.09 | 2.41 | — | — | — | — |
| MRE 20 | — | .59 | .58 | .59 | — | — | — | — | .80 | 1.31 | — | 2.41 | 1.84 | 2.41 | — | — | — | — |
| MRE 21 | .67 | .59 | .67 | .59 | — | — | — | — | .80 | 1.31 | 2.09 | 2.41 | 2.09 | 2.41 | — | — | — | — |
| MRE 26 | .81 | .59 | .59 | .59 | — | — | — | — | .80 | 1.31 | 2.61 | 2.41 | 2.41 | 2.41 | — | — | — | — |
| MRE 34 | .63 | .63 | .63 | .63 | .63 | .63 | .63 | .63 | .80 | 1.31 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 |
| MRE 41 | .63 | .63 | — | — | — | — | — | — | .80 | 1.31 | 2.41 | 2.41 | — | — | — | — | — | — |
| MRE 42 | .58 | .58 | .58 | .58 | .58 | .58 | .58 | .58 | .80 | 1.31 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 |
| MRE 50 | .58 | .58 | .58 | .58 | .58 | .58 | .58 | .58 | .80 | 1.31 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 |
| MRE 75 | .56 | .56 | .56 | .56 | .56 | .56 | .56 | .56 | .80 | 1.31 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 |
| MRE 104 | .67 | — | — | .67 | .5 | — | — | .5 | .80 | 1.52 | 3.42 | — | — | 3.42 | 3.25 | — | — | 3.25 |

New Monojacks Assemble and Disassemble With Remarkable Ease and Speed

To free the connector from the hood simply remove four screws. Monojacks may be used on miniature rectangular connectors with from

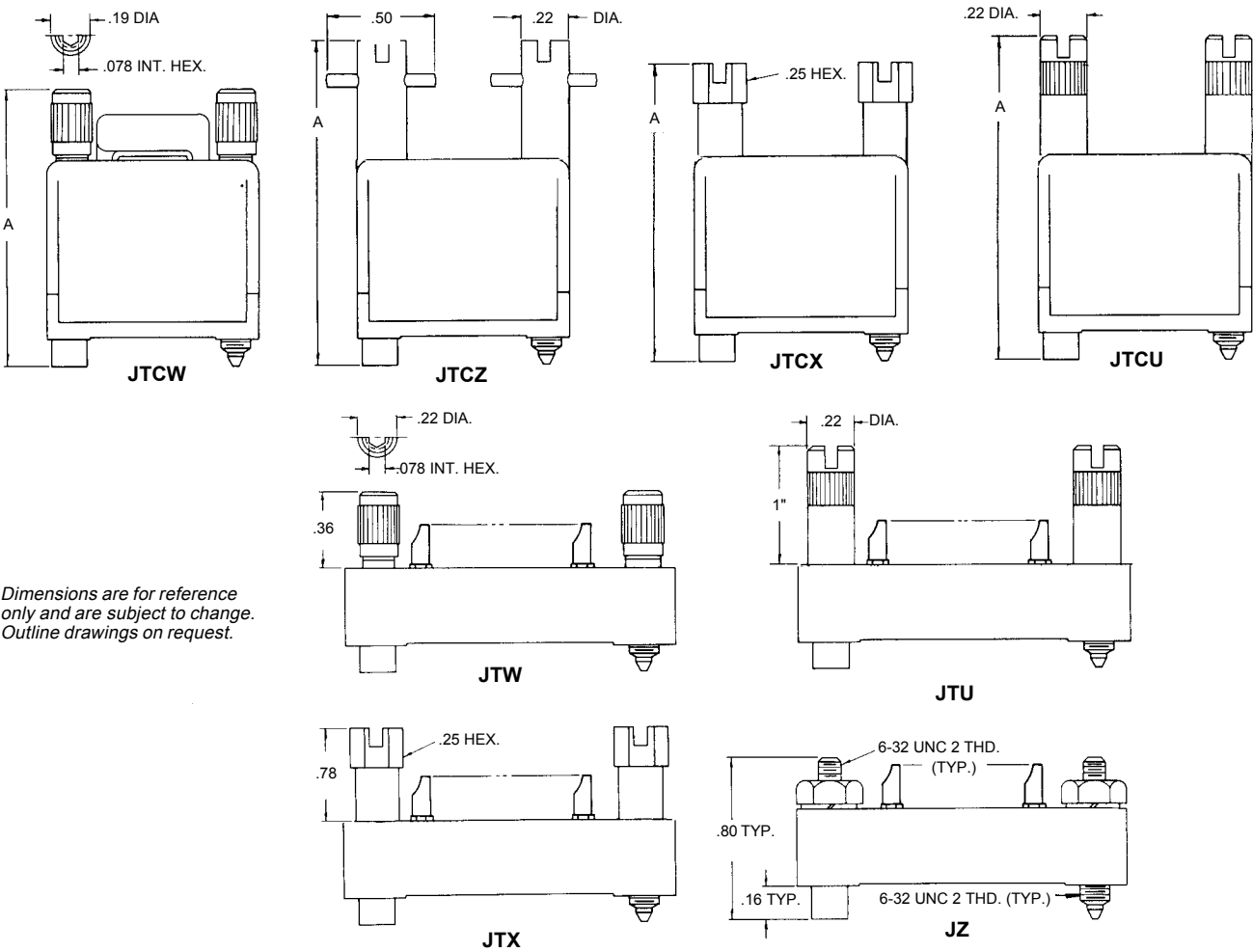
34 to 104 contacts. Molds have 2 center thru holes and 4 mounting holes.



MOLDINGS HAVE STRAIGHT THRU HOLES

MONOJACKS ARE CAPTIVATED IN KEYHOLE SLOT OF HOOD AS SHOWN ABOVE.
WHEN USING SHELLS, MONOJACKS ARE CAPTIVATED IN KEYHOLE OF SHELL AND CLEARANCE HOLES ARE PLACED IN HOODS.

Outline Jackscrews & Jacksockets



Dimensions are for reference only and are subject to change. Outline drawings on request.

Dimensions

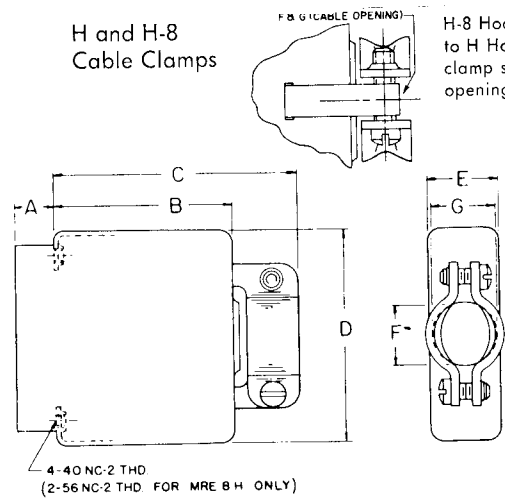
All jackscrews and sockets are stainless steel, passivated, except for J & JTD which are nickel-plated brass. All knobs are aluminum, anodized except JTW and JTCW which are stainless steel, passivated.

Hood Type

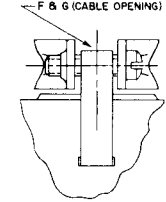
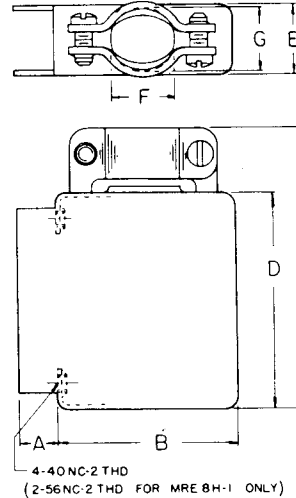
| Size | Type JTCW | | | | Size | Type JTCU | | | | Size | Type JTCX | | | | Size | Type JTCZ | | | |
|-------------|-----------|------|------|------|-------------|-----------|------|------|------|-------------|-----------|------|------|------|-------------|-----------|------|------|------|
| | H | H1 | H8 | H9 | | H | H1 | H8 | H9 | | H | H1 | H8 | H9 | | H | H1 | H8 | H9 |
| Dimension A | | | | | Dimension A | | | | | Dimension A | | | | | Dimension A | | | | |
| 7 | — | 1.91 | 1.91 | — | 7 | — | 2.16 | 2.16 | — | 7 | — | 2.03 | 2.03 | — | 7 | — | 2.16 | 2.16 | — |
| 9 | — | 2.22 | 1.91 | 2.22 | 9 | — | 2.47 | 2.16 | 2.47 | 9 | — | 2.34 | 2.03 | 2.34 | 9 | — | 2.47 | 2.16 | 2.47 |
| 14 | — | 2.22 | 1.66 | 2.22 | 14 | — | 2.47 | 1.91 | 2.47 | 14 | — | 2.34 | 1.78 | 2.34 | 14 | — | 2.47 | 1.91 | 2.47 |
| 18 | — | 2.22 | 1.66 | 2.22 | 18 | — | 2.47 | 1.91 | 2.47 | 18 | — | 2.34 | 2.03 | 2.34 | 18 | — | 2.47 | 2.16 | 2.47 |
| 20 | — | 2.22 | 1.66 | 2.22 | 20 | — | 2.47 | 1.91 | 2.47 | 20 | — | 2.34 | 1.78 | 2.34 | 20 | — | 2.47 | 1.91 | 2.47 |
| 21 | 1.91 | 2.22 | 1.91 | 2.22 | 21 | 2.16 | 2.47 | 2.16 | 2.47 | 21 | 2.03 | 2.34 | 2.03 | 2.34 | 21 | 2.16 | 2.47 | 2.16 | 2.47 |
| 26 | 2.22 | 2.22 | 2.22 | 2.22 | 26 | 2.47 | 2.47 | 2.47 | 2.47 | 26 | 2.61 | 2.34 | 2.34 | 2.34 | 26 | 2.77 | 2.47 | 2.47 | 2.47 |
| 34 | 2.22 | 2.22 | 2.22 | 2.22 | 34 | 2.47 | 2.47 | 2.47 | 2.47 | 34 | 2.34 | 2.34 | 2.34 | 2.34 | 34 | 2.47 | 2.47 | 2.47 | 2.47 |
| 41 | 2.22 | 2.22 | — | — | 41 | 2.47 | 2.47 | — | — | 41 | 2.34 | 2.34 | — | — | 41 | 2.47 | 2.47 | — | — |
| 42 | 2.22 | 2.22 | 2.22 | 2.22 | 42 | 2.47 | 2.47 | 2.47 | 2.47 | 42 | 2.34 | 2.34 | 2.34 | 2.34 | 42 | 2.47 | 2.47 | 2.47 | 2.47 |
| 50 | 2.22 | 2.22 | 2.22 | 2.22 | 50 | 2.47 | 2.47 | 2.47 | 2.47 | 50 | 2.34 | 2.34 | 2.34 | 2.34 | 50 | 2.47 | 2.47 | 2.47 | 2.47 |
| 75 | 2.22 | 2.22 | 2.22 | 2.22 | 75 | 2.47 | 2.47 | 2.47 | 2.47 | 75 | 2.34 | 2.34 | 2.34 | 2.34 | 75 | 2.47 | 2.47 | 2.47 | 2.47 |

Outline Hoods- Formed Aluminum

Dimensions are for reference only and are subject to change. Outline drawings on request.



H-8 Hoods are identical to H Hood except for cable clamp style and cable opening in the hood.



H-9 Cable Clamp

H-9 Hood is identical to H-1 Hood except for cable clamp style and cable opening in the hood.

Dimensions

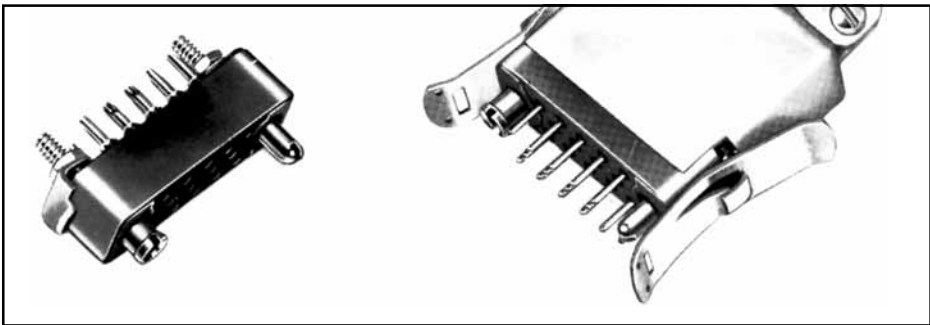
Top Cable Opening

| Code No. | Dimensions | | | | | Cable Opening | | Wt. Oz. | Fits Connector |
|-----------|-------------------------------|------|------|------|------|---------------|-----|---------|-----------------|
| | A | B | C | D | E | F | G | | |
| MRE 7H* | .28 | 1 | 1.31 | 1.22 | .44 | .31D | — | .3 | MRE 7 (P or S) |
| MRE 7H-8 | .28 | 1 | 1.30 | 1.22 | .44 | .59 | .31 | .3 | MRE 7 (P or S) |
| MRE 8H* | .28 | 1 | 1.31 | .81 | .44 | .25D | — | .2 | MRE 8 (P or S) |
| MRE 8H-8 | .28 | 1 | 1.30 | .81 | .44 | .31D | — | .2 | MRE 8 (P or S) |
| MRE 9H* | .28 | 1 | 1.31 | 1.31 | .44 | .31D | — | .3 | MRE 9 (P or S) |
| MRE 9H-8 | .28 | 1 | 1.30 | 1.31 | .44 | .59 | .31 | .3 | MRE 9 (P or S) |
| MRE 14H* | .28 | .75 | 1.19 | 1.25 | .5 | .44D | — | .3 | MRE 14 (P or S) |
| MRE 14H-8 | .28 | .75 | 1.05 | 1.25 | .5 | .59 | .38 | .3 | MRE 14 (P or S) |
| MRE 18H* | .28 | .75 | 1.19 | 1.31 | .63 | .44D | — | .4 | MRE 18 (P or S) |
| MRE 18H-8 | .28 | .75 | 1.25 | 1.31 | .63 | .63 | .44 | .4 | MRE 18 (P or S) |
| MRE 20H* | .25 | .75 | 1.19 | 1.56 | .5 | .44D | — | .3 | MRE 20 (P or S) |
| MRE 20H-8 | .25 | .75 | 1.05 | 1.56 | .5 | .66 | .38 | .3 | MRE 20 (P or S) |
| MRE 21H | .28 | .91 | 1.34 | 2.25 | .44 | .59 | .31 | .5 | MRE 21 (P or S) |
| MRE 21H-8 | .28 | .91 | 1.36 | 2.25 | .44 | .78 | .31 | .5 | MRE 21 (P or S) |
| MRE 26H | .28 | 1.28 | 1.72 | 1.63 | .64 | .59 | .38 | .4 | MRE 26 (P or S) |
| MRE 26H-8 | .28 | 1.28 | 1.78 | 1.63 | .64 | .78 | .44 | .4 | MRE 26 (P or S) |
| MRE 34H | .28 | 1.25 | 1.69 | 2 | .83 | .66D | — | .6 | MRE 34 (P or S) |
| MRE 34H-8 | .28 | 1.25 | 1.75 | 2 | .83 | 1.06 | .56 | .6 | MRE 34 (P or S) |
| MRE 41H | .28 | 1.25 | 1.69 | 2.63 | .5 | .66 | .44 | .6 | MRE 41 (P or S) |
| MRE 42H | .09 | 1.30 | 1.73 | 2.31 | .83 | .63D | — | .7 | MRE 42 (P or S) |
| MRE 42H-8 | .09 | 1.30 | 1.80 | 2.31 | .83 | 1.06 | .56 | .7 | MRE 42 (P or S) |
| MRE 50H | .09 | 1.30 | 1.73 | 2.59 | .83 | .63D | — | .8 | MRE 50 (P or S) |
| MRE 50H-8 | .09 | 1.30 | 1.80 | 2.59 | .83 | 1.06 | .56 | .8 | MRE 50 (P or S) |
| MRE 75H | .09 | 1.31 | 1.75 | 2.59 | 1.19 | .63 | .88 | 1.0 | MRE 75 (P or S) |
| MRE 75H-8 | .09 | 1.31 | 1.86 | 2.59 | 1.19 | 1 | .88 | 1.0 | MRE 75 (P or S) |
| MRA104H | FOR DIMENSIONS SEE PAGE RP/36 | | | | | | | | |

* H Hoods for MRE 7, 8, 9, 14, 18 and 20 will not accept JTC hardware. Use H8 hoods.

Side Cable Opening

| Code No. | Dimensions | | | | | Cable Opening | | Wt. Oz. | Fits Connector |
|-----------|-------------------------------|------|------|------|------|---------------|-----|---------|-----------------|
| | A | B | C | D | E | F | G | | |
| MRE 7H-1 | .28 | 1.28 | 1.53 | 1.22 | .44 | .31D | — | .3 | MRE 7 (P or S) |
| MRE 8H-1 | .28 | 1.28 | 1.13 | .81 | .44 | .25 | — | .2 | MRE 8 (P or S) |
| MRE 8H-9 | .28 | 1.28 | 1.13 | .81 | .44 | .59 | .31 | .2 | MRE 8 (P or S) |
| MRE 9H-1 | .28 | 1.28 | 1.63 | 1.31 | .44 | .31D | — | .3 | MRE 9 (P or S) |
| MRE 9H-9 | .28 | 1.28 | 1.61 | 1.31 | .44 | .59 | .31 | .3 | MRE 9 (P or S) |
| MRE 14H-1 | .28 | 1.28 | 1.69 | 1.25 | .5 | .38D | — | .3 | MRE 14 (P or S) |
| MRE 14H-9 | .28 | 1.28 | 1.55 | 1.25 | .5 | .59 | .38 | .3 | MRE 14 (P or S) |
| MRE 18H-1 | .28 | 1.28 | 1.75 | 1.31 | .63 | .44D | — | .3 | MRE 18 (P or S) |
| MRE 18H-9 | .28 | 1.28 | 1.81 | 1.31 | .63 | .69 | .44 | .3 | MRE 18 (P or S) |
| MRE 20H-1 | .28 | 1.28 | 2 | 1.56 | .5 | .38D | — | .3 | MRE 20 (P or S) |
| MRE 20H-9 | .28 | 1.28 | 1.86 | 1.56 | .5 | .66 | .38 | .3 | MRE 20 (P or S) |
| MRE 21H-1 | .28 | 1.28 | 2.69 | 2.25 | .44 | .53 | .25 | .5 | MRE 21 (P or S) |
| MRE 21H-9 | .28 | 1.28 | 2.72 | 2.25 | .44 | .78 | .31 | .5 | MRE 21 (P or S) |
| MRE 26H-1 | .28 | 1.28 | 2.06 | 1.63 | .64 | .59 | .38 | .4 | MRE 26 (P or S) |
| MRE 26H-9 | .28 | 1.28 | 2.13 | 1.63 | .64 | .78 | .44 | .4 | MRE 26 (P or S) |
| MRE 34H-1 | .28 | 1.25 | 2.42 | 2 | .83 | .66D | — | .6 | MRE 34 (P or S) |
| MRE 34H-9 | .28 | 1.25 | — | 2 | .83 | .81 | .56 | .6 | MRE 34 (P or S) |
| MRE 41H-1 | .28 | 1.25 | 3.06 | 2.63 | .5 | .66 | .44 | .6 | MRE 41 (P or S) |
| MRE 42H-1 | .09 | 1.30 | 2.73 | 2.31 | .83 | .63 | .5 | .7 | MRE 42 (P or S) |
| MRE 42H-9 | .09 | 1.30 | — | 2.31 | .83 | .84 | .56 | .7 | MRE 42 (P or S) |
| MRE 50H-1 | .09 | 1.30 | 3.02 | 2.59 | .83 | .63 | .5 | .8 | MRE 50 (P or S) |
| MRE 50H-9 | .09 | 1.30 | — | 2.59 | .83 | 1.06 | .56 | .8 | MRE 50 (P or S) |
| MRE 75H-1 | .09 | 1.31 | 3.02 | 2.59 | 1.19 | .63 | .88 | 1.0 | MRE 75 (P or S) |
| MRE 75H-9 | .09 | 1.31 | — | 2.59 | 1.19 | 1 | .88 | 1.0 | MRE 75 (P or S) |
| MRA104H-9 | FOR DIMENSIONS SEE PAGE RP/36 | | | | | | | | |



Lock Tabs (MRE-V shown)

Lever & Pivot Assemblies (MRE-VL shown)

Hoods – Locking

| Lever & Pilot Assembly | Lock Tabs (See Note) | Used on Connectors |
|------------------------|----------------------|-------------------------------|
| MRE-VL | MRE-V | MRA 9, 14, 20, 34, 41, 42, 66 |
| MRE-VL2 | MRE-V2 | MRE 50, 75 |

Vibration Locks*

Vibration locks offer simplicity of design and positive locking in excess of 50G shock impact and 10G vibration acceleration. Mating halves automatically lock when engaged. To unlock, depress the levers. Drilled holes in the levers

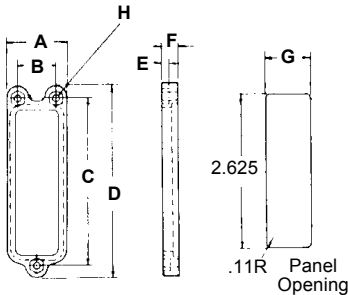
are provided for safety wiring. Vibration locks are available separately for assembly on connectors now in service. Each code number indicates two units: two levers with two pivots, and two lock tabs.

*US Patent Number 2760174

Note: When panel mounting the lock-tab half of a MRE 34, MRE 42 or MRE 50 and MRE 66 connector, flat washers (.033 minimum thickness) should be used on the mounting screws to shim the molding away from the panel.

Dimensions / Outline Mounting Brackets

| Code No. | DIMENSIONS | | | | | | | Wt. Oz. |
|----------|------------|-------|-------|------|-----|-----|------|--|
| | A | B | C | D | E | F | G | |
| MRE 50B | 1.06 | .688 | 3.031 | 3.44 | .13 | .28 | .78 | .128 Dia 3 Holes (No. 4 Mounting Screw) .4 |
| MRE 75B | 1.48 | 1.047 | 3.062 | 3.56 | .14 | .30 | 1.14 | .150 Dia 3 Holes (No. 6 Mounting Screw) .6 |



MRE 50 and MRE 75 connectors use the standard MRE 50 and MRE 75 mounting brackets

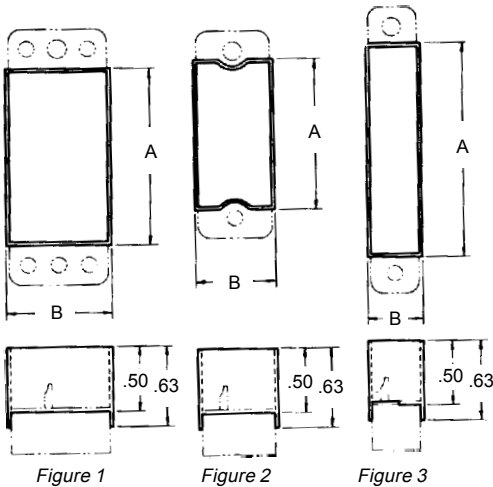
Dimensions / Outline Pre-Shaped Nylon Potting Forms

Dimensions are for reference only and are subject to change. Outline drawings on request.

Each form matches the back opening contour of its appropriate shell, and stays easily in place during the potting operation. Of negligible weight, it need not be removed from

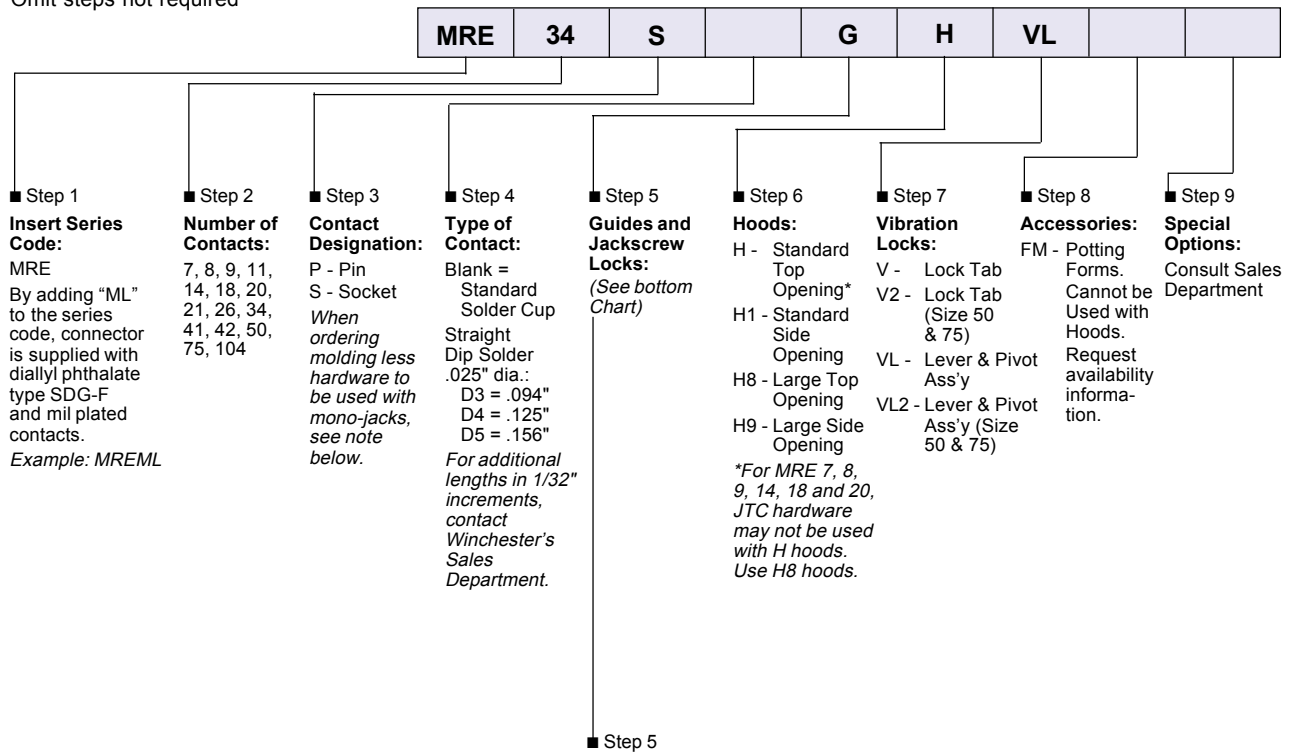
the connector after potting. Because of floating contacts, connector halves should always be engaged during the potting operation to preserve contact alignment.

| Potting Form Code No. | Fig. | Dimensions | |
|-----------------------|------|------------|------|
| | | A | B |
| MRE 7 FM | 3 | .62 | .43 |
| MRE 8 FM | 2 | .46 | .43 |
| MRE 9 FM | 3 | .77 | .43 |
| MRE 14 FM | 2 | .93 | .49 |
| MRE 18 FM | 2 | .87 | .61 |
| MRE 20 FM | 2 | 1.12 | .49 |
| MRE 21 FM | 3 | 1.68 | .43 |
| MRE 26 FM | 2 | 1.18 | .61 |
| MRE 34 FM | 1 | 1.38 | .80 |
| MRE 41 FM | 2 | 2.18 | .49 |
| MRE 42 FM | 1 | 1.69 | .80 |
| MRE 50 FM | 1 | 1.97 | .80 |
| MRE 75 FM | 1 | 1.98 | 1.16 |



Ordering Information

Omit steps not required



Guides

- *G Phosphor Bronze Cylindrical Guides*
- K Beryllium Copper Cylindrical Guides
- *N Brass Cylindrical Guides*

Guides are not recommended for Size 104

"P" indicates two guide pins or two jackscrews (Ex. JTCP)

"S" indicates two guide sockets or two jacksockets. (Ex. GS)

Jackscrew Locks

- ***J Polarized Fixed Jackscrew and Jacksocket
- JT Polarized Short Turning Jackscrew and Jacksocket
- JTC Polarized Long Turning Jackscrew and Jacksocket
- *** JTD Polarized Long Turning Mono-Jackscrew and Mono-Jacksocket for Sizes 34, 42, 50, 75, and 104 only.

- ** JZ Same as J but with 6-32 mtg. thd. (Not available 5-3, 8) (Std. on 104)
- **JTW Same as JT but with knurled round knob with internal hex (not avail. 5-3, 8, 104)
- **JTU Same as JT but with knurled round knob with screwdriver slot (not avail. 5-3, 8, 104)
- **JTX Same as JT but with hex knob (not avail. 5-3, 8, 104)
- **JTCW Same as JTC but with knurled round knob with internal hex (not avail. 5-3, 8, 104)
- **JTCU Same as JTC but with knurled round knob with screwdriver slot (not avail. 5-3, 8, 104)
- **JTCX Same as JTC but with hex knob (not avail. 5-3, 8, 104)
- **JTCZ Same as JTC but with prybar knob.

** Request availability information.

*** Material: Nickel-plated brass - standard
Example: MRE34SJTDBH8

* For passivated stainless steel add SS suffix (**Example:** MRE34SGSS)

Mounting Note: Connectors MRE 41, MRE 26, and smaller use guides for mounting in a hood or on a panel. Connectors MRE 34, MRE 42, MRE 50, MRE 75, use four #4 machine screws, in addition to guides, for mounting in a hood or on a panel.

Note: When ordering hoods, hardware and connectors separately for use with JTD Monojacks, connectors must be ordered as follows:

Pin connector = MRE34P8, MRE42P8, etc.

Socket connector = MRE34S8, MRE42S8, etc.

The number "8" indicates special housing for use with the JTD Monojack hardware (available on sizes 34, 42, 50, 66, 75 and 104).

XMRA & XMRE Series

XMRA & XMRE Series External Miniature Rectangular / #16 Contacts / .062" Dia. 13 Amps & #20 Contacts / .040" Dia. / 7.5 Amps



A typical Series "XMRE" Receptacle and Plug fully wired and potted.

The XMRE and XMRA Series connectors are designed to provide a sturdy, space-saving, lightweight electrical connection. Inserts are

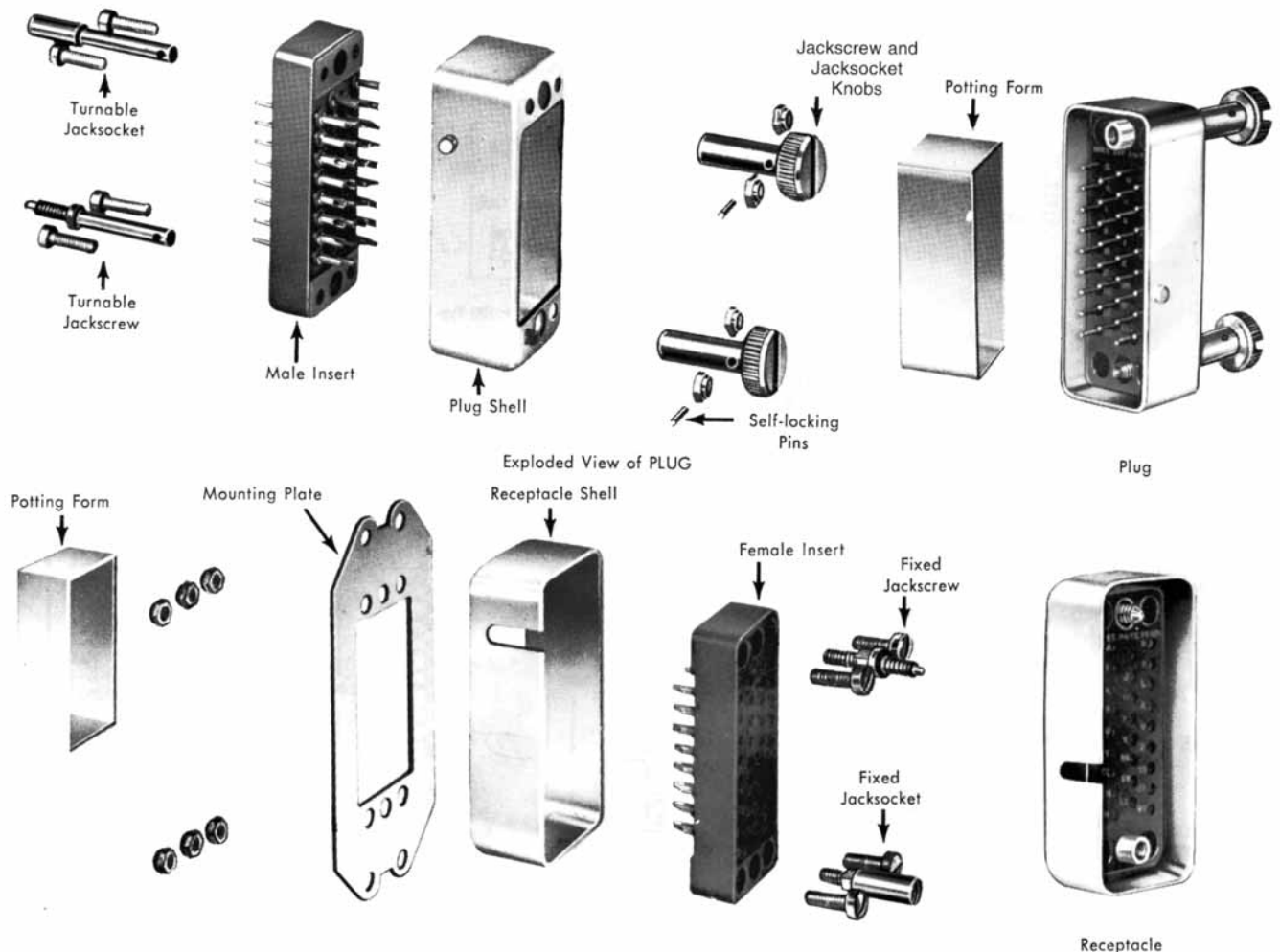
housed in protective shells with screw lock coupling plus wall and cable mounting accessories available.

Specifications

| | | | |
|---------------------------|---|----------------------|--|
| Current Rating: | XMRA - 13 amps XMRE - 7.5 amps | Dielectric: | Brown mineral filled diallyl phthalate. Also available in gray glass filled diallyl phthalate, per MIL-M-14, SDG-F. |
| No. of Contacts: | XMRA - 9, 14, 20, 34, 42, 50, 50-8, 66, 75, 104 XMRE - 9, 14, 18, 20, 26, 34, 42, 50, 75, 104 | Polarization: | A polarizing stud in the plug shell and a mating slot in the receptacle shell eliminates misalignment. Jackscrews and jacksockets or guide pins and sockets are alternative methods of polarization. |
| Pin Contacts: | XMRA - .062 diameter, gold plated brass XMRE - .040 diameter, gold plated brass | Hoods: | Anodized Aluminum. May be applied to both plug and receptacles. Both top and side opening hoods are available. |
| Socket Contacts: | Phosphor bronze plated gold. | | |
| Termination Types: | XMRA - .070 dia. solder cup will accept up to #16 AWG stranded wire. XMRE - .048 dia. solder cup will accept up to #20 AWG stranded wire. | | |
| Electrical Data: | Both XMRE and XMRA meet high potential performance requirements of MIL-C-28748. Military versions are QPL'd to M28748/1 and M28748/2 (XMRA) and to M28748/5 and M28748/6 (XMRE) The minimum dielectric withstanding voltage is one minute electrification at 1000 VAC (sea level) for XMRA and 1200 VAC for XMRE Series. | | |



Connector Assemblies



Connector Terms

Plug: The complete connector half which has the plug shell as part of its assembly.

Receptacle: The complete connector half which has the receptacle shell as part of its assembly.

Shell: The metal housing in which a male or female insert is assembled. A shell is either a plug shell or a receptacle shell.

Plug Shell: One which is designed to be inserted into a receptacle shell.

Receptacle Shell: One which is designed to receive and enclose the plug shell upon engagement.

Male Insert: The molded insulator body containing pin contacts.

Female Insert: The molded insulator body containing socket contacts.

Pin Contacts: Male metal conductors that fit into the socket contacts.

Socket Contacts: Female metal conductors, tubular in shape, which receive the pin contacts and retain them by spring tension.

Polarization: A means of controlling the engagement of a plug and receptacle so that correct mating of the contacts is achieved.

Potting Form: A plastic mold used to retain and shape the sealing compound during the moisture-proofing, or potting operation.

Potting: A method of moisture-proofing the back of a plug or receptacle and the soldered wire connections by injecting a free flowing sealing compound into a pre-shaped form and allowing it to set. The result is a homogeneous mass, chemically bonded to the back of the insert and around the soldered connections.

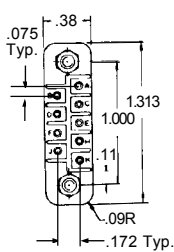
Accessories: Those components such as hoods, mounting plates and finger grips which are attachable to a plug or receptacle to facilitate mounting and/or handling of the connector.

XMRA & XMRE Series

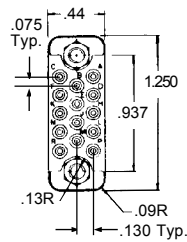
Outline

Dimensions are for reference only and are subject to change. Outline drawings on request.

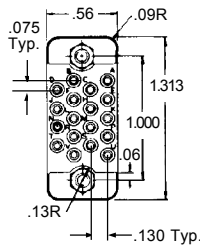
Contact Arrangements



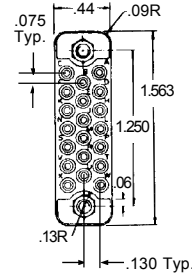
9 Contacts
XMRE 9 or XMRA 9



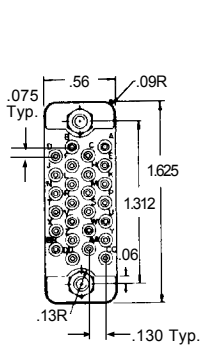
14 Contacts
XMRE 14 or XMRA 14



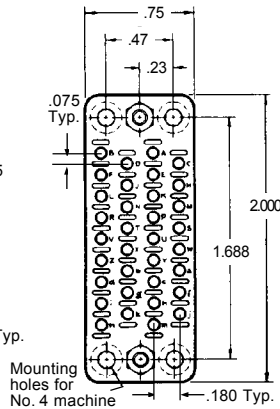
18 Contacts
XMRE 18



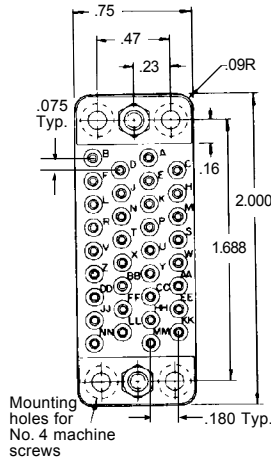
20 Contacts
XMRE 20 or XMRA 20



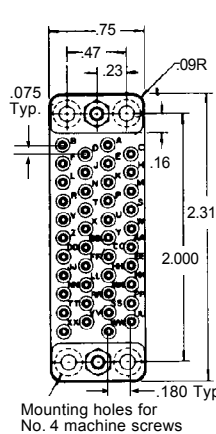
26 Contacts
XMRE 26



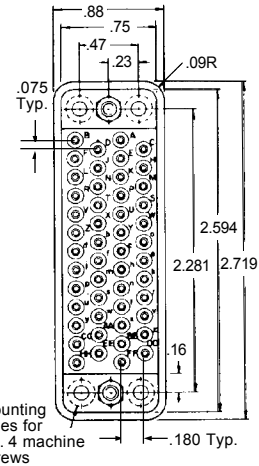
34 Contacts XMRA 34



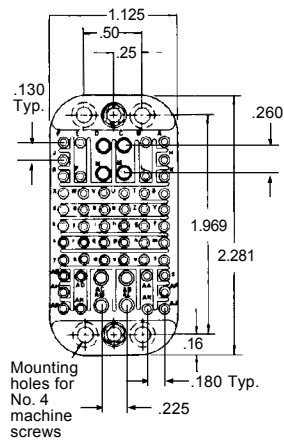
34 Contacts XMRE 34



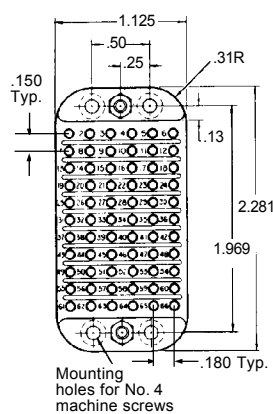
42 Contacts
XMRE 42 or XMRA 42



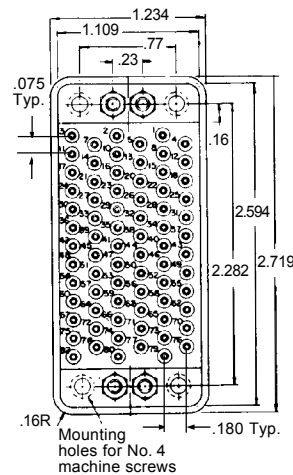
50 Contacts
XMRE 50 or XMRA 50



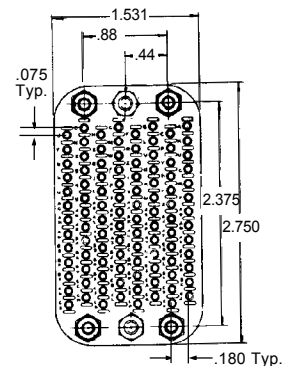
58 Contacts
XMRA 50-8



66 Contacts
XMRA 66



75 Contacts
XMRE 75 or XMRA 75



104 Contacts
XMRA 104
XMRE 104

Views are rear (wiring end) of female inserts (male inserts are mirror image). The spacing, arrangement, and identification of contacts of the XMRE inserts are the same as found on the Series MRE Connectors for the same number of contacts.

XMRA & XMRE Series

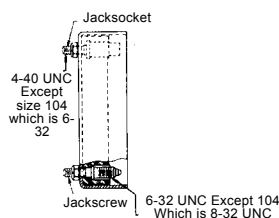
Jackscrews & Jacksockets

Jackscrew Locking Devices

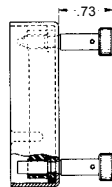
Polarized jackscrews offer the ease and assurance of threaded positive coupling. They are particularly desirable for the larger connectors (XMRE 34 and larger) whenever they are to be used in locations that make it difficult to apply enough direct pull to separate the two halves of the connector.

Type C (long-turning jackscrews and jacksockets) or Type D (mono-jacks) must be specified if both jackscrews and hood are required on the same connector half. Monojacks eliminate the need for roll pins, spacers and washers.

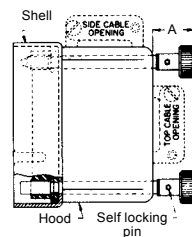
Outline



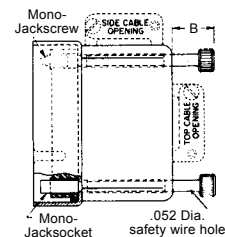
Connector with fixed Jackscrews
Code designation: F



AND
Mating connector half with turnable Jackscrews-with-Knobs
Code designation: M



OR
Mating connector half with Hood and turnable Long Jackscrews-with-Knobs



Code designation: C-0300, C-0400
OR
Mating connector half with Hood and turnable Monojacks
Code designation: D-0300, D-0400

Drawings show extension of knobs beyond shell (left) and beyond hood. Refer to details of shells and hoods for the other dimensions which vary according to connector size.

Dimensions

Dimension A

| SERIES | CODE | 9 | 14 | 18 | 20 | 26 | 34 | 42 | 50 | 50-8 | 66 | 75 | 104 |
|--------|-------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|
| XMRE | 0300 | — | — | — | — | .77 | .58 | .53 | .53 | — | — | .52 | — |
| | 0300X | .53 | .53 | .78 | .53 | .55 | .58 | .53 | .53 | — | — | .52 | — |
| | 0400 | .55 | .55 | .55 | .55 | .55 | .58 | .53 | .53 | — | — | .52 | — |
| | 0400X | — | — | — | .55 | .55 | .58 | .53 | .53 | — | — | .52 | — |
| XMRA | 0700 | — | — | — | — | — | .58 | — | — | .64 | .64 | — | .52 |
| | 0800 | — | — | — | — | — | .58 | — | — | .64 | .64 | — | .52 |

Dimension B

| CODE | 34 | 42 | 50 | 66 | 75 | 104 |
|------|-----|-----|-----|-----|-----|-----|
| 0300 | .59 | .55 | .55 | — | .53 | — |
| 0400 | .59 | .55 | .55 | — | .53 | — |
| 0700 | — | — | — | .38 | — | .38 |
| 0800 | — | — | — | .38 | — | .38 |

| Part | Code Letter | Wt. Oz. See Notes 1 & 2 | Material and Finish |
|--------------------------|------------------|-------------------------|--------------------------------------|
| Jackscrews | Turntable M | 0.30 | stainless steel with passivating dip |
| Jacksockets | | | |
| Jackscrews | Long Turntable C | 0.45 | stainless steel with passivating dip |
| Jacksockets | | | |
| Jackscrews | Fixed F | 0.15 | nickel-plated brass |
| Jacksockets | | | |
| Knobs (except Monojacks) | | | al. anodized |
| Monojackscrews | Turning D | | nickel-plated brass |
| Monojacksockets | | | |

Note 1: Weights are given for pairs, i.e., for a jackscrew and a jacksocket, etc., so that the weight figure may be added once to the weights of other accessories when computing the total weight of a plug or receptacle.

Note 2: Weights of turnable jackscrews and turnable jacksockets include knobs and roll pins; weights of fixed hardware include nuts.

| Guide Socket Code Letter | Actual Size Photo | |
|--------------------------|-------------------|---|
| G | | G Type For General Use |
| K | | K Type For High Electrical Conductivity |
| N | | N Type For Extra Mechanical Strength |

MATERIALS

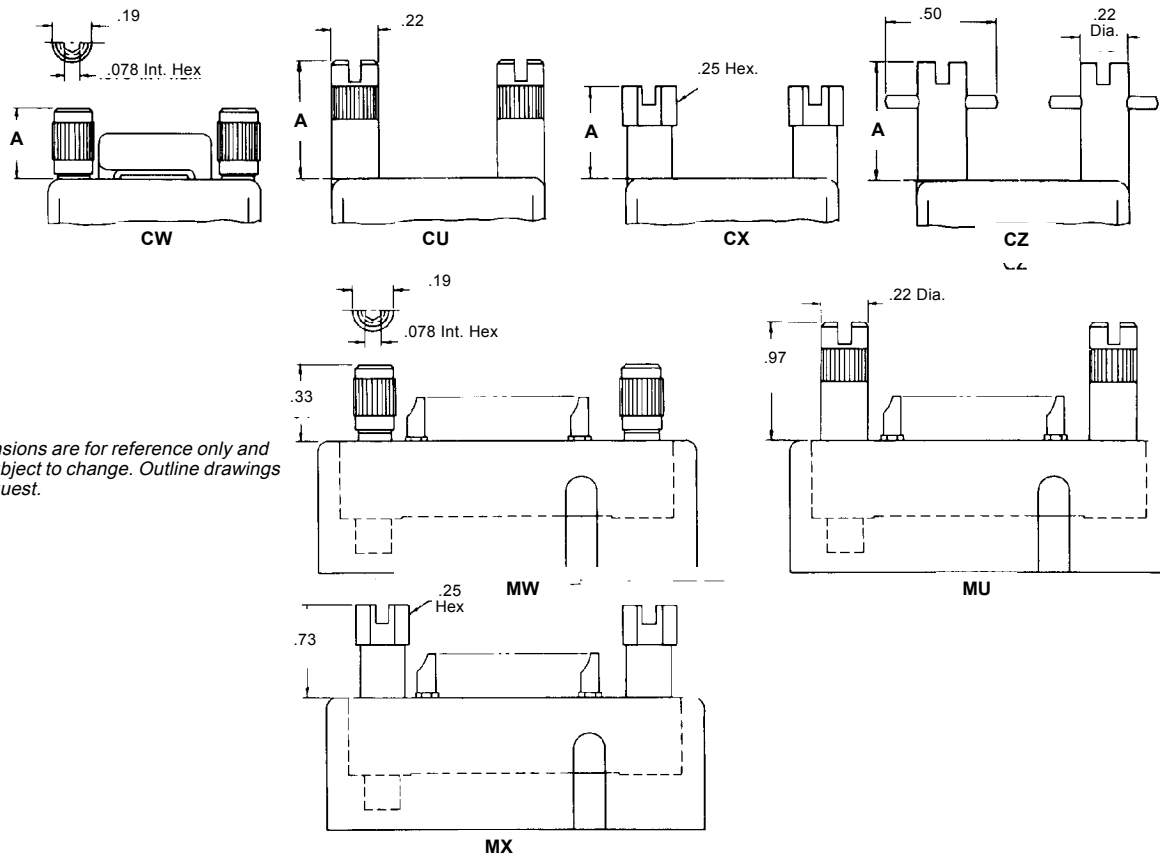
"G" Socket: Phosphor bronze.
"K" Socket: Beryllium copper.
"N" Socket: Brass.
Guide Pin: Brass

FINISH

Gold over Nickel

XMRA & XMRE Series

Outline Jackscrews & Jacksockets



Dimensions

All jackscrews and sockets are stainless steel, passivated, except F & D which are nickel-plated brass.

All knobs are aluminum, anodized except MW and CW which are stainless steel, passivated.

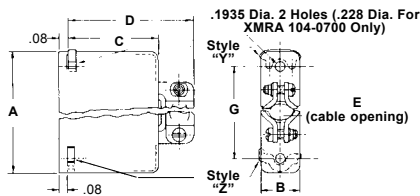
Jackscrew Locking For Series XMRE, XMRA

| Size | 0300 | 0400 | 0300X | 0400X | 0700 | 0800 | Size | 0300 | 0400 | 0300X | 0400X | 0700 | 0800 |
|-----------------------|------|------|-------|-------|------|------|-----------------------|------|------|-------|-------|------|------|
| Dimension A - Type CW | | | | | | | Dimension A - Type CU | | | | | | |
| 9 | — | .36 | .34 | .36 | — | — | 9 | — | .61 | .59 | .61 | — | — |
| 14 | — | .36 | .34 | .36 | — | — | 14 | — | .61 | .59 | .61 | — | — |
| 18 | — | .36 | .34 | .36 | — | — | 18 | — | .61 | .59 | .61 | — | — |
| 20 | — | .36 | .34 | .36 | — | — | 20 | — | .61 | .59 | .61 | — | — |
| 26 | .36 | .36 | .36 | .36 | — | — | 26 | .61 | .61 | .61 | .61 | — | — |
| 34 | .39 | .39 | .39 | .39 | .47 | .47 | 34 | .64 | .64 | .64 | .64 | .72 | .72 |
| 42 | .34 | .34 | .34 | .34 | — | — | 42 | .59 | .59 | .59 | .59 | — | — |
| 50 | .34 | .34 | .34 | .34 | — | — | 50 | .59 | .59 | .59 | .59 | — | — |
| 50-8 | — | — | — | — | .47 | .47 | 50-8 | — | — | — | — | .72 | .72 |
| 66 | — | — | — | — | .47 | .47 | 66 | — | — | — | — | .72 | .72 |
| 75 | .33 | .33 | .33 | .33 | — | — | 75 | .58 | .58 | .58 | .58 | — | — |
| Size | 0300 | 0400 | 0300X | 0400X | 0700 | 0800 | Size | 0300 | 0400 | 0300X | 0400X | 0700 | 0800 |
| Dimension A - Type CX | | | | | | | Dimension A - Type CZ | | | | | | |
| 9 | — | .48 | .47 | .48 | — | — | 9 | — | .61 | .59 | .61 | — | — |
| 14 | — | .48 | .47 | .48 | — | — | 14 | — | .61 | .59 | .61 | — | — |
| 18 | — | .48 | .72 | .48 | — | — | 18 | — | .61 | .84 | .61 | — | — |
| 20 | — | .48 | .47 | .48 | — | — | 20 | — | .61 | .59 | .61 | — | — |
| 26 | .77 | .48 | .48 | .48 | — | — | 26 | .92 | .61 | .61 | .61 | — | — |
| 34 | .52 | .52 | .52 | .52 | .61 | .61 | 34 | .64 | .64 | .64 | .64 | .72 | .72 |
| 42 | .47 | .47 | .47 | .47 | — | — | 42 | .59 | .59 | .59 | .59 | — | — |
| 50 | .47 | .47 | .47 | .47 | — | — | 50 | .59 | .59 | .59 | .59 | — | — |
| 50-8 | — | — | — | — | .61 | .61 | 50-8 | — | — | — | — | .72 | .72 |
| 66 | — | — | — | — | .61 | .61 | 66 | — | — | — | — | .72 | .72 |
| 75 | .45 | .45 | .45 | .45 | — | — | 75 | .58 | .58 | .58 | .58 | — | — |

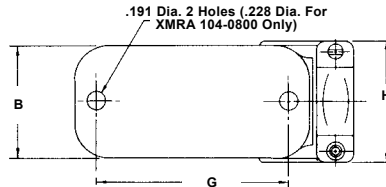
XMRA & XMRE Series

Outline Hoods- Drawn Aluminum

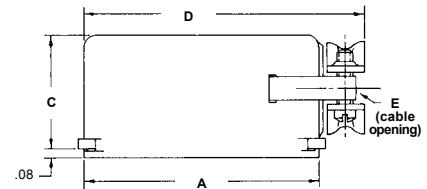
Dimensions are for reference only and are subject to change. Outline drawings on request.



Top Cable Opening



Side Cable Opening



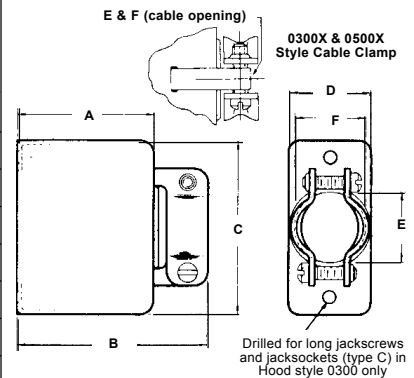
| | Hood Part Number | Dimensions | | | | | |
|---|------------------|------------|------|------|------|---------|-------|
| | | A | B | C | D | E | G |
| For use with Type C Jacksockets & Jackscrews | XMRA 34-0700 | 2.09 | .84 | 1.17 | 1.59 | .66x.75 | 1.688 |
| | XMRA 50-8-0700 | 2.38 | 1.22 | 1.17 | 1.69 | 1.03D | 1.969 |
| | XMRA 66-0700 | 2.38 | 1.22 | 1.17 | 1.69 | 1.03D | 1.969 |
| | XMRA 104-0700 | 2.84 | 1.63 | 2.23 | 2.75 | 1.19D | 2.375 |
| For use with Type D Jacksockets & Jackscrews | XMRA 34-0700D | 2.09 | .84 | 1.17 | 1.59 | .66x.75 | 1.688 |
| | XMRA 50-8-0700D | 2.38 | 1.22 | 1.17 | 1.69 | 1.03D | 1.969 |
| | XMRA 66-0700D | 2.38 | 1.22 | 1.17 | 1.69 | 1.03D | 1.969 |
| | XMRA 104-0700D | 2.84 | 1.63 | 2.23 | 2.75 | 1.19D | 2.375 |
| For use with G, K, or N, Type Guides or Type F Jackscrews | XMRA 34-0900 | 2.09 | .84 | 1.17 | 1.59 | .66x.75 | — |
| | XMRA 50-8-0900 | 2.38 | 1.22 | 1.17 | 1.69 | 1.03D | — |
| | XMRA 66-0900 | 2.38 | 1.22 | 1.17 | 1.69 | 1.03D | — |
| | XMRA 104-0900 | 2.84 | 1.63 | 2.23 | 2.75 | 1.19D | — |

| | Hood Part Number | Dimensions | | | | | | |
|---|------------------|------------|------|------|------|---------|-------|-------|
| | | A | B | C | D | E | H | G |
| For use with Type C Jacksockets & Jackscrews | XMRA 34-0800 | 2.09 | .84 | 1.16 | 2.58 | .64x.75 | 1.06 | 1.688 |
| | XMRA 50-8-0800 | 2.38 | 1.22 | 1.16 | 2.91 | .84 D | 1.34 | 1.969 |
| | XMRA 66-0800 | 2.38 | 1.22 | 1.16 | 2.91 | .84D | 1.34 | 1.969 |
| | XMRA 104-0800 | 2.84 | 1.63 | 2.22 | 3.38 | 1.19D | 1.63 | 2.375 |
| For use with Type D Jacksockets & Jackscrews | XMRA 34-0800D | 2.09 | .84 | 1.17 | 2.58 | .64x.75 | 1.06 | 1.688 |
| | XMRA 50-8-0800D | 2.38 | 1.22 | 1.17 | 2.91 | .84D | 1.34 | 1.969 |
| | XMRA 66-0800D | 2.38 | 1.22 | 1.17 | 2.91 | .84D | 1.34 | 1.969 |
| | XMRA 104-0800D | 2.84 | 1.63 | 2.23 | 3.38 | 1.19D | 2.375 | 1.63 |
| For use with G, K, or N, Type Guides or Type F Jackscrews | XMRA 34-0200 | 2.09 | .84 | 1.16 | 2.58 | .64x.75 | 1.06 | — |
| | XMRA 50-8-0200 | 2.38 | 1.22 | 1.16 | 2.91 | .84D | 1.34 | — |
| | XMRA 66-0200 | 2.38 | 1.22 | 1.16 | 2.91 | .84D | 1.34 | — |
| | XMRA 104-0200 | 2.84 | 1.63 | 2.22 | 3.38 | 1.19D | 1.63 | — |

Dimensions Hoods- Formed Aluminum

| For use with Monojacks | For use with Type C Jacksockets & Jackscrews | For use with G, K, or N, Type Guides * | Dimensions | | | | Cable Opening | | Wt. Oz. |
|------------------------|--|--|------------|------|------|------|---------------|--------|---------|
| | | | A | B | C | D | E Dia. | F Dia. | |
| | | XMRE 9-0500 | 1 | 1.31 | 1.31 | .44 | .31 | — | 0.3 |
| | XMRE 9-0300X | XMRE 9-0500X | 1 | 1.30 | 1.31 | .44 | .59 | .31 | — |
| | | XMRE 14-0500 | .75 | 1.19 | 1.25 | .5 | .44D | — | 0.3 |
| | XMRE 14-0300X | XMRE 14-0500X | .75 | 1.05 | 1.25 | .5 | .59 | .38 | — |
| | | XMRE 18-0500 | .75 | 1.19 | 1.31 | .63 | .44D | — | 0.4 |
| | XMRE 18-0300X | XMRE 18-0500X | .75 | 1.25 | 1.31 | .63 | .63 | .44 | — |
| | | XMRE 20-0500 | .75 | 1.19 | 1.56 | .5 | .44D | — | 0.3 |
| | XMRE 20-0300X | XMRE 20-0500X | .75 | 1.05 | 1.56 | .5 | .66 | .38 | — |
| | XMRE 26-0300 | XMRE 26-0500 | 1.28 | 1.72 | 1.63 | .64 | .59 | .38 | 0.4 |
| | XMRE 26-0300X | XMRE 26-0500X | 1.28 | 1.78 | 1.63 | .64 | .78 | .44 | — |
| XMRE 34-0300D | XMRE 34-0300 | XMRE 34-0500 | 1.25 | 1.67 | 2 | .83 | .66D | — | 0.6 |
| XMRE 34-0300XD | XMRE 34-0300X | XMRE 34-0500X | 1.25 | 1.75 | 2.00 | .83 | 1.06 | .56 | — |
| XMRE 42-0300D | XMRE 42-0300 | XMRE 42-0500 | 1.30 | 1.73 | 2.31 | .83 | .63D | — | 0.7 |
| XMRE 42-0300XD | XMRE 42-0300X | XMRE 42-0500X | 1.30 | 1.80 | 2.31 | .83 | 1.06 | .56 | — |
| XMRE 50-0300D | XMRE 50-0300 | XMRE 50-0500 | 1.30 | 1.80 | 2.59 | .83 | .63D | — | 0.8 |
| XMRE 50-0300XD | XMRE 50-0300X | XMRE 50-0500X | 1.30 | 1.80 | 2.59 | .83 | 1.06 | .28 | — |
| XMRE 75-0300D | XMRE 75-0300 | XMRE 75-0500 | 1.31 | 1.75 | 2.59 | 1.19 | .63 | .88 | 1.0 |
| XMRE 75-0300XD | XMRE 75-0300X | XMRE 75-0500X | 1.31 | 1.86 | 2.59 | 1.19 | 1 | .88 | — |

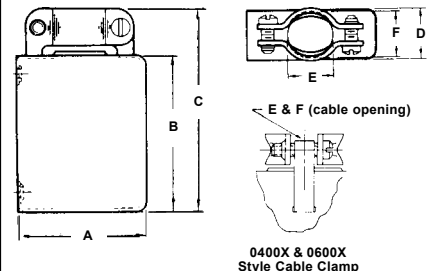
Top Cable Opening



| For use with Monojacks | For use with Type C Jacksockets & Jackscrews | For use with G, K, or N, Type Guides * | Dimensions | | | | Cable Opening | | Wt. Oz. |
|------------------------|--|--|------------|------|------|------|---------------|--------|---------|
| | | | A | B | C | D | E Dia. | F Dia. | |
| | XMRE 9-0400 | XMRE 9-0600 | 1.28 | 1.31 | 1.63 | .44 | .31D | — | 0.3 |
| | XMRE 9-0400X | XMRE 9-0600X | 1.28 | 1.31 | 1.61 | .44 | .59 | .31 | — |
| | XMRE 14-0400 | XMRE 14-0600 | 1.28 | 1.25 | 1.69 | .5 | .38D | — | 0.3 |
| | XMRE 14-0400X | XMRE 14-0600X | 1.28 | 1.25 | 1.55 | .5 | .59 | .38 | — |
| | XMRE 18-0400 | XMRE 18-0600 | 1.28 | 1.31 | 1.75 | .63 | .44D | — | 0.3 |
| | XMRE 18-0400X | XMRE 18-0600X | 1.28 | 1.31 | 1.81 | .63 | .69 | .44 | — |
| | XMRE 20-0400 | XMRE 20-0600 | 1.28 | 1.56 | 2 | .5 | .38D | — | 0.3 |
| | XMRE 20-0400X | XMRE 20-0600X | 1.28 | 1.56 | 1.86 | .5 | .66 | .38 | — |
| | XMRE 26-0400 | XMRE 26-0600 | 1.28 | 1.63 | 2.06 | .64 | .59 | .38 | 0.4 |
| | XMRE 26-0400X | XMRE 26-0600X | 1.28 | 1.63 | 2.13 | .64 | .78 | .44 | — |
| XMRE 34-0400D | XMRE 34-0400 | XMRE 34-0600 | 1.25 | 2 | 2.42 | .83 | .66 | — | 0.6 |
| XMRE 34-0400XD | XMRE 34-0400X | XMRE 34-0600X | 1.25 | 2 | 2.5 | .83 | .81 | .56 | — |
| XMRE 42-0400D | XMRE 42-0400 | XMRE 42-0600 | 1.30 | 2.31 | 2.73 | .83 | .63 | .5 | 0.7 |
| XMRE 42-0400XD | XMRE 42-0400X | XMRE 42-0600X | 1.30 | 2.31 | 2.81 | .83 | .84 | .56 | — |
| XMRE 50-0400D | XMRE 50-0400 | XMRE 50-0600 | 1.30 | 2.59 | 3.02 | .83 | .63 | .5 | 0.8 |
| XMRE 50-0400XD | XMRE 50-0400X | XMRE 50-0600X | 1.30 | 2.59 | 3.09 | .83 | 1.06 | .56 | — |
| XMRE 75-0400D | XMRE 75-0400 | XMRE 75-0600 | 1.31 | 2.59 | 3.02 | 1.19 | .63 | .88 | 1.0 |
| XMRE 75-0400XD | XMRE 75-0400X | XMRE 75-0600X | 1.31 | 2.59 | 3.14 | 1.19 | 1 | .88 | — |

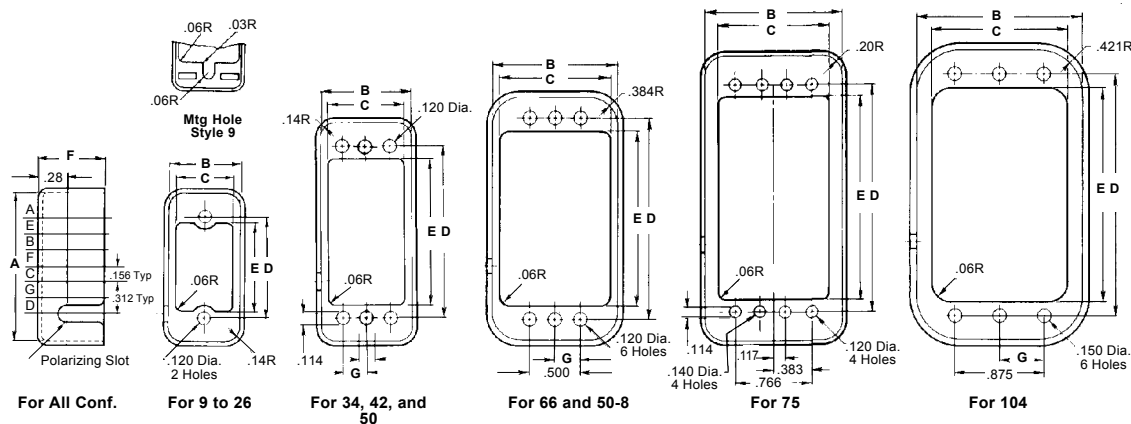
* Add "J" to hood P/N when used with "F" jackscrews.

Side Cable Opening



Outline Shells – Receptacle

Dimensions are for reference only and are subject to change. Outline drawings on request.



Dimensions Shells – Receptacle

Important Note When Ordering Plug and Receptacle Shells

The shell part numbers given in table show an asterisk (*) where the code letter for the desired polarizing position belongs - example: XMRE9-2*000 becomes XMRE9-2B000 when polarization in position "B" is desired. Specify the same position on the mating shell.

For non-polarized shells, merely omit this position, e.g. XMRE9-2000.

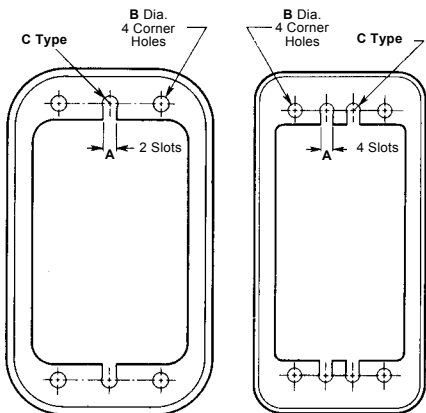
TYPICAL SHELLS FOR MONOJACKS

Shells are aluminum, anodized for protection against corrosion. Either shell style - plug or receptacle - may be used to house the female insert, thus allowing the "live" socket contacts to be cable or panel mounted, as desired. Shells also provide a means by which connector polarization is accomplished - the receptacle shell is slotted for engaging a polarizing pin on the plug shell. Any of seven positions (A, B, C, D, E, F, or G) may be specified for polarization; non-polarized shells have the slot and pin omitted.

Stainless steel shells available for 66 and 104 sizes. Dimensions vary from those shown for aluminum shells, Check Sales for availability and dimensions on all sizes.

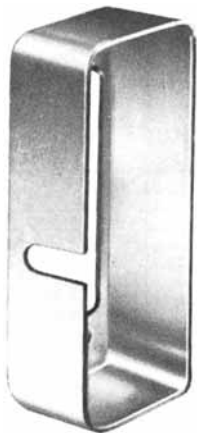
| For Connector Size | A | B | C |
|--------------------------|-----|------|------|
| 34, 42, 50, 50-8, 66, 75 | .11 | .120 | .06R |
| 104 | .14 | .150 | .07R |

| Shell Part No. (if ordered separately) | Dimensions | | | | | | | Wt. Oz. |
|---|------------|------|------|-------|------|-----|------|------------|
| | A | B | C | D | E | F | G | |
| XMRE 9-2*000 | 1.45 | .52 | .38 | 1.000 | .88 | .66 | — | 0.15 |
| XMRE 14-2*000 | 1.39 | .58 | .45 | .937 | .81 | .66 | — | 0.16 |
| XMRE 18-2*000 | 1.45 | .70 | .58 | 1.000 | .88 | .66 | — | 0.17 |
| XMRE 20-2*000 | 1.70 | .58 | .45 | 1.250 | 1.13 | .66 | — | 0.19 |
| XMRE 26-2*000 | 1.77 | .70 | .58 | 1.312 | 1.19 | .66 | — | 0.23 |
| XMRE 34-2*000 | 2.14 | .89 | .75 | 1.687 | 1.44 | .66 | .234 | 0.25 |
| XMRE 42-2*000 | 2.45 | .89 | .75 | 2.000 | 1.75 | .66 | .234 | 0.28 |
| XMRE 50-2*000 | 2.86 | 1.02 | .75 | 2.282 | 2.03 | .66 | .234 | 0.30 |
| XMRE 50-4*000 | 2.86 | 1.02 | .75 | 2.282 | 2.03 | .66 | .234 | 0.30 |
| XMRA 66-2*000 | | | | | | | | |
| XMRA 66-4*000 | | | | | | | | |
| XMRA 50-8-2*000 | | | | | | | | |
| XMRA 50-8-4*000 | 2.42 | 1.27 | 1.13 | 1.969 | 1.72 | .66 | .250 | 0.28 |
| XMRE 75-2*000 | 2.86 | 1.38 | 1.11 | 2.282 | 2.03 | .66 | — | 0.32 |
| XMRE 75-4*000 | 2.86 | 1.38 | 1.11 | 2.282 | 2.03 | .66 | — | 0.32 |
| XMRA 104-2*000 | 2.91 | 1.69 | 1.48 | 2.375 | 2.13 | .66 | .437 | 0.30 |
| XMRA 104-4*000 | 2.91 | 1.69 | 1.48 | 2.375 | 2.13 | .66 | .437 | 0.30 |



For 34, 42, 50, 50-8, 66 and 104 Configuration

For 75 Configuration



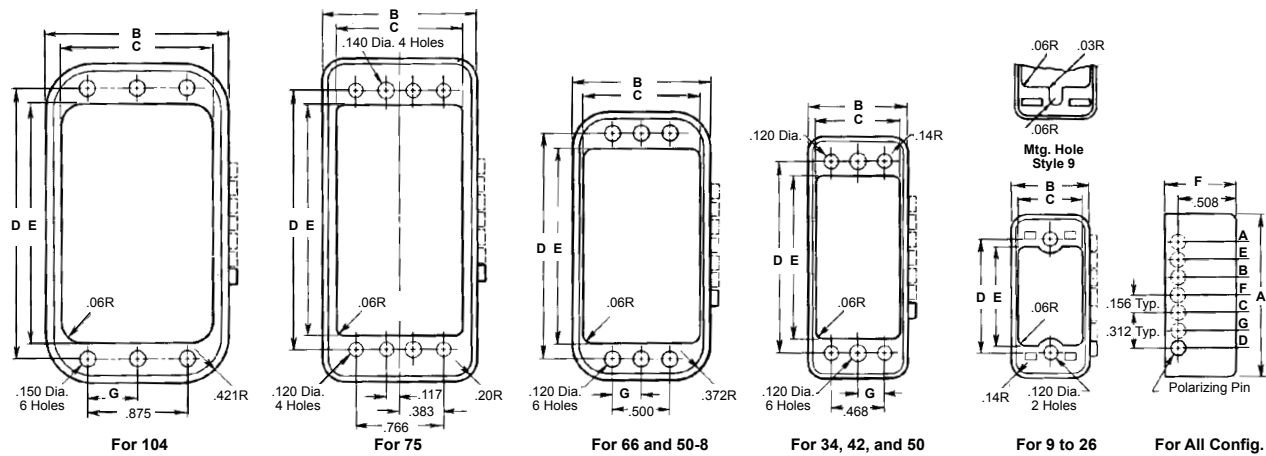
Receptacle Shell Style Number 2000

Shells are .040 in. thick.

XMRA & XMRE Series

Outline Shells – Plug

Dimensions are for reference only and are subject to change. Outline drawings on request.

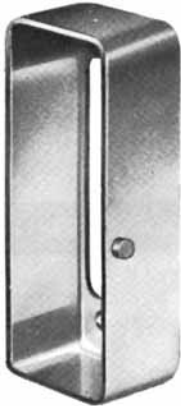
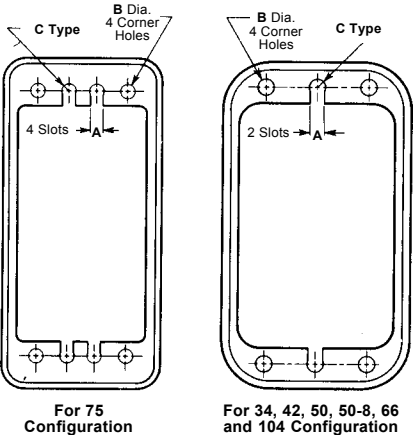


Dimensions

| Shell Part No. (if ordered separately) | Dimensions | | | | | | | Wt. Oz. |
|--|------------|------|------|-------|------|-----|------|------------|
| | A | B | C | D | E | F | G | |
| XMRE 9-1*000 | 1.44 | .5 | .38 | 1.000 | .88 | .63 | — | 0.14 |
| XMRE 14-1*000 | 1.38 | .56 | .45 | .937 | .81 | .63 | — | 0.15 |
| XMRE 18-1*000 | 1.44 | .69 | .58 | 1.000 | .88 | .63 | — | 0.16 |
| XMRE 20-1*000 | 1.69 | .56 | .45 | 1.250 | 1.13 | .63 | — | 0.18 |
| XMRE 26-1*000 | 1.75 | .69 | .58 | 1.312 | 1.19 | .63 | — | 0.22 |
| XMRE 34-1*000 | | | | | | | | |
| XMRE 34-3*000 | 2.13 | .88 | .75 | 1.687 | 1.44 | .66 | .234 | 0.24 |
| XMRE 42-1*000 | | | | | | | | |
| XMRE 42-3*000 | 2.44 | .88 | .75 | 2.000 | 1.75 | .66 | .234 | 0.26 |
| XMRE 50-1*000 | | | | | | | | |
| XMRE 50-3*000 | 2.84 | 1 | .75 | 2.282 | 2.03 | .66 | .234 | 0.28 |
| XMRA 66-1*000 | | | | | | | | |
| XMRA 66-3*000 | 2.41 | 1.25 | 1.13 | 1.969 | 1.72 | .66 | .250 | 0.28 |
| XMRA 50-8-1*000 | | | | | | | | |
| XMRA 50-8-3*000 | | | | | | | | |
| XMRE 75-1*000 | | | | | | | | |
| XMRE 75-3*000 | 2.84 | 1.36 | 1.11 | 2.282 | 2.03 | .66 | — | 0.30 |
| XMRA 104-1*000 | | | | | | | | |
| XMRA 104-3*000 | 2.88 | 1.66 | 1.48 | 2.375 | 2.13 | .66 | .437 | 0.30 |

Typical Shells For Monojacks

| For Connector Size | A | B | C |
|--------------------------|-----|------|------|
| 34, 42, 50, 50-8, 66, 75 | .11 | .120 | .06R |
| 104 | .14 | .150 | .07R |



Plug Shell
Style Number 1000

Shells are .040 in. thick.

XMRA & XMRE Series

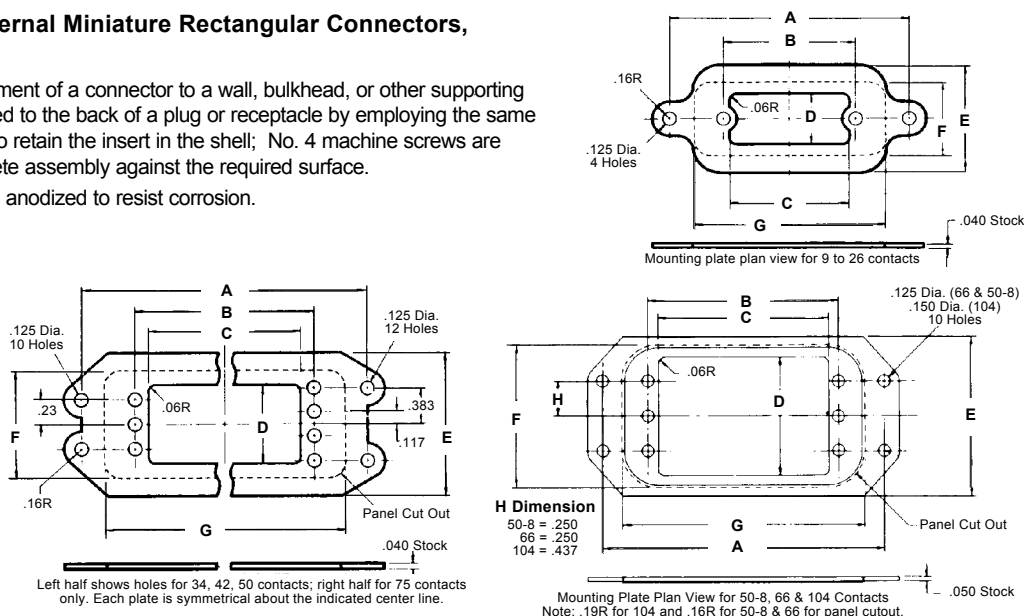
Outline Mounting Plates

Dimensions are for reference only and are subject to change. Outline drawings on request.

Mounting Plates for External Miniature Rectangular Connectors, Potting Forms

Mounting Plates enable attachment of a connector to a wall, bulkhead, or other supporting surface. The plate is assembled to the back of a plug or receptacle by employing the same hardware and/or guides used to retain the insert in the shell; No. 4 machine screws are then used to mount the complete assembly against the required surface.

Mounting plates are aluminum, anodized to resist corrosion.



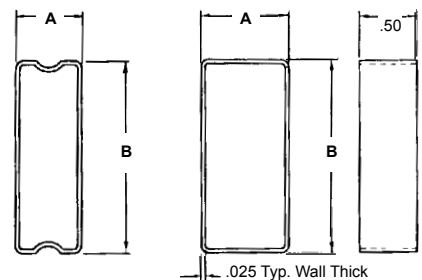
Dimensions

| Mounting Plate Part No. (If Ordered Separately) | Dimensions | | | | | | | Panel Cutout | Wt. Oz. |
|---|------------|-------|------|------|------|------|------|--------------|---------|
| | A | B | C | D | E | F | G | | |
| XMRE 9-0010 | 2.02 | 1.000 | .88 | .41 | .95 | .64 | 1.58 | 0.09 | |
| XMRE 14-0010 | 1.95 | .937 | .81 | .47 | 1.02 | .70 | 1.52 | 0.10 | |
| XMRE 18-0010 | 2.02 | 1.000 | .88 | .59 | 1.14 | .83 | 1.58 | 0.11 | |
| XMRE 20-0010 | 2.27 | 1.250 | 1.13 | .47 | 1.02 | .70 | 1.83 | 0.12 | |
| XMRE 26-0010 | 2.33 | 1.312 | 1.19 | .59 | 1.14 | .83 | 1.89 | 0.14 | |
| XMRE 34-0010 | 2.70 | 1.687 | 1.44 | .75 | 1.33 | 1.02 | 2.27 | 0.15 | |
| XMRE 42-0010 | 3.02 | 2.000 | 1.75 | .75 | 1.33 | 1.02 | 2.58 | 0.16 | |
| XMRE 50-0010 | 3.42 | 2.281 | 2.03 | .75 | 1.45 | 1.14 | 2.98 | 0.18 | |
| XMRE 75-0010 | 3.42 | 2.281 | 2.03 | 1.11 | 1.80 | 1.48 | 2.98 | 0.19 | |
| XMRA 50-8-0010 | 2.98 | 1.969 | 1.72 | 1.13 | 1.69 | 1.39 | 2.55 | 0.18 | |
| XMRA 66-0010 | | | | | | | | | |
| XMRA 104-0010 | 3.5 | 2.375 | 2.13 | 1.48 | 2.0 | 1.81 | 3.03 | 0.19 | |

Outline Potting Forms

Potting Forms for External Miniature Rectangular Connectors

Nylon Potting Forms: Each form matches the back opening contour of its appropriate shell. Stays easily in place during the potting operation. Of negligible weight, the form need not be removed from the connector after potting. XMRE and XMRA connector-halves should always be engaged during the potting operation to preserve the contact alignment.



Potting form plan view for 9 to 26 contacts

Potting form plan view for 34, 42, 50, 50-8, 66, and 104 contacts

Dimensions

| Potting Form Part No. (If Ordered Separately) | Dimensions | |
|---|------------|------|
| | A | B |
| XMRE 9-0100 | .38 | .86 |
| XMRE 14-0100 | .45 | .81 |
| XMRE 18-0100 | .56 | .86 |
| XMRE 20-0100 | .44 | 1.11 |
| XMRE 26-0100 | .56 | 1.17 |
| XMRE 34-0100 | .75 | 1.39 |
| XMRE 42-0100 | .75 | 1.69 |
| XMRE 50-0100 | .75 | 1.98 |
| XMRE 75-0100 | 1.11 | 1.98 |

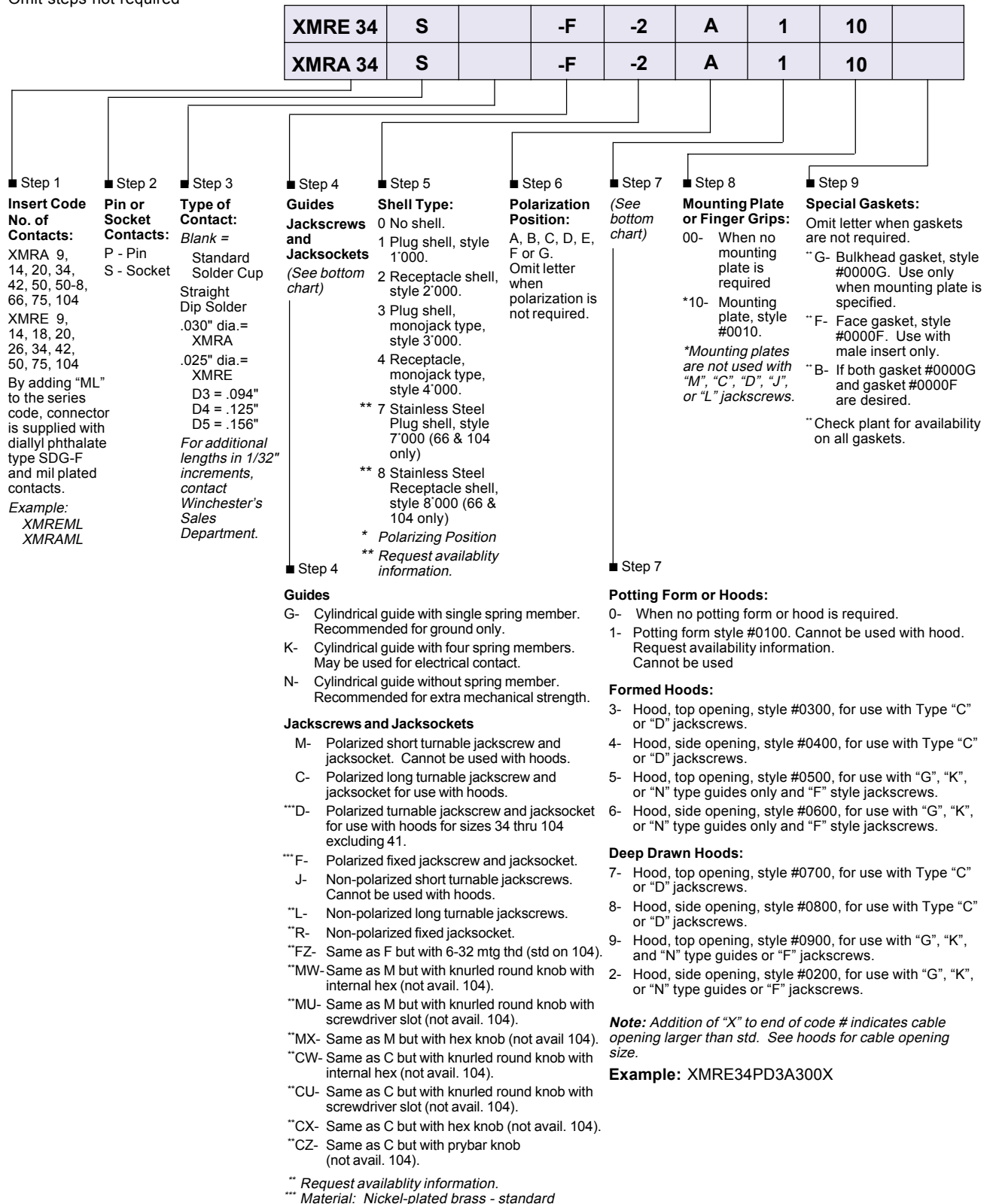
| Potting Form Part No. (If Ordered Separately) | Dimensions | |
|---|------------|------|
| | A | B |
| XMRA 9-0100 | .38 | .86 |
| XMRA 14-0100 | .45 | 1.11 |
| *XMRA 20-0100 | .44 | 1.11 |
| XMRA 34-0100 | .75 | 1.39 |
| XMRA 42-0100 | .75 | 1.69 |
| XMRA 50-0100 | .75 | 2.03 |
| XMRA 50-8-0100 | 1.13 | 1.72 |
| XMRA 66-0100 | 1.13 | 1.72 |
| XMRA 75-0100 | 1.11 | 2.03 |
| XMRA 104-0100 | 1.48 | 2.08 |

*Stepped construction not shown or dimensioned. Cut-outs to clear XMRA barriers not shown.

XMRA & XMRE Series

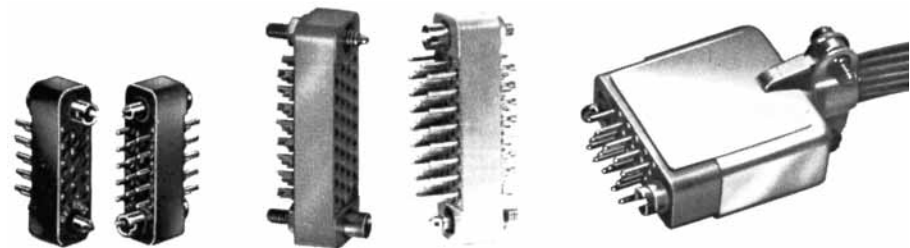
Ordering Information

Omit steps not required



SLE-SME-SRE Series

Sub Miniature / High Density Rectangular / .025" Dia. / 3 Amps .030" Dia. / 5 Amps / .040" Dia. / 7.5 Amps



SLE
.025 Diameter Contacts — 3 Amps.

SRE
.030 Diameter Contacts — 5 Amps

SME
.040 Diameter Contacts — 7.5 Amps

Within this series, you'll find a standard size connector for which you can select one of three current ratings: 3, 5 or 7.5 amps. Compact and lightweight, they are especially

suited for aircraft, instrumentation and portable equipment applications. Right angle, dip solder, pin or socket contacts are available. Consult factory.

Specifications

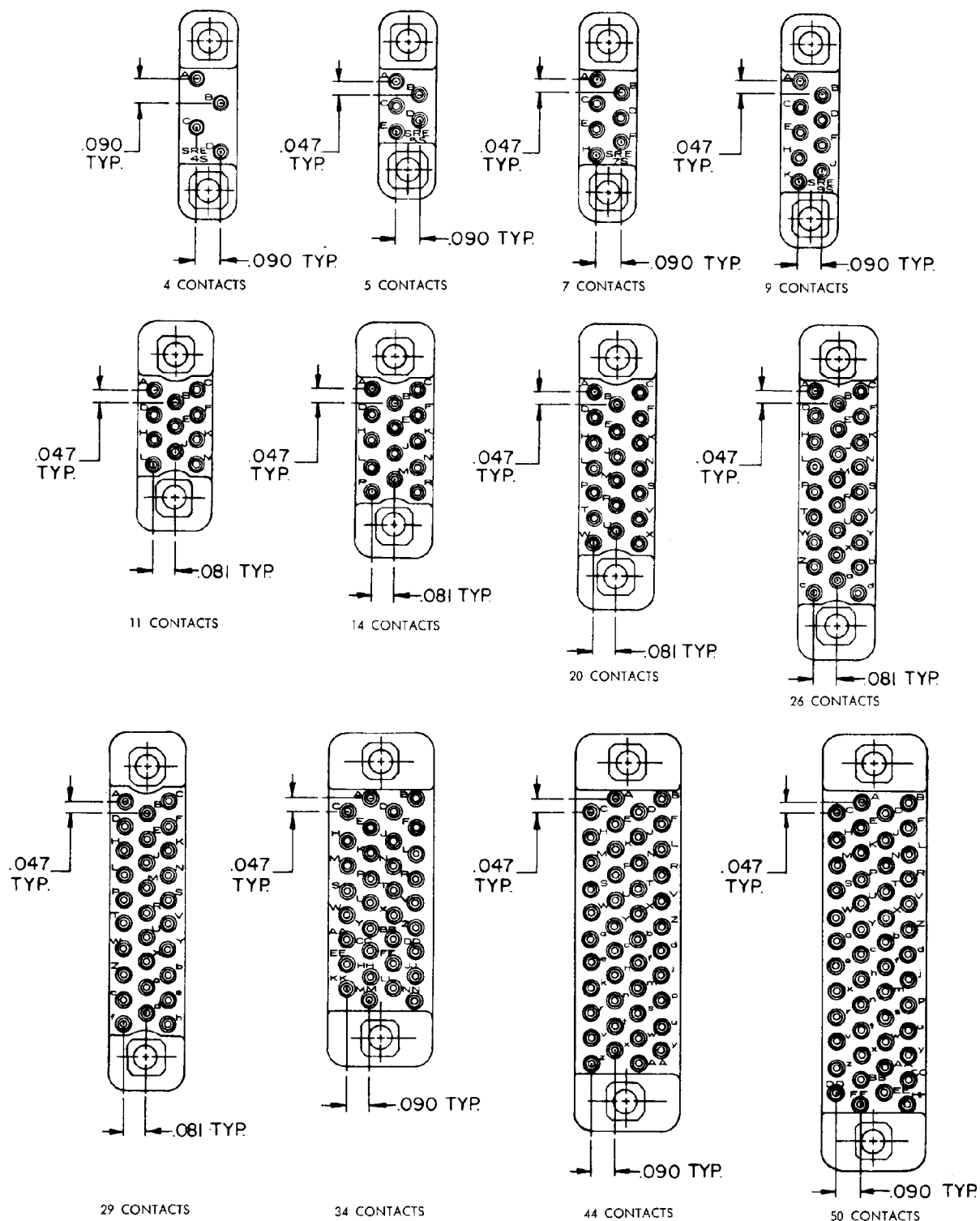
| | | | |
|---------------------------|--|--------------------|---|
| Current Rating: | SLE - 3 amps; SRE - 5 amps; SME - 7.5 amps. | Dielectric: | electrification at 1000 VAC. Green glass-filled diallyl phthalate per MIL-M-14, SDG-F. |
| No. of Contacts: | 4, 5, 7, 9, 11, 14, 20, 26, 29, 34, 44, 50. | Guides: | Type NSS stainless steel, passivated or Type N Brass, gold plated. |
| Pin Contacts: | Brass, gold plated except for SLE which is phosphor bronze, gold plated. | Jackscrews: | Stainless steel, passivated. Aluminum knobs on the jackscrews are equipped with set screws, except JTU jackscrews which have stainless steel knobs equipped with groove pins. |
| Socket Contacts: | Phosphor bronze, gold plated. | Hoods: | Anodized aluminum. May be applied to either plug or receptacle. Both top and side openings are available for use with either guides or jackscrews. |
| Termination Types: | .037 diameter solder cup will accept up to #22 AWG stranded wire. Solder cup adaptor (Part No. S45) will accept up to #20 AWG stranded wire. Dip solder terminations available for SRE Series, .030 Dia. Check Sales Department for available lengths. Military versions of SRE are QPL'd to M28748/7 and M28748/8. | | |
| Electrical Data: | The dielectric withstanding voltage is one minute | | |

SLE-SME-SRE Series

Contact Arrangement

Mating Face of Female Moldings - Male Moldings Reverse Image

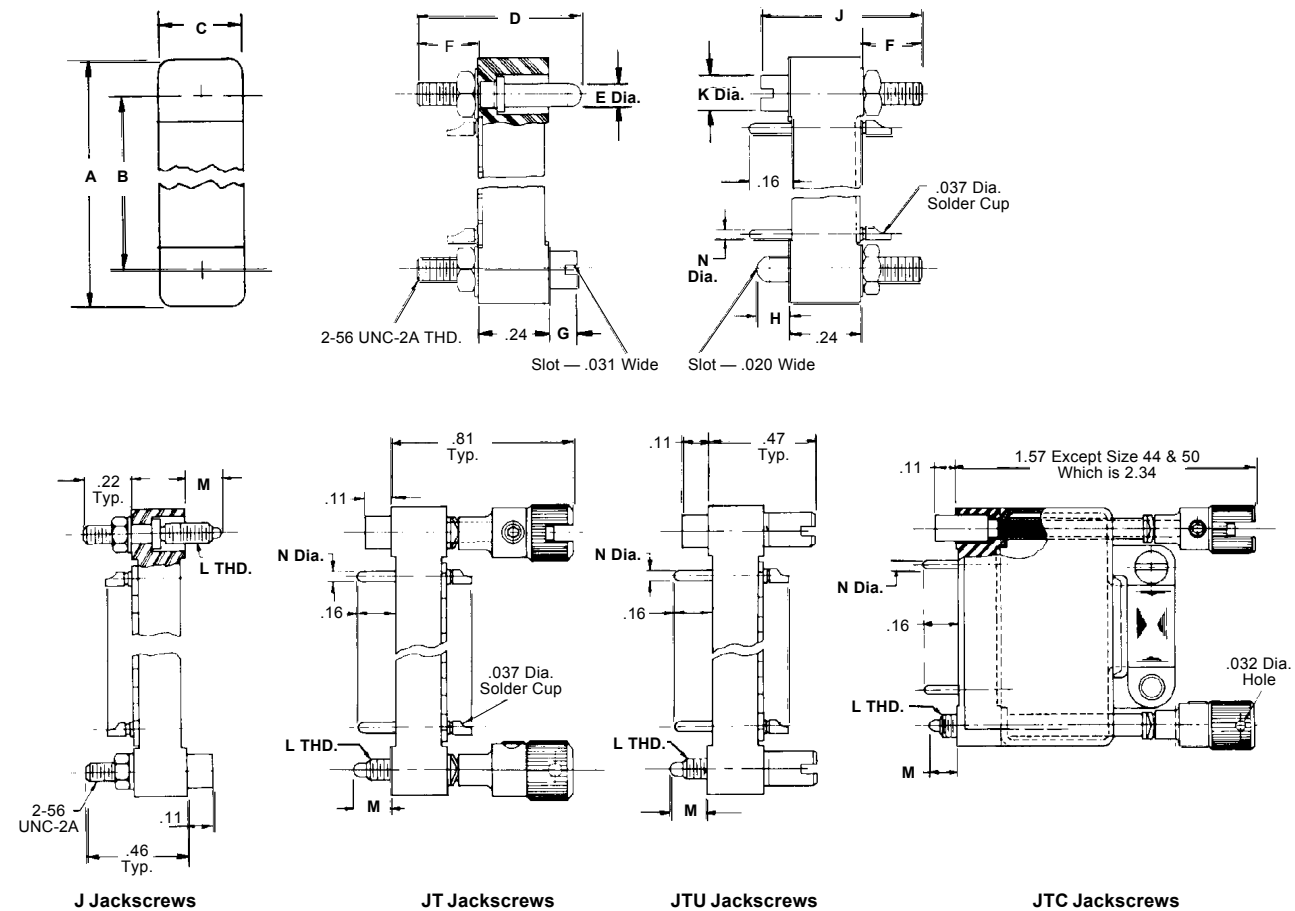
Dimensions are for reference only and are subject to change. Outline drawings on request.



SLE-SME-SRE Series

Outline

Dimensions are for reference only and are subject to change. Outline drawings on request.



Dimensions

The stainless steel guide pin and socket have good physical strength and are particularly desirable for mounting connectors which will be

subject to severe vibration in service, but not for electrical applications. Optional gold plated brass available for electrical applications.

| No. of Contacts | A | B | C |
|-----------------|------|-------|-----|
| 4 | .78 | .562 | .21 |
| 5 | .70 | .482 | .21 |
| 7 | .78 | .562 | .21 |
| 9 | .88 | .656 | .21 |
| 11 | .78 | .531 | .28 |
| 14 | .88 | .625 | .28 |
| 20 | 1.06 | .814 | .28 |
| 26 | 1.25 | 1.000 | .28 |
| 29 | 1.34 | 1.094 | .28 |
| 34 | 1.25 | 1.032 | .39 |
| 44 | 1.48 | 1.267 | .39 |
| 50 | 1.63 | 1.408 | .39 |

| Series | D | E Dia | F | G | H | J | K | L Thd | M | N |
|--------|-----|-------|-----|-----|-----|-----|------|-----------|-----|------|
| SLE | .62 | .08 | .24 | .10 | .14 | .59 | .125 | 2-56 UNC | .15 | .025 |
| SRE | .57 | .09 | .22 | .11 | .12 | .57 | .137 | 3-48 UNC* | .12 | .030 |
| SME | .62 | .08 | .24 | .10 | .14 | .59 | .125 | 2-56 UNC | .15 | .040 |

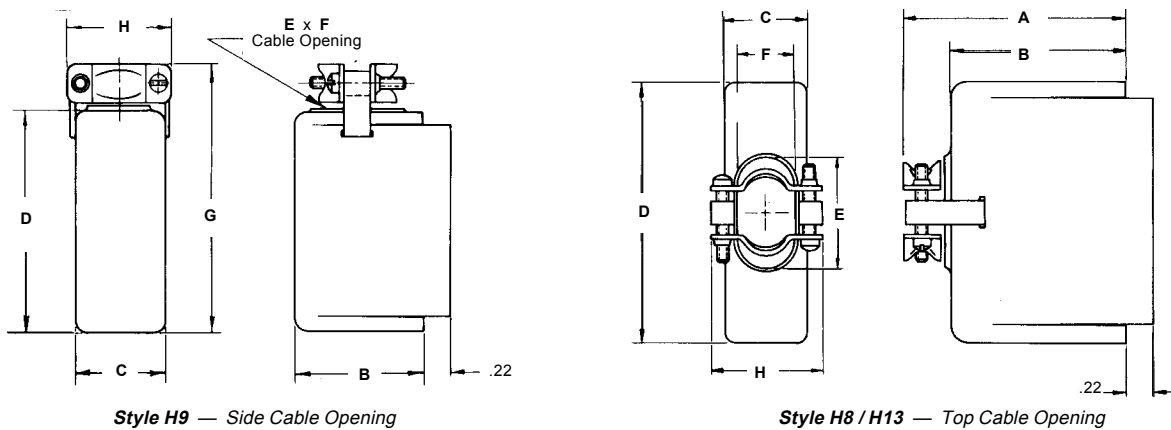
*2-56 UNC Thread also available.
See ordering information for part number suffix.

SLE-SME-SRE Series

Outline

Hoods Formed Aluminum

Dimensions are for reference only and are subject to change. Outline drawings on request.

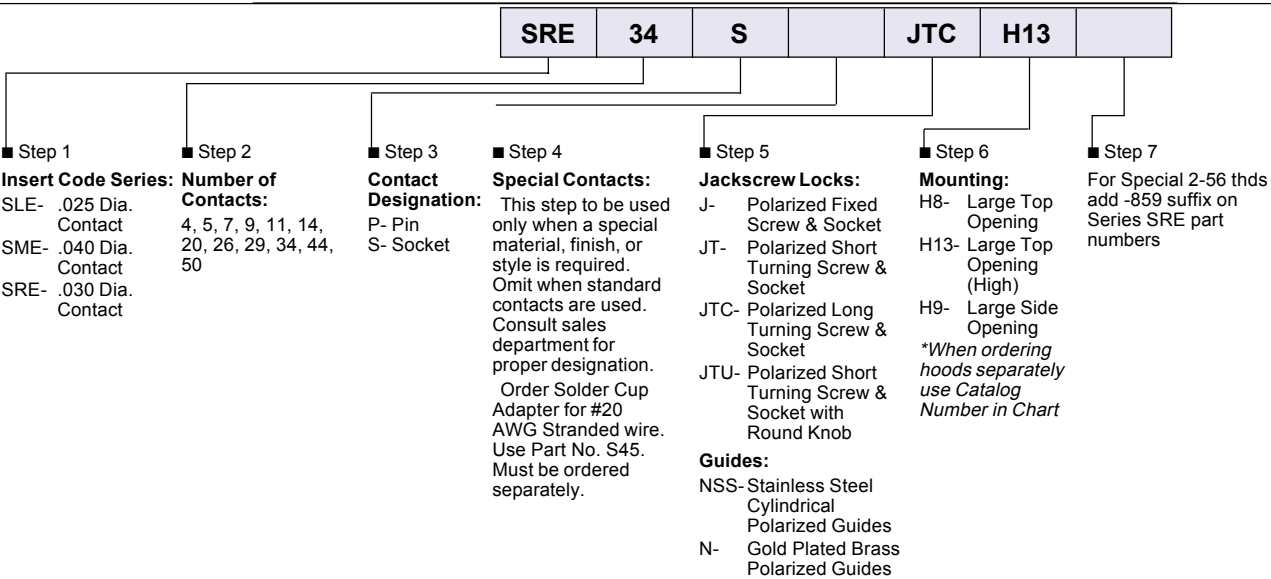


Dimensions

| Hood Style | Hood Catalog Number Guides Only* | Dimensions | | | | | | Cable Opening | | No. of Con-acts |
|---------------|----------------------------------|------------|------|-----|------|------|-----|---------------|-----|-----------------|
| | | A | B | C | D | G | H | E | F | |
| H8 | SRE11H8 | 1.02 | .72 | .33 | .78 | — | .53 | .28 | .28 | 11 |
| H8 | SRE50H8 | 1.80 | 1.50 | .45 | 1.63 | — | .63 | 1.19 | .38 | 50 |
| H9 | SRE11H9 | — | .72 | .33 | .78 | 1.08 | .53 | .50 | .22 | 11 |
| H9 | SRE50H9 | — | 1.50 | .45 | 1.63 | 1.92 | .63 | 1.19 | .38 | 50 |
| H13 | SRE4&7H13 | 1.02 | .75 | .25 | .78 | — | .53 | .22 | .16 | 4 & 7 |
| H13 | SRE14H13 | 1.02 | .75 | .34 | .88 | — | .53 | .25 | .16 | 14 |
| H13 | SRE20H13 | 1.02 | .75 | .34 | 1.06 | — | .53 | .38 | .25 | 20 |
| H13 | SRE26H13 | 1.02 | .75 | .34 | 1.25 | — | .53 | .41 | .25 | 26 |
| H13 | SRE34H13 | 1.05 | .75 | .45 | 1.25 | — | .63 | .73 | .38 | 34 |
| NOT AVAILABLE | | | | | | | | | | 5 |
| | | | | | | | | | | 9 |
| H13 | SRE29H13 | 1.02 | .75 | .34 | 1.34 | — | .53 | .41 | .25 | 29 |
| NOT AVAILABLE | | | | | | | | | | 44 |

* Add "J" to hood part number when used with fixed jackscrews
Add "JTC" to hood part number when used with long turning jackscrews.

Ordering Infomation

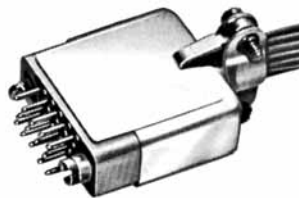


SREC Series

Sub Miniature Rectangular, Removable Contacts



SREC 14SN



SREC 14PNH13



Tool 107-1012

The SREC series is the first family of subminiature crimp contact rack and panel connectors. While retaining all of the important features of true connector miniaturization, the SREC offers .030 diameter crimp (4 indents) type removable contacts with .094

center to center spacing. Contacts are precision machined to assure solid pin and socket reliability. Compact and light in weight, the SREC Series is especially suitable for aircraft, instrumentation, computer and portable equipment applications.

Specifications

Current Rating: 5 amps

No. of Contacts: 7, 11, 14, 18, 20, 26, 34, 44, 50

Pin Contacts: .030 dia. 4 indent crimp. Lead plated commercial bronze, gold plated.

Socket Contacts: Phosphor bronze, gold plated.

Termination Types: Crimp or .025 sq. wire wrap. Crimp contacts will accommodate #20-#28 AWG stranded wire.

Dielectric: Glass-filled diallyl phthalate per MIL-M-14, SDG-F.

Electrical Data: The dielectric withstanding voltage is one minute electrification at 1400 VAC.

Jackscrews: Long and short turning, passivated stainless steel. Anodized aluminum knurled knobs equipped with set screws for long turning jackscrews. Stainless steel knobs with groove pins for short turning jackscrews.

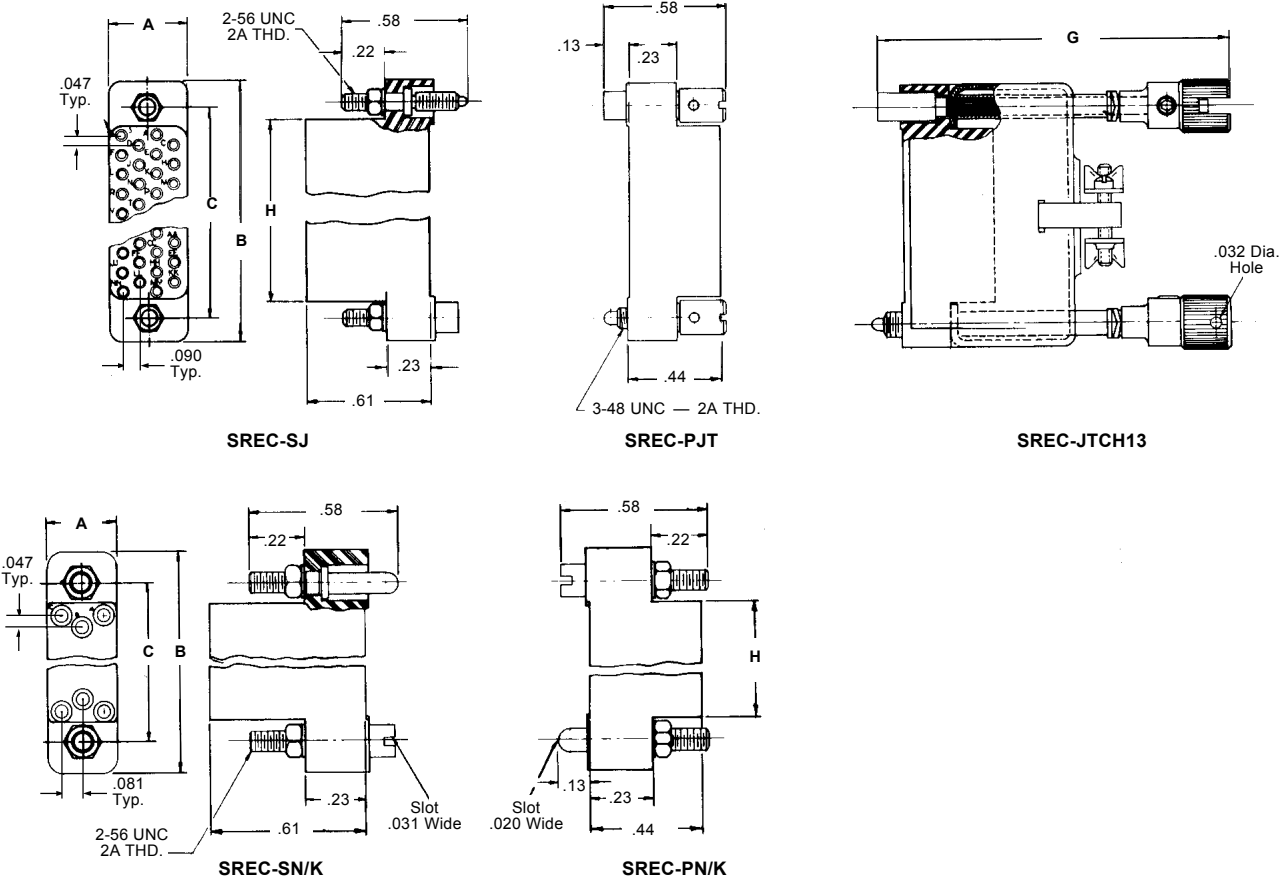
Guides: Type N is standard - brass for extra mechanical strength. Type K - beryllium copper for high electrical conductivity. Type NSS - stainless steel

Hoods: Top opening hoods are available in all sizes. Side opening available for SREC 50 only.

SREC Series

Outline

Dimensions are for reference only and are subject to change. Outline drawings on request.



Dimensions

| DIMENSION CHART | | | | | |
|-----------------|-----|------|-------|------|------|
| No. of Contacts | A | B | C | G | H |
| 7 | .20 | .78 | .56 | 1.67 | .41 |
| 14 | .28 | .88 | .63 | 1.67 | .50 |
| 20 | .28 | 1.06 | .81 | 1.67 | .69 |
| 26 | .28 | 1.25 | 1.000 | 1.67 | .88 |
| 34 | .39 | 1.25 | 1.03 | 1.67 | .88 |
| 50 | .39 | 1.63 | 1.40 | 2.45 | 1.25 |

SREC 11, 18 and 44 outline drawings on request

Physical Data

| Weight in Ounces (w/o contacts) | | SREC 7 | SREC 14 | SREC 20 | SREC 26 | SREC 34 | SREC 50 |
|---------------------------------|------|-----------|---------|--------------|---------|--------------|---------|
| | Plug | .03 | .05 | .07 | .08 | .12 | .15 |
| | Plug | .04 | .06 | .08 | .09 | .15 | .20 |
| Component Parts | | Guide Pin | | Guide Socket | | L Washer (2) | |
| Weight in Ounces | | .02 | | .02 | | .007 | |
| | | | | | | Nut (2) | |
| | | | | | | .01 | |

Contacts

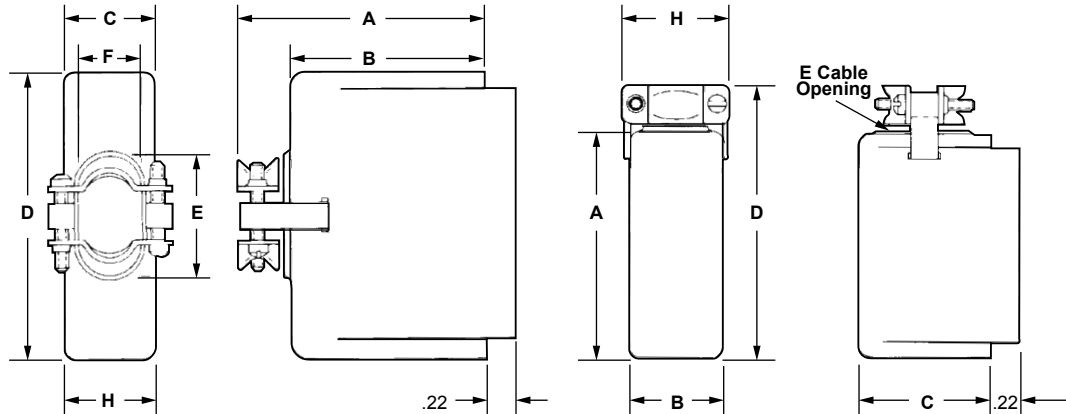
| Part No. | Contact Type | Wire Size (Stranded) | Dimensions | | | | Current Rating |
|-----------|--------------|----------------------|------------|-----|------|------|----------------|
| | | | A | B | C | D | |
| 100-4024P | P (Male) | 24-26-28 | — | .56 | .028 | .055 | 5 Amp |
| 100-4024S | S (Female) | 24-26-28 | .55 | — | .028 | .055 | |
| 100-4020P | P (Male) | 20-22 | — | .50 | .046 | — | |
| 100-4020S | S (Female) | 20-22 | .48 | — | .046 | — | |

Polarizing Pin: Brass, Gold Plated, Part No. 109-8565

SREC Series

Outline Formed Aluminum Hoods

Dimensions are for reference only and are subject to change. Outline drawings on request.



Dimensions

SRE/SREC Large Top Opening Hoods

| Code No.* | Dimensions | | | | Cable Opening | | H | Fits Connector |
|-----------|------------|------|-----|------|---------------|-----|-----|---------------------------|
| | A | B | C | D | E | F | | |
| SRE7H13 | 1.02 | .75 | .25 | .78 | .22 | .16 | .53 | SRE 7 P/S SREC 7 P/S |
| SRE14H13 | 1.02 | .75 | .34 | .88 | .38 | .25 | .53 | SRE 14 P/S SREC 14 P/S |
| SRE20H13 | 1.02 | .75 | .34 | 1.06 | .38 | .25 | .53 | SRE 20 P/S SREC 20 P/S |
| SRE26H13 | 1.02 | .75 | .34 | 1.25 | .41 | .25 | .53 | SRE 26 P/S SREC 26 P/S |
| SRE34H13 | 1.05 | .75 | .45 | 1.25 | .73 | .38 | .63 | SRE 34 P/S SREC 34 P/S |
| SRE50H8 | 1.80 | 1.50 | .45 | 1.63 | 1.19 | .38 | .63 | SRE 50 P/S SREC 50 P/S |

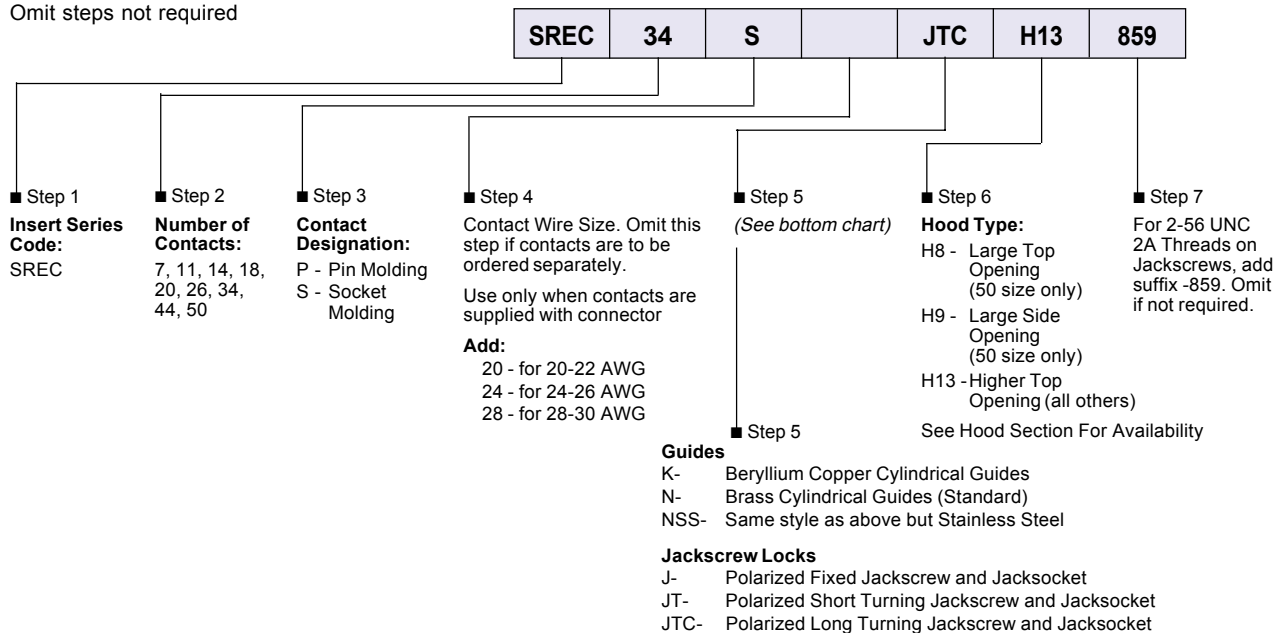
SRE/SREC Large Side Opening Hoods

| Code No.* | A | B | C | D | E | H | Fits Connector |
|-----------|------|-----|------|------|------------|-----|---------------------------|
| SRE50H9 | 1.63 | .45 | 1.50 | 1.92 | 1.19 x .38 | .63 | SRE 50 P/S SREC 50 P/S |

* Code numbers shown are for use with guides.
For use with jackscrews, add J or JTC to hood part number.

Ordering Information

Omit steps not required



42 Series

Panel Mount Miniature 22 AWG – .030" Diameter – 5 Amps



Termination Types

| | | | |
|----------------------|--|-------------------------|--|
| Dip Solder: | .125" or .156" standard lengths with other lengths available on special order. | Solder Cup: | Accommodates up to #22 AWG stranded wire. |
| Grid Spacing: | .100" x .100" grid 50 or 74 contact positions on .100" centers in 3 rows. Two outboard rows for 25 contacts each. Center row either for 24 additional contacts or polarizing pins in specified positions. | Crimp Removable: | Crimp contacts available for #20 through #30 AWG stranded wire. Designed for four indent crimp. See crimp tooling. |

Polarization

| | |
|---|---|
| Available in 50 contact configuration only. Choice of any combination of 24, center positions. Specify polarizing positions required. Positions top to bottom are: A, B, C, | D, E, F, H, J, K, L, M, N, P, R, S, T, U, V, W, X, Y, Z, a.b. When 74 contacts are required no polarization other than hardware polarization is available. |
|---|---|

Specifications

| | |
|---|--|
| Current Rating: 5.0 amps. | Dielectric: Minimum withstanding voltage is one minute electrification at 1200 VAC. |
| Pin Contacts: .030" dia. gold plated brass conforming to specification QQ-B-626. | Polarization: Polarizing pins may be used in any combination in center row. |
| Socket Contacts: Gold plated phosphor bronze. | Jackscrows: Passivated stainless steel, anodized aluminum knobs. |
| Termination Types: Solder cup, dip solder and crimp removable contacts. | Hoods: Anodized aluminum, top opening only. |
| Housing Material: Red diallyl phthalate for Dip Solder and Solder Cup Housings. Green diallyl phthalate for Crimp Removable Housings | |

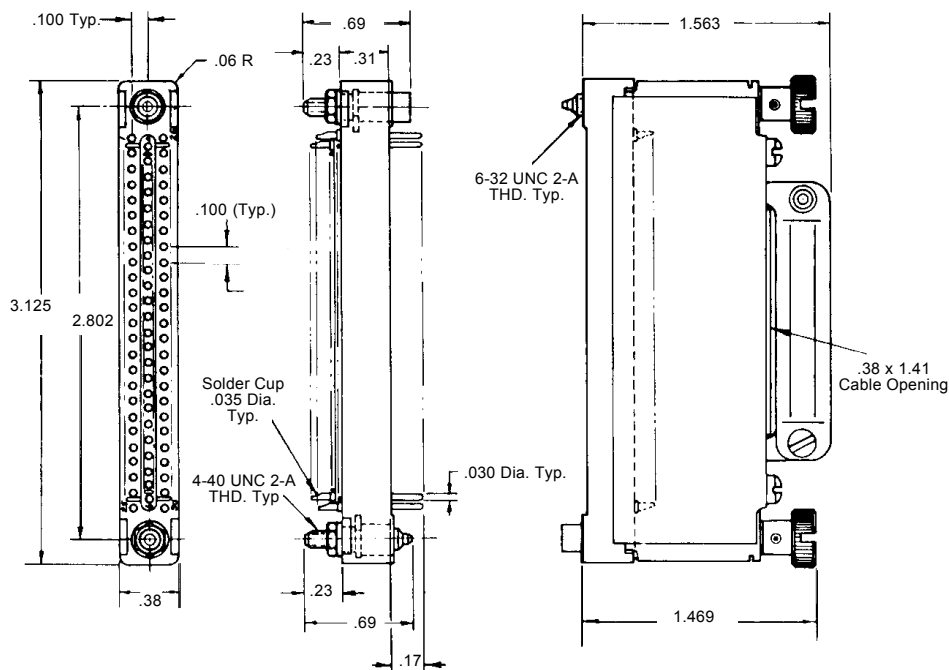
Crimp Tooling

| | |
|--|--|
| Automatic Crimping Machine: Cat. No. 107-0952. | Contact Removal Tool: Cat. No. 107-1012. |
| Hand Crimping Tool: Cat. No. 107-0616. | Contact Insertion Tool: Cat. No. 107-1011. |
| Locator: Cat. No. 107-0617. | |

42 Series

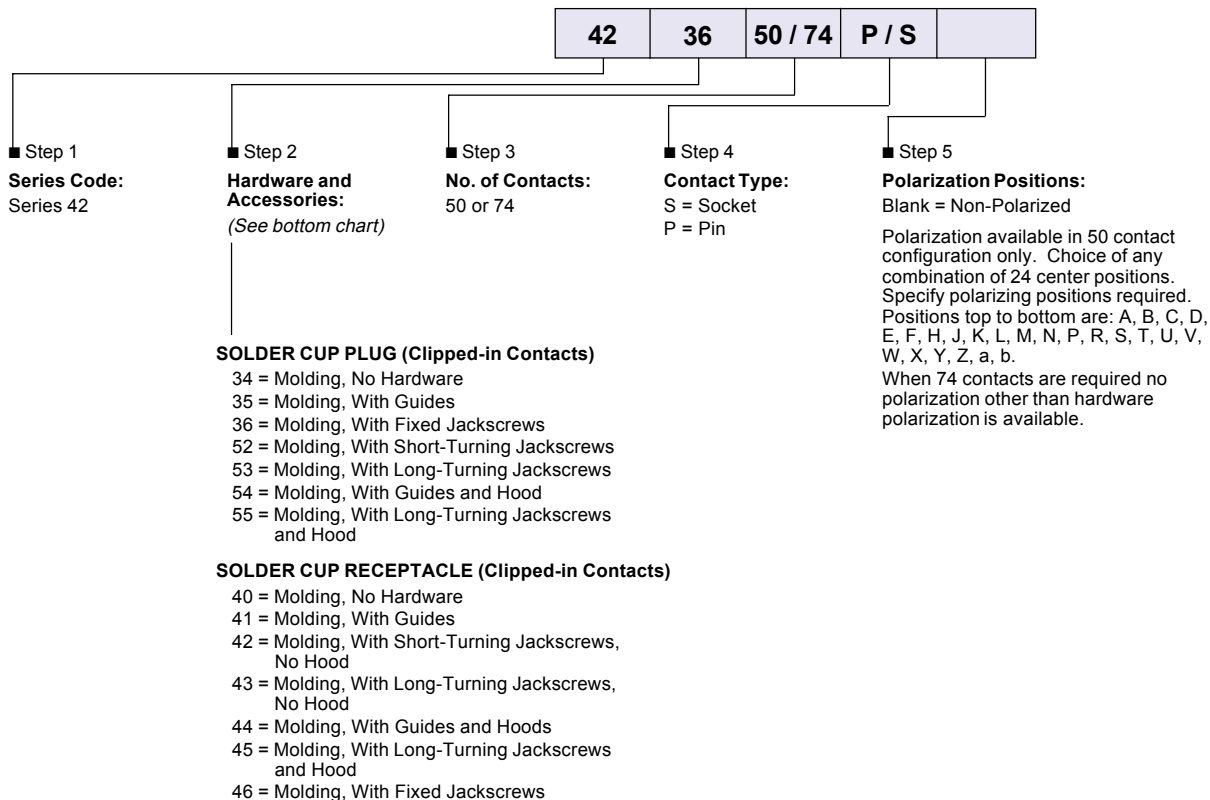
Outline

Dimensions are for reference only and are subject to change. Outline drawings on request.



Solder Cup, Clipped-in Contacts

Ordering Information



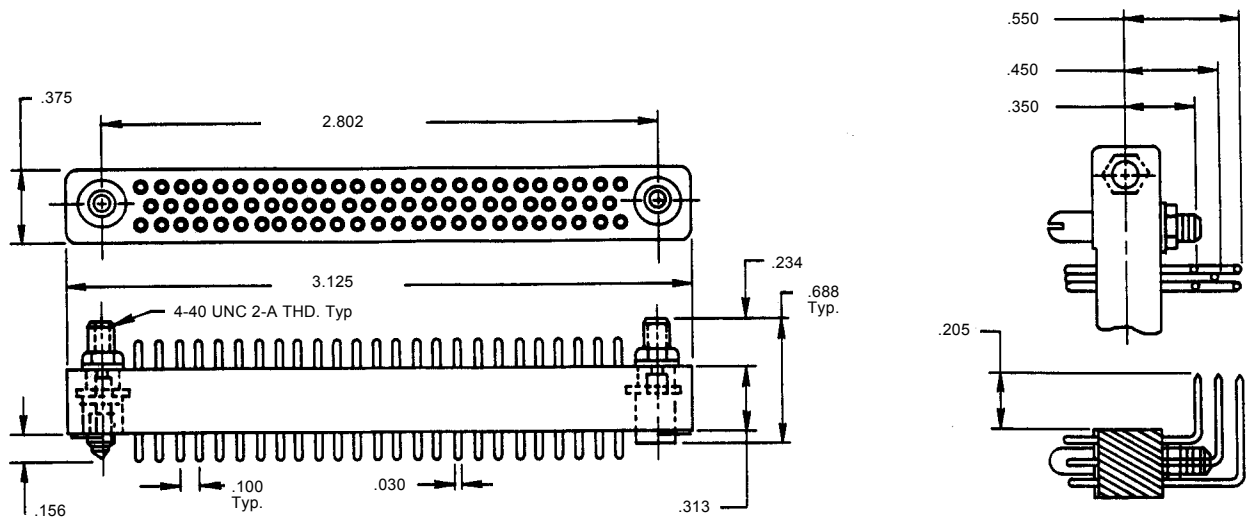
42 Series

Outline

Dimensions are for reference only and are subject to change. Outline drawings on request.

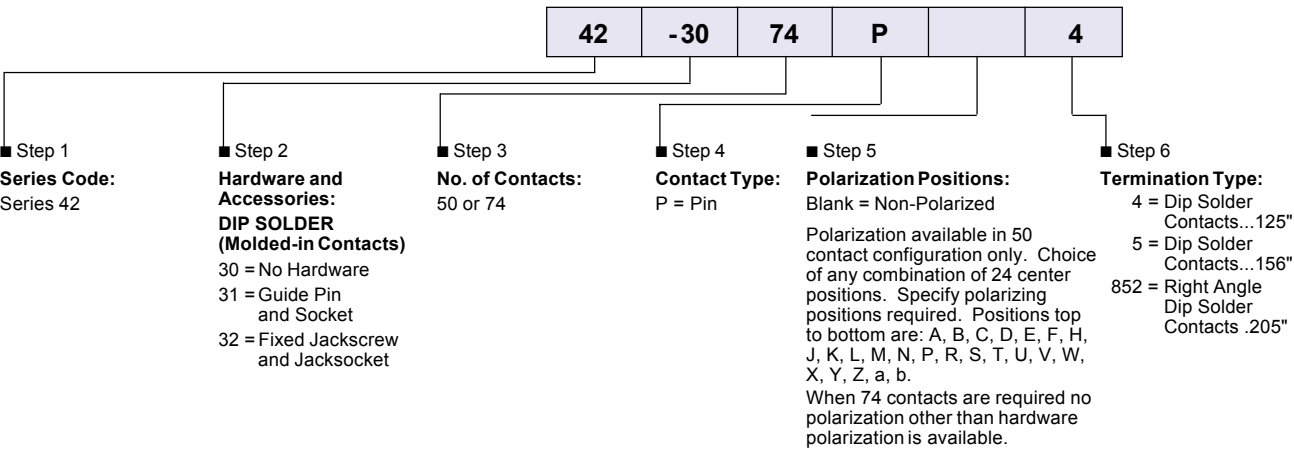
Dip Solder Receptacle

Shown:
74 contact right angle configuration. Center row eliminated for 50 contact connector.



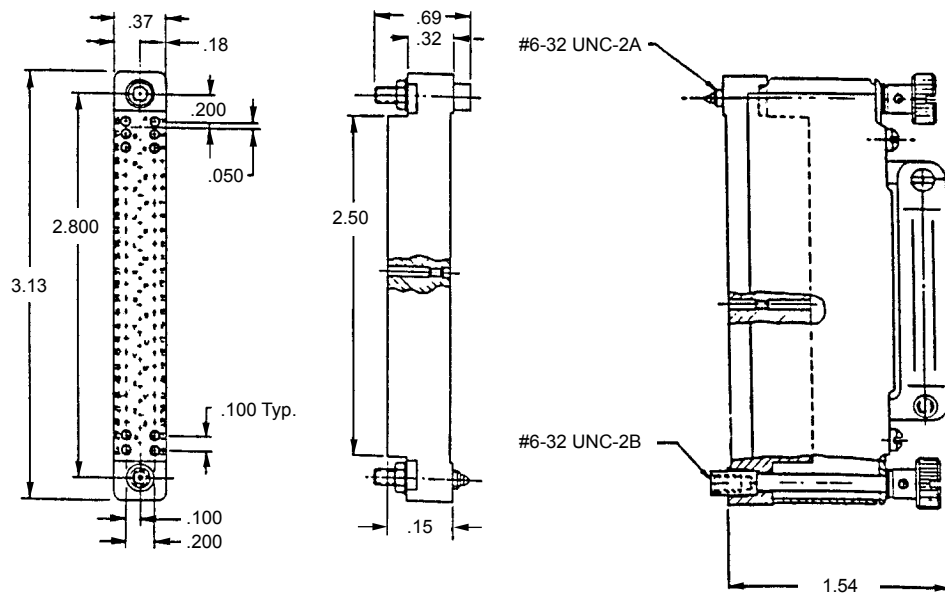
Dip Solder, Molded-in Contacts

Ordering Information



42 Series

Outline



Ordering Information

| 42 1 36 50 P | | | | | |
|--|--|--|--|---|--|
| Step 1 Series Code: Series 42 | Step 2 1 = Crimp Connector Molding | Step 3 Hardware and Accessories: <i>(See bottom chart)</i> | Step 4 No. of Contacts: 50 or 74 | Step 5 Contact Type: S = Socket P = Pin <i>Crimp removable contacts are ordered separately.</i> Pin Contacts: 100-4020P 100-4024P 100-4028P Socket Contacts: 100-4020S 100-4024S 100-4028S Socket Contacts (Closed Entry): 100-54020S 100-54024S 100-54028S <i>See 100 Series Contact Section of Rack & Panel</i> | Step 6 Polarization Positions: Blank = Non-Polarized Polarization available in 50 contact configuration only. Choice of any combination of 24 center positions. Specify polarizing positions required. Positions top to bottom are: A, B, C, D, E, F, H, J, K, L, M, N, P, R, S, T, U, V, W, X, Y, Z, a, b. When 74 contacts are required no polarization other than hardware polarization is available. |
| Crimp Removable Pin Contacts 34 = Molding, No Hardware 35 = Molding, With Guides 36 = Molding, With Fixed Jackscrews 52 = Molding, With Short-Turning Jackscrews 53 = Molding, With Long-Turning Jackscrews 54 = Molding, With Guides and Hood 55 = Molding, With Long-Turning Jackscrews and Hood Crimp Removable Socket Contacts 40 = Molding, No Hardware 41 = Molding, With Guides 42 = Molding, With Short-Turning Jackscrews, No Hood 43 = Molding, With Long-Turning Jackscrews, No Hood 44 = Molding, With Guides and Hoods 45 = Molding, With Long-Turning Jackscrews and Hood 46 = Molding, With Fixed Jackscrews | | | | | |

SRM Series

Sub Miniature Rectangular #20 Contacts / .040" Dia. / 7.5 Amps

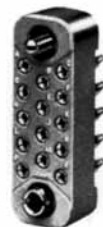
SRM Series connectors are particularly suitable where current rating and voltage drop requirements dictate a larger wire size than can be used with other subminiature connectors.



XSRM14PNSS2500



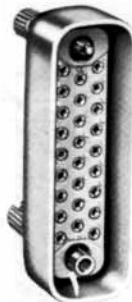
XSRM14PNSS1000



SRM14SNSS0000



SRM26SCO300



XSRM26SM2000



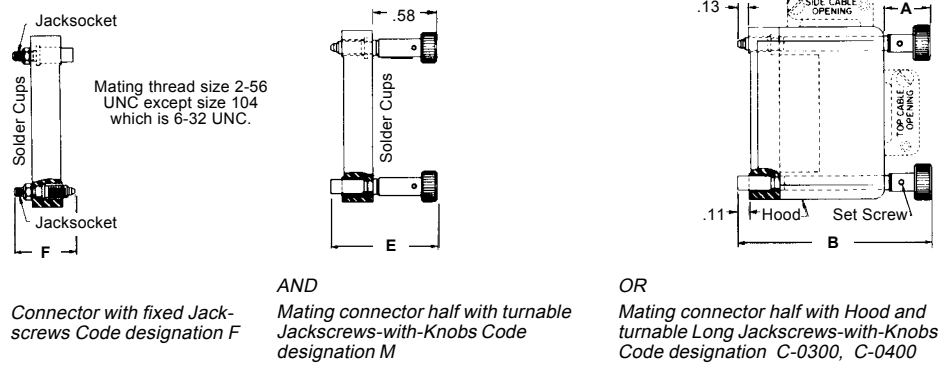
SRM26PF0000

Specifications

| | | | |
|---------------------------|--|--------------------|--|
| Current Rating: | 7.5 Amps | Dielectric: | Glass-filled diallyl phthalate - grey- per MIL-M-14, SDG-F. |
| No. of Contacts: | 5, 7, 11, 14, 20, 26, 34, 50, 75, 104 | Guides: | NSS Type, stainless steel; or N Type, brass. |
| Pin Contacts: | .040 dia. brass, gold plated. | Jackscrows: | Stainless steel with knurled and slotted aluminum knobs. |
| Socket Contacts: | Phosphor, bronze, gold plated. | Hoods: | Anodized aluminum. May be applied to either plug or receptacle. Both top and side openings are available. |
| Termination Types: | .048 dia. solder cups will accept up to #20 AWG stranded wire. Dip Solder Contacts, .030 dia. Check Sales Dept. for available lengths. | Shells: | Polarized shells are available. SRM connector assembled with a shell changes part number from SRM _____ to XSRM _____. |
| Electrical Data: | Minimum dielectric withstanding voltage is one minute at 1500 VAC when tested in accordance with MIL-C-28748. | | |

OUTLINE JACKSCREWS & JACKSOCKETS

Dimensions are for reference only and are subject to change. Outline drawings on request.



Jackscrew locking device assures positive coupling of engaged connectors to prevent accidental disconnecting from vibration or physical shock. It also aids easy connection and separation of connector plug and receptacle. Mounted connector-half houses one non-turnable fixed jackscrew and jackscrew to insure connector polarization. Mating-half houses one of the two types of turning jackscrew and jackscrew (M or C) Turnable jackscrew-jackscrew combination (M or C) assemblies on either Plug or

Receptacle, the mating connector-half (either Receptacle or Plug) must then contain fixed jackscrew-jackscrew combination (F). Both short and long turning jackscrews (M and C) have knurled and slotted knobs for locking by hand or screwdriver. Knob is assembled on shaft with a socket setscrew. Safety wiring of engaged halves is achieved by using the through-holes. Drawings show extension of standard knobs beyond hood.

Dimensions

| Standard Connector Size | Long Turning Code "C" | | Short Turning Code "M" | Fixed Jacks Code "F" |
|-------------------------|-----------------------|-------|------------------------|----------------------|
| | 0300 | 0300X | E | F |
| | A | B | | |
| SRM 5 | — | — | .92 | .53 |
| SRM 7 | — | 1.28 | .92 | .53 |
| SRM 11 | — | 1.84 | .92 | .53 |
| SRM 14 | — | 1.84 | .92 | .53 |
| SRM 20 | — | 2.09 | .92 | .53 |
| SRM 26 | .56 | 2.09 | .92 | .53 |
| SRM 34 | .56 | 2.09 | .92 | .53 |
| SRM 50 | .56 | 2.09 | .92 | .53 |
| SRM 75 | .56 | 2.23 | 1.06 | .67 |
| SRM 104 | .56 | 2.80 | 1.06 | .67 |

Codes

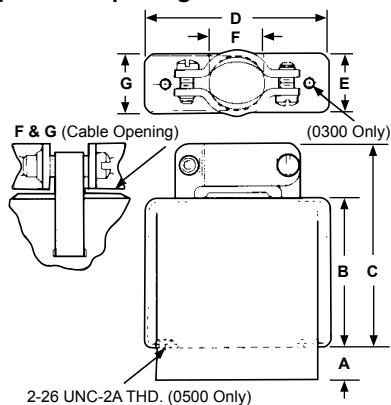
Note: Jackscrews and jacksockets are stainless steel with passivating dip. Knob is anodized aluminum.

| TYPE | | Code Letter |
|-----------|----------------|-------------|
| Jackscrew | Fixed | F |
| Jackscrew | Short Turnable | M |
| Jackscrew | Long Turnable | C |
| Knob | Standard | — |

Hoods- Formed Aluminum

Dimensions are for reference only and are subject to change. Outline drawings on request.

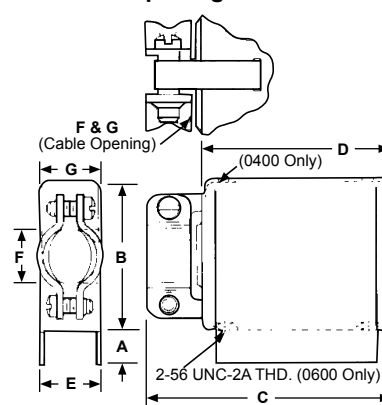
Top Cable Opening Hoods



0300X Cable Clamp

0300X Hood is identical to 0300 Hood except for cable clamp style and cable opening in the hood.

Side Cable Opening Hoods



0400X Cable Clamp

0400X Hood is identical to 0400 Hood except for cable clamp style and cable opening in the hood.

Dimensions

Top Cable Opening Hoods

| Code No. | Dimensions | | | | | | Cable Opening | Code No. | Dimensions | | | | | | Cable Opening | |
|--------------|------------|------|------|------|-----|-----|---------------|-----------------|------------|------|------|------|-----|----------|---------------|---|
| | A* | B | C | D | E | F | | | G | A* | B | C | D | E | | F |
| SRM 7-0300X | .16 | .38 | .67 | .88 | .30 | .36 | .23 | SRM 34-0300 | .16 | 1.19 | 1.63 | 1.56 | .56 | .63 | .5 | |
| SRM 7-0500 | .16 | .38 | .69 | .88 | .30 | .30 | .23 | SRM 34-0300X | .16 | 1.19 | 1.67 | 1.56 | .56 | .81 | .5 | |
| SRM 7-0500X | .16 | .38 | .67 | .88 | .30 | .36 | .23 | SRM 34-0500 | .16 | 1.19 | 1.63 | 1.56 | .56 | .63 | .5 | |
| SRM 11-0300X | .16 | .94 | 1.23 | .88 | .41 | .47 | .34 | SRM 34-0500X | .16 | 1.19 | 1.67 | 1.56 | .56 | .81 | .5 | |
| SRM 11-0500 | .16 | .94 | 1.25 | .88 | .41 | .44 | .34 | SRM 50-0300 | .16 | 1.19 | 1.63 | 2.06 | .56 | .66 | .5 | |
| SRM 11-0500X | .16 | .94 | 1.23 | .88 | .41 | .47 | .34 | SRM 50-0300X | .16 | 1.19 | 1.67 | 2.06 | .56 | .88 | .5 | |
| SRM 14-0300X | .16 | .94 | 1.23 | 1 | .41 | .5 | .34 | SRM 50-0500 | .16 | 1.19 | 1.63 | 2.06 | .56 | .66 | .5 | |
| SRM 14-0500 | .16 | .94 | 1.25 | 1 | .41 | .44 | .34 | SRM 50-0500X | .16 | 1.19 | 1.67 | 2.06 | .56 | .88 | .5 | |
| SRM 14-0500X | .16 | .94 | 1.23 | 1 | .41 | .5 | .34 | SRM 75-0300 | .16 | 1.19 | 1.63 | 2.06 | .78 | .63 Dia. | | |
| SRM 20-0300X | .16 | 1.19 | 1.67 | 1.25 | .41 | .72 | .34 | SRM 75-0300X | .16 | 1.19 | 1.72 | 2.06 | .78 | .91 | .72 | |
| SRM 20-0500 | .16 | 1.19 | 1.63 | 1.25 | .41 | .34 | .72 | SRM 75-0500 | .16 | 1.19 | 1.63 | 2.06 | .78 | .63 Dia. | | |
| SRM 20-0500X | .16 | 1.19 | 1.67 | 1.25 | .41 | .72 | .34 | SRM 75-0500X | .16 | 1.19 | 1.72 | 2.06 | .78 | .91 | .72 | |
| SRM 26-0300 | .16 | 1.19 | 1.63 | 1.5 | .41 | .56 | .34 | SRM 104-0300 | .16 | 1.75 | 2.28 | 2.38 | 1 | 1.06 | .94 | |
| SRM 26-0300X | .16 | 1.19 | 1.63 | 1.5 | .41 | .91 | .34 | SRM 104-0300X** | .16 | 1.75 | 2.52 | 2.38 | 1 | .86 | 1.36 | |
| SRM 26-0500 | .16 | 1.19 | 1.63 | 1.5 | .41 | .56 | .34 | SRM 104-0500 | .16 | 1.75 | 2.28 | 2.38 | 1 | 1.06 | .94 | |
| SRM 26-0500X | .16 | 1.19 | 1.63 | 1.5 | .41 | .91 | .34 | SRM 104-0500X** | .16 | 1.75 | 2.52 | 2.38 | 1 | .86 | 1.36 | |

Hoods may be ordered separately (see code numbers in above tables) or assembled on connectors. If desired assembled to connectors, see Code Numbering System for complete catalog number.

Prefix hood code numbers with "X" for use with shells. Example: XSRM34-0300

Side Cable Opening Hoods

| Code No. | Dimensions | | | | | | Cable Opening | Code No. | Dimensions | | | | | | Cable Opening |
|----------------|------------|------|------|------|-----|-----|---------------|---------------|------------|------|------|------|-----|----------|---------------|
| | A* | B | C | D | E | F | | | G | A* | B | C | D | E | |
| SRM 11-0400 | .16 | .94 | 1.19 | .88 | .41 | .44 | .34 | SRM 34-0400 | .16 | 1.19 | 2 | 1.56 | .56 | .63 | .5 |
| SRM 11-0400X | .16 | .94 | 1.17 | .88 | .41 | .34 | .47 | SRM 34-0400X | .16 | 1.19 | 2.03 | 1.56 | .56 | .81 | .5 |
| SRM 11-0600 | .16 | .94 | 1.19 | .88 | .41 | .44 | .34 | SRM 34-0600 | .16 | 1.19 | 2 | 1.56 | .56 | .63 | .5 |
| SRM 11-0600X | .16 | .94 | 1.17 | .88 | .41 | .34 | .47 | SRM 34-0600X | .16 | 1.19 | 2.03 | 1.56 | .56 | .81 | .5 |
| SRM 14-0400 | .16 | .94 | 1.31 | 1 | .41 | .44 | .34 | SRM 50-0400 | .16 | 1.19 | 2.5 | 2.06 | .56 | .66 | .5 |
| SRM 14-0400X | .16 | .94 | 1.30 | 1 | .41 | .5 | .34 | SRM 50-0400X | .16 | 1.19 | 2.53 | 2.06 | .56 | .88 | .5 |
| SRM 14-0600 | .16 | .94 | 1.31 | 1 | .41 | .44 | .34 | SRM 50-0600 | .16 | 1.19 | 2.5 | 2.06 | .56 | .66 | .5 |
| SRM 14-0600X | .16 | .94 | 1.30 | 1 | .41 | .5 | .34 | SRM 50-0600X | .16 | 1.19 | 2.53 | 2.06 | .56 | .88 | .5 |
| SRM 20-0400 | .16 | 1.19 | 1.69 | 1.25 | .41 | .56 | .34 | SRM 75-0400 | .16 | 1.19 | 2.5 | 2.06 | .78 | .63 Dia. | |
| SRM 20-0400X** | .16 | 1.19 | 1.73 | 1.25 | .41 | .72 | .34 | SRM 75-0400X | .16 | 1.19 | 2.58 | 2.06 | .78 | .91 | .72 |
| SRM 20-0600 | .16 | 1.19 | 1.69 | 1.25 | .41 | .56 | .34 | SRM 75-0600 | .16 | 1.19 | 2.5 | 2.06 | .78 | .63 Dia. | |
| SRM 20-0600X** | .16 | 1.19 | 1.73 | 1.25 | .41 | .72 | .34 | SRM 75-0600X | .16 | 1.19 | 2.58 | 2.06 | .78 | .91 | .72 |
| SRM 26-0400 | .16 | 1.19 | 1.94 | 1.5 | .41 | .56 | .34 | SRM 104-0400 | .16 | 1.75 | 2.91 | 2.38 | 1 | 1.06 | .94 |
| SRM 26-0400X | .16 | 1.19 | 1.94 | 1.5 | .41 | .91 | .34 | SRM 104-0400X | .16 | 1.75 | 2.91 | 2.38 | 1 | 1.44 | .94 |
| SRM 26-0600 | .16 | 1.19 | 1.94 | 1.5 | .41 | .56 | .34 | SRM 104-0600 | .16 | 1.75 | 2.91 | 2.38 | 1 | 1.06 | .94 |
| SRM 26-0600X | .16 | 1.19 | 1.94 | 1.5 | .41 | .91 | .34 | SRM 104-0600X | .16 | 1.75 | 2.91 | 2.38 | 1 | 1.44 | .94 |

*Note: This dimension does not apply when shells are used. Tab is removed.

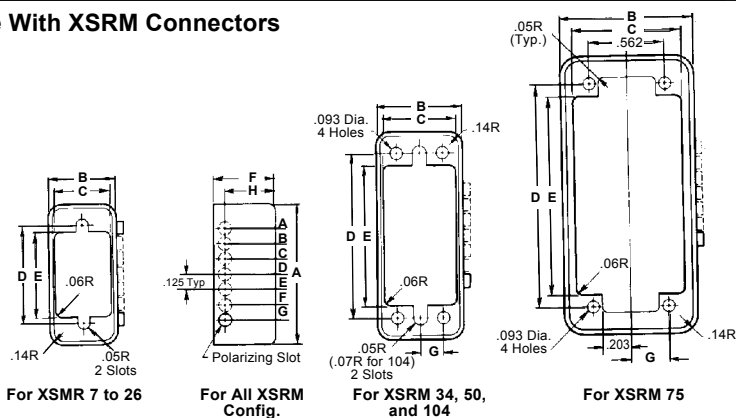
**Request availability information.

SRM Series

Plug Shells

Dimensions are for reference only and are subject to change. Outline drawings on request.

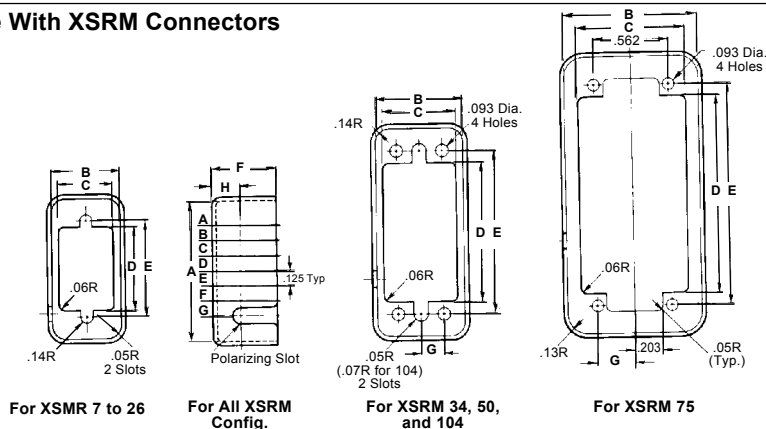
For Use With XSRM Connectors



Receptacle Shells

Dimensions are for reference only and are subject to change. Outline drawings on request.

For Use With XSRM Connectors



Materials

Shells are .031 thick aluminum, anodized for protection against corrosion. Either style - plug or receptacle - may be used to house a female insert, thus allowing "live" socket contacts to be cable or panel mounted.

Shells also provide a means by which connector polarization is accomplished - receptacle shell is slotted for engaging a polarizing pin on plug shell. Non-polarized shells have the slot and pin omitted.

Polarization

The shell part numbers given in table show an asterisk (*) where the code letter for the desired polarizing position belongs - example: XSRM14-2*000 becomes XSRM14-2B000

when polarization in position "B" is desired. Specify the same position on the mating shell. For non-polarized shells, merely omit this position, e.g. XSRM14-2000.

| Shell Size | Available Polarization Positions | Shell Size | Available Polarization Positions |
|------------|----------------------------------|------------|----------------------------------|
| 7 | A,B,C,D | 34 | A,B,C,D,E,F,G |
| 11 | A,B,C,D | 50 | A,B,C,D,E,F,G |
| 14 | A,B,C,D,E | 75 | A,B,C,D,E,F,G |
| 20 | A,B,C,D,E,F,G | 104 | A,B,C,D,E,F,G |
| 26 | A,B,C,D,E,F,G | | |

Dimensions

Plug Shells (.031" thick)

| Shell Part No. (if ordered separately) | Dimensions | | | | | | | |
|---|------------|------|-----|-------|------|-----|------|-----|
| | A | B | C | D | E | F | G | H |
| XSRM 7-1*000 | .97 | .33 | .23 | .625 | .53 | .44 | — | .31 |
| XSRM 11-1*000 | .97 | .44 | .34 | .625 | .53 | .44 | — | .31 |
| XSRM 14-1*000 | 1.11 | .44 | .34 | .750 | .67 | .44 | — | .31 |
| XSRM 20-1*000 | 1.34 | .44 | .34 | 1.00 | .94 | .44 | — | .31 |
| XSRM 26-1*000 | 1.61 | .44 | .34 | 1.250 | 1.16 | .44 | — | .31 |
| XSRM 34-1*000 | 1.66 | .61 | .5 | 1.312 | 1.16 | .44 | .172 | .31 |
| XSRM 50-1*000 | 2.16 | .83 | .5 | 1.812 | 1.66 | .44 | .172 | .31 |
| XSRM 75-1*000 | 2.16 | .81 | .72 | 1.812 | 1.66 | .58 | .281 | .45 |
| XSRM 104-1*000 | 2.48 | 1.05 | .94 | 2.062 | 1.81 | .58 | .312 | .45 |

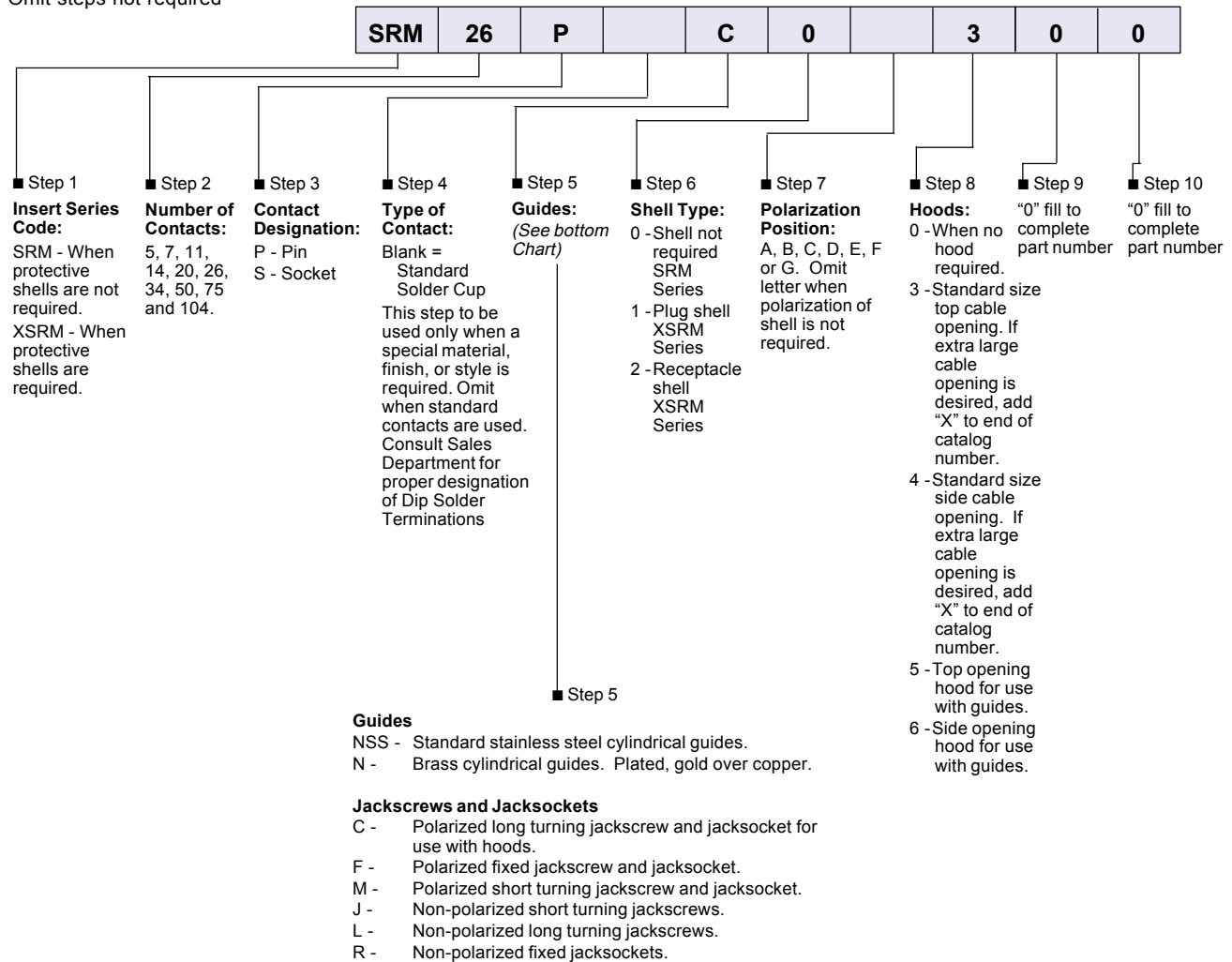
Receptacle Shells (.031" thick)

| Shell Part No. (if ordered separately) | Dimensions | | | | | | | |
|---|------------|------|-----|-------|------|-----|------|-----|
| | A | B | C | D | E | F | G | H |
| XSRM 7-2*000 | 1 | .36 | .23 | .625 | .53 | .44 | — | .19 |
| XSRM 11-2*000 | 1 | .47 | .34 | .625 | .53 | .44 | — | .19 |
| XSRM 14-2*000 | 1.13 | .47 | .34 | .750 | .67 | .44 | — | .19 |
| XSRM 20-2*000 | 1.38 | .47 | .34 | 1.00 | .94 | .44 | — | .19 |
| XSRM 26-2*000 | 1.63 | .47 | .34 | 1.250 | 1.16 | .44 | — | .19 |
| XSRM 34-2*000 | 1.69 | .63 | .5 | 1.312 | 1.16 | .44 | .172 | .19 |
| XSRM 50-2*000 | 2.19 | .63 | .5 | 1.812 | 1.66 | .44 | .172 | .19 |
| XSRM 75-2*000 | 2.19 | .84 | .72 | 1.812 | 1.66 | .58 | .281 | .33 |
| XSRM 104-2*000 | 2.5 | 1.06 | .94 | 2.062 | 1.81 | .58 | .312 | .33 |

SRM Series

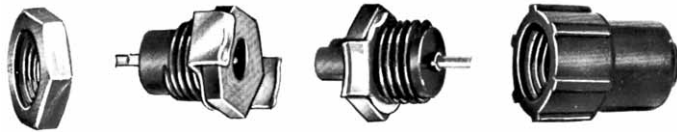
Ordering Information

Omit steps not required



PM6 Series

High Voltage, Single Contact / #20 Contacts / .040" Dia. / 7.5 Amps



N
Nylon Nut

PM1SLR
Plug with lock ring

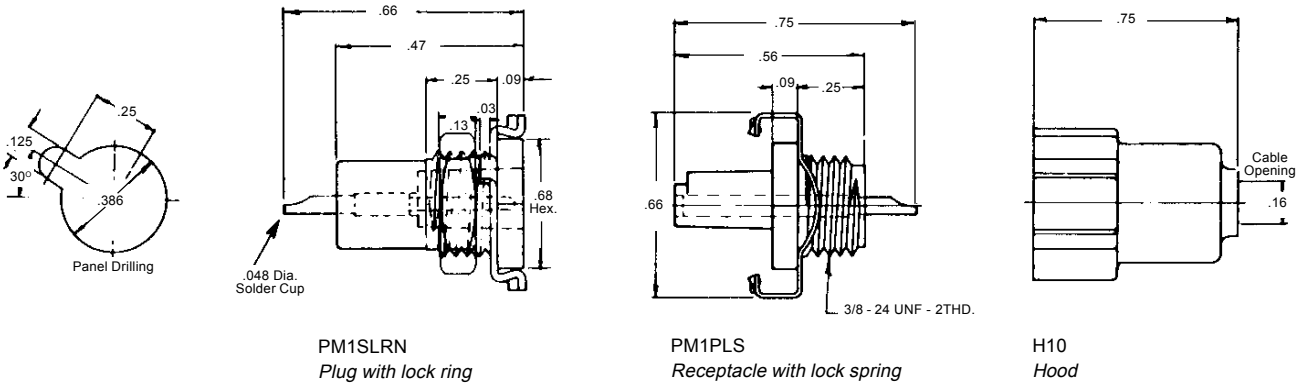
PM1PLS
Receptacle with lock spring

H10
Hood

This connector was developed for applications requiring moderately high voltage ratings, this single contact connector is particularly well adapted to Photo-Flash, Aircraft, Instrumentation and Communications Equipment.

Outline

Dimensions are for reference only and are subject to change. Outline drawings on request.



Specifications

| | | |
|--|-------------------------------------|---|
| Current Rating: 7.5 amps | | |
| No. of Contacts: 1 | | |
| Pin Contacts: .040 dia. brass, gold plated | Mounting: | receptacle with respect to each other. |
| Socket Contacts: Phosphor bronze, gold plated | | Cable or panel mounted. Use nylon nut applied to either plug or receptacle. |
| Terminations: .048 solder cup will accept up to #20 AWG stranded wire. | Lock Ring (and lock spring): | Applied to plug or receptacle. Prevents connector rotation on panel and when engaged with lock spring, prevents accidental disconnection due to vibration, etc. |
| Electrical Data: Dielectric withstanding voltage is one minute electrification at 5650 VAC. | | Diallyl Phthalate cable hood |
| Dielectric: Molded Diallyl phthalate per MIL-M-14, type SDG-F. Color Gray. | Hood: | |
| Polarization: Permits one engaging position only and prevents rotation of the plug and | Weight in Ounces: | Receptacle .05, Plug .05, Washer .005, Hood .07, Lock Ring .017, Lock Spring .019, Nut .015 |

Ordering Information

- PM1PLR-** Connector, plug with lock ring
PM1SLS- Connector, receptacle with lock spring
PM1PLS- Connector, plug with lock spring
PM1SLR- Connector, receptacle with lock ring
PM1P- Connector, plug without vibration lock
PM1S- Connector, receptacle without vibration lock

*Add **H10-** to above numbers when ordering hoods
*Add **H10C-** to above numbers for hood with cable clamp
Add **N-** to above numbers when ordering nylon nut

* When ordering hoods separately specify
P/N **H10T34** or **H10CT34**

PM6 Series



N
Nylon Nut

PM6SLR
Receptacle with lock ring

PM6PLS
Plug with lock spring

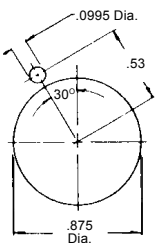
PM6H
Hood

This connector was developed for applications requiring moderately high voltage ratings, this connector of minimum bulk and

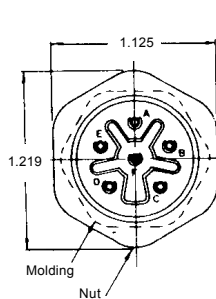
weight is particularly well adapted to Photo-Flash, Aircraft, Instrumentation and Communications Equipment.

Outline

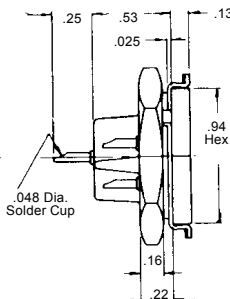
Dimensions are for reference only and are subject to change. Outline drawings on request.



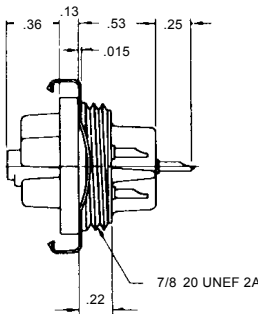
Panel Drilling



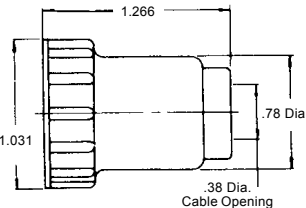
PM6SLRN
Receptacle



PM6PLS
Plug



PM6H
Hood



Specifications

| | |
|--|--|
| Current Rating: 7.5 amps | Polarization: Body design makes it impossible to make connection except in proper position. |
| No. of Contacts: 6 | Mounting: Cable or panel mounted. Use nylon nut applied to either plug or receptacle. |
| Pin Contacts: .040 dia. brass, gold plated | Lock Ring (and lock spring): Prohibits connector rotation on panel mounting and when engaged with lock spring, prevents accidental disconnection due to vibration, etc. |
| Socket Contacts: Spring temper phosphor bronze, gold plated | Hood: Molded diallyl phthalate cable hood may be applied to either plug or receptacle. |
| Terminations: .048 dia. solder cup accepts up to #20 AWG stranded wire. | |
| Electrical Data: Dielectric withstanding voltage is one minute electrification at 3560 VAC. | |
| Dielectric: Molded Diallyl phthalate per MIL-M-14, type SDG-F. Color Gray. | |

Ordering Information

| | |
|----------------|--|
| PM6PLS- | Connector, plug with lock spring |
| PM6SLR- | Connector, receptacle with lock ring |
| PM6PLR- | Connector, plug with lock ring |
| PM6SLS- | Connector, receptacle with lock spring |
| PM6P- | Connector, plug without vibration lock |
| PM6S- | Connector, receptacle without vibration lock |
| Add H- | to above numbers when ordering hoods |
| Add N- | to above numbers when ordering nylon nut |

SM Series

Sub Miniature / #20 - #24 Contacts / 3 And 7.5 Amps



N
Nylon Nut



SM2
Receptacle



SM2P
Plug



SMH
Hood

Extreme compactness and lightweight of these subminiature connectors make them ideal for limited space application in Aircraft. Portable Equipment and Instrumentation.

Specifications

| | | | |
|-------------------------|---|-------------------------|--|
| Current Rating: | SM1 - 7.5 amps; SM2, SM3 - 3 amps | Electrical Data: | Dielectric withstanding voltage is one minute electrification at 1200 VAC. |
| No. of Contacts: | 1, 2, 3 | Dielectric: | Diallyl Phthalate per MIL-M-14, type SDG-F. Color Gray. |
| Pin Contacts: | SM1 - .040 dia. brass, gold plated SM2, SM3 - .025 dia. brass, gold plated | Polarization: | Body design allows engagement in only one position. |
| Socket Contacts: | Phosphor bronze, gold plated | Mounting: | Either plug or receptacle may be mounted on chassis or bulkhead with 1/4 - 28 cadmium plated brass nut. Add "N" to code number to order. |
| Terminations: | SM1 - .048 dia. solder cup will accept up to #20 AWG stranded wire. SM2, SM3 - .037 dia. solder cup will accept up to #24 AWG stranded wire. | Hood: | Cable hood may be applied to both plug and receptacle. Add "H" to code number. When ordering a hood separately, order P/N SMH. |

Physical and Electrical Data

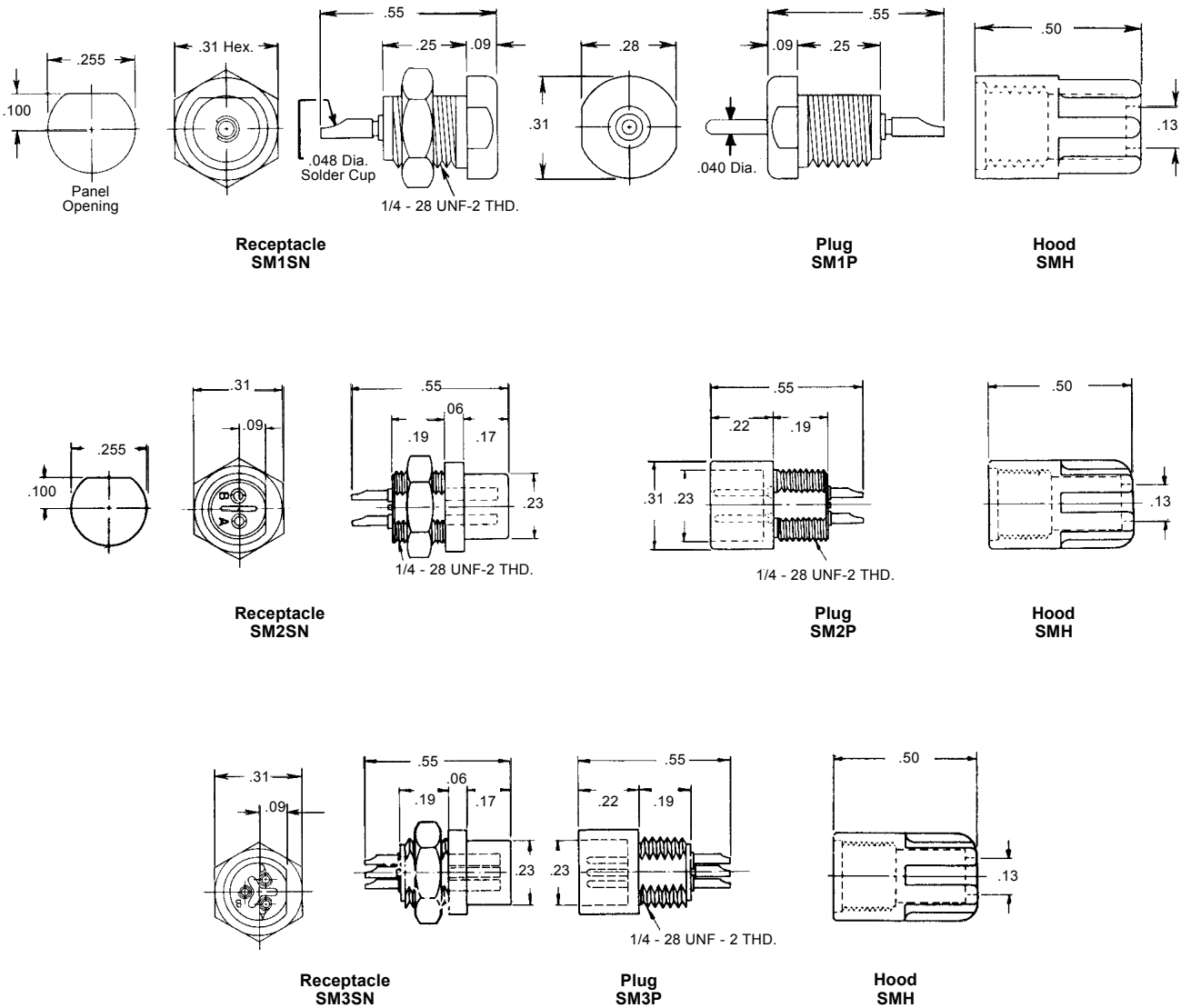
| Current Rating | Weight in Ounces | | * Wire Range |
|----------------|------------------|-----|--------------|
| | P. | R. | |
| SM1 - 7.5 Amp | .02 | .02 | SM1 - #20 |
| SM2 - 3 Amp | .02 | .02 | SM2 - #24 |
| SM3 - 3 Amp | .02 | .02 | SM3 - #24 |

* Stranded

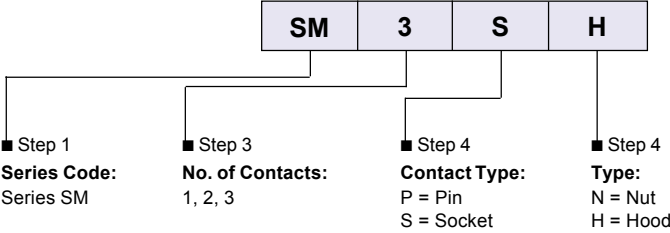
SM Series

Outline

Dimensions are for reference only and are subject to change. Outline drawings on request.



Ordering Information



M Series

High Voltage Miniature / #20 Contacts / .040" Dia. / 7.5 Amps



M4PLSH10

Plug with lock spring and hood



M4SLRGN

Receptacle with lock ring, ground lug and nut



M10SLRN

Receptacle with lock ring and nut



M10PLSH19

Plug with lock spring and hood



N

Nylon Nut



M12SLS12

Receptacle with lock spring



M12P

Plug



M12H

Hood with lock shell

The extreme compactness and lightweight of M connectors make them ideal for such applications as strain gauges, telemetry and pressure pick-up installations in aircraft, portable equipment and instrumentation.

Specifications

Current Rating: 7.5 amps

No. of

Contacts: 4, 5, 7, 9, 10, 12

Pin Contacts: .040 dia. brass, gold plated

Socket

Contacts: Spring temper phosphor bronze, gold plated

Terminations: .048 dia. solder cup accepts up to #20 AWG stranded wire. M12 - .043 dia. solder cup accepts up to #20 AWG stranded wire.

Electrical Data: The dielectric withstanding voltage is one minute electrification at 1500 VAC. (2250 VAC for M12).

Dielectric: Brown mineral filled diallyl phthalate. Also available in gray glass filled diallyl phthalate, per MIL-M-14, SDG-F.

Polarization: Body design permits engagement in proper position only.

Mounting: For 1/16" panel mounting of either plug or receptacle use cadmium plated brass nut for M4-10, nylon nut for M12. Add "N" to code number.

Lock Ring (and lock spring): May be applied to plug or receptacle to stop connector rotation on panel. When engaged with lock spring, prevents accidental disconnection due to vibration, etc.

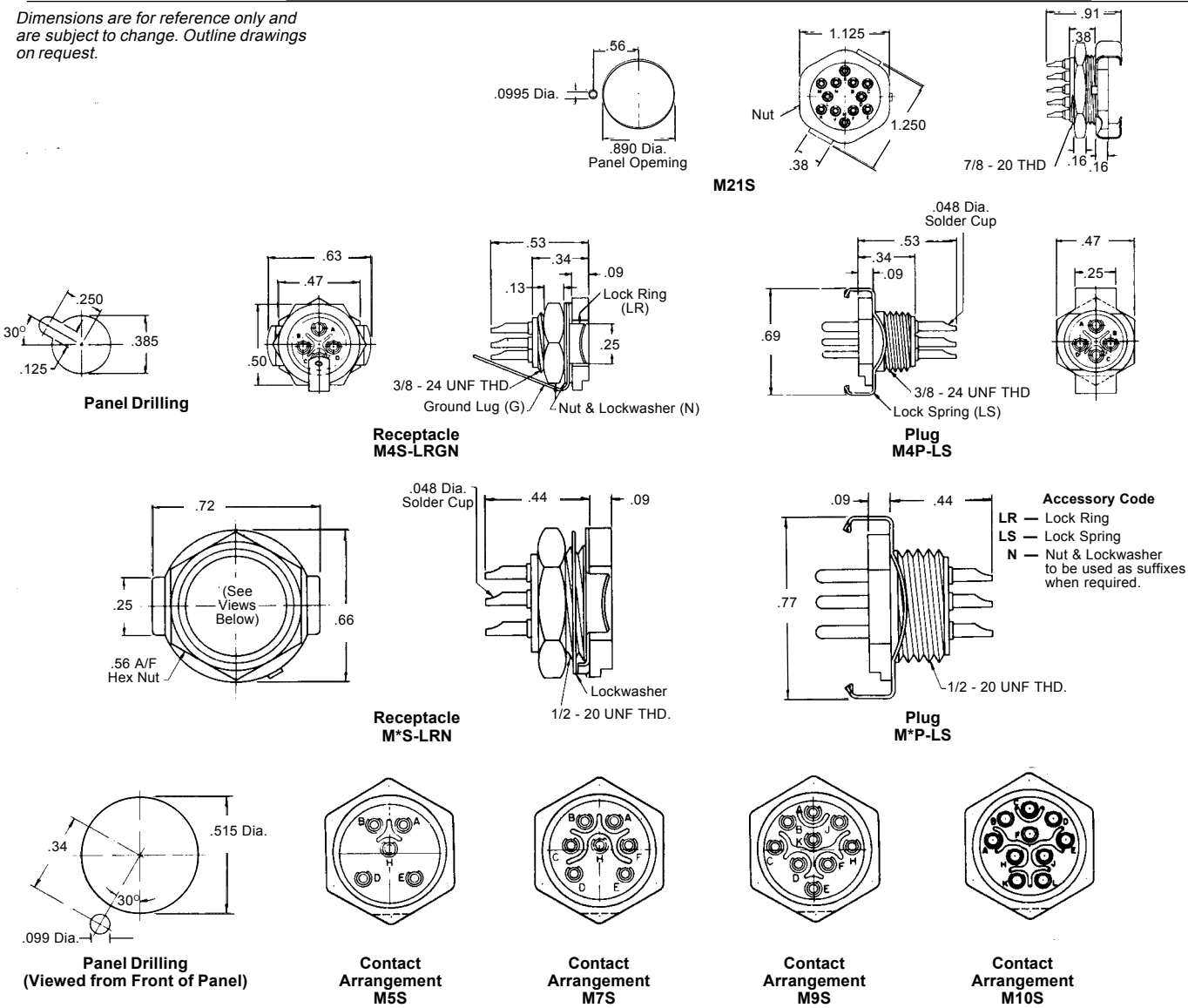
Ground Lug: Can be used to ground any of the 4 contacts on M4 connector. Add "G" to code number.

Hood: Anodized aluminum or brown mineral filled diallyl phthalate hoods may be applied to plug or receptacle of M4-M10. With or without cable clamps to provide additional strain relief for the cable.

M Series

Outline

Dimensions are for reference only and are subject to change. Outline drawings on request.



Contact locations are shown from terminal sides
NOTE: Contact arrangement of M*P are reversed
* Insert number, indicating number of contacts (5, 7, 9, 10)

Physical & Electrical Data

| Catalog Number | Number of Contacts | Weight In Ounces | | | | | | Solder Cup Hole Dia./in. | Current Rating |
|----------------|--------------------|------------------|------|-----|-------------|-----------|-------------|--------------------------|----------------|
| | | Plug | Rec. | Nut | Lock Spring | Lock Ring | Lock Washer | | |
| M4P M4S | 4 | .08 | .06 | .08 | .02 | .02 | .01 | .048 | 7.5 amps |
| M5P M5S | 5 | .10 | .08 | .06 | .02 | .03 | .01 | .048 | 7.5 amps |
| M7P M7S | 7 | .12 | .10 | .06 | .02 | .03 | .01 | .048 | 7.5 amps |
| M9P M9S | 9 | .13 | .10 | .06 | .02 | .03 | .01 | .048 | 7.5 amps |
| M10P M10S | 10 | .13 | .10 | .06 | .02 | .03 | .01 | .048 | 7.5 amps |
| M12P M12S | 12 | .3 | .4 | .05 | .02 | .03 | .01 | .043 | 7.5 amps |

M Series

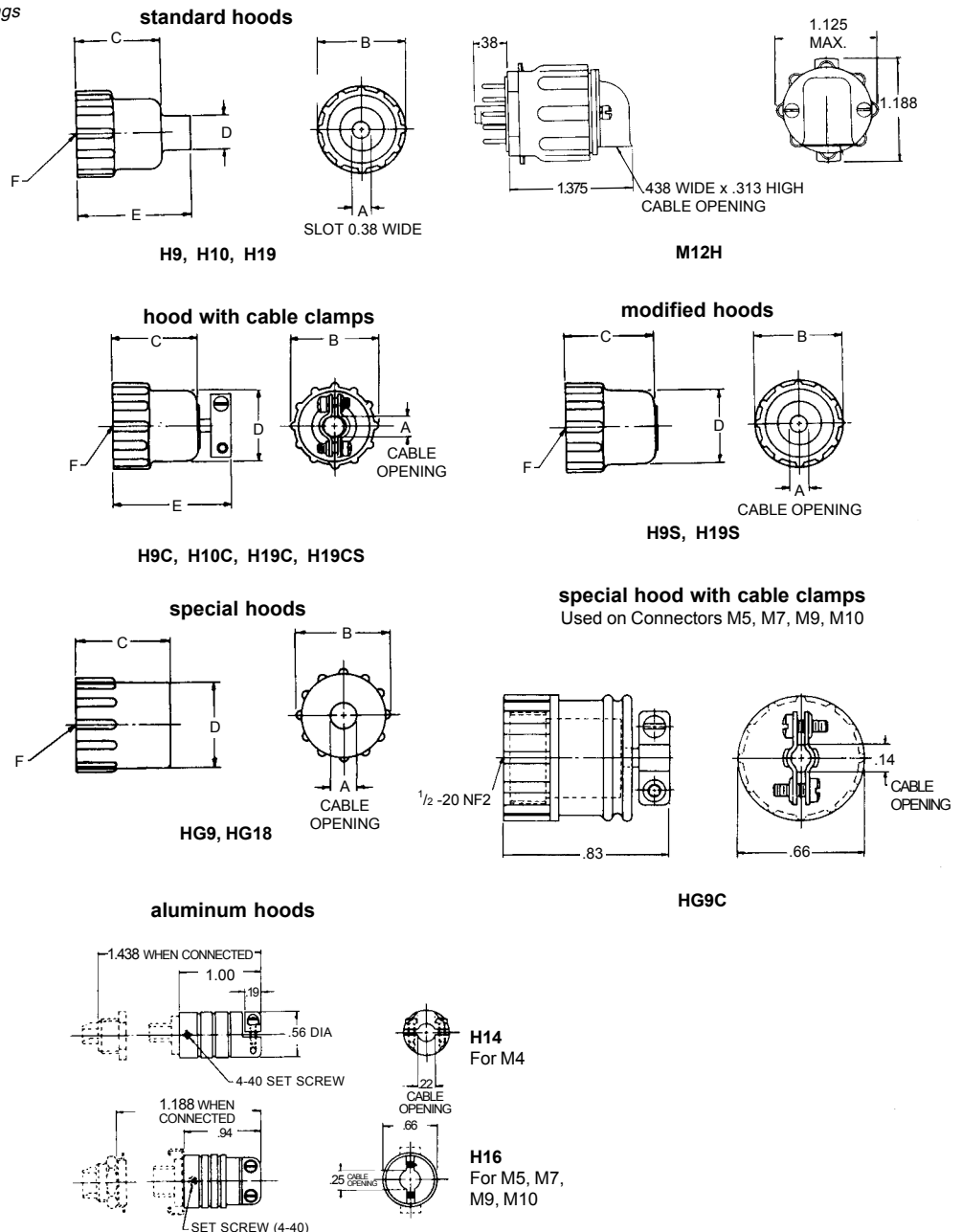
Molded Diallyl Phthalate and Aluminum Hoods

Molded diallyl phthalate cable hoods protect soldered wires and facilitate disengagement of connectors. Cable clamps provide additional strain relief and support. They are supplied on hoods with "C" in the code number. Clamps are cadmium plated with olive drab iridite finish. Anodized aluminum

hoods are precision machined from bar stock to give greater strength than die cast units. Cable clamps are machined as an integral part of the connector. The set screw prevents accidental disassembly from vibration, etc. A polyethylene sleeve liner provides added insulation in the terminal area.

Outline

Dimensions are for reference only and are subject to change. Outline drawings on request.



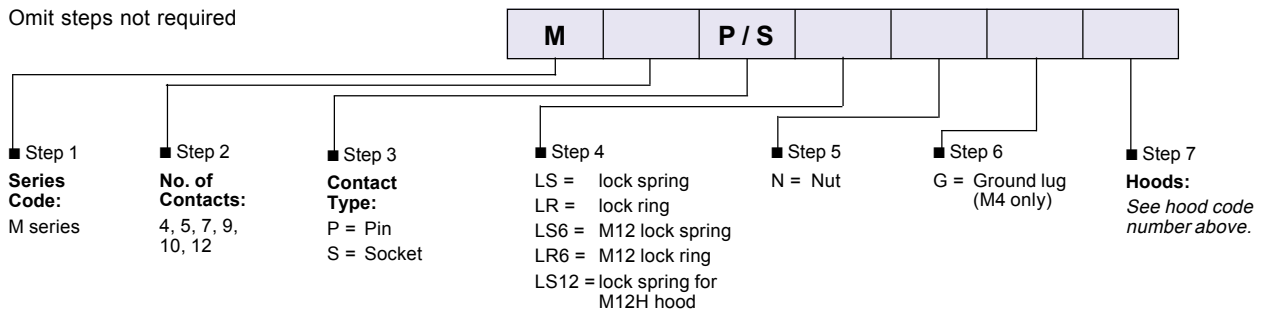
M Series

Physical Data

| Hood Code Number | Used on of Connectors | DIMENSIONS | | | | | | Weight In Ounces |
|------------------|-----------------------|-------------|-----|-----|-----|-----|----------|------------------|
| | | A | B | C | D | E | F-Thds | |
| H9 | M5, 7, 9, 10 | .14 | .66 | .66 | .27 | .88 | 1/2 - 20 | .10 |
| H10 | M4 | .16 | .56 | .69 | .25 | .75 | 3/8 - 24 | .05 |
| H19 | M5, 7, 9, 10 | .30 | .66 | .66 | .42 | .88 | 1/2 - 20 | .08 |
| H9C | M5, 7, 9, 10 | .16 | .66 | .78 | .55 | .97 | 1/2 - 20 | .11 |
| H10C | M4 | .19 | .56 | .69 | .44 | .88 | 3/8 - 24 | .09 |
| H19C | M5, 7, 9, 10 | .30 | .66 | .78 | .55 | .97 | 1/2 - 20 | .12 |
| H19CS | M5, 7, 9, 10 | .30 | .66 | .66 | .55 | .86 | 1/2 - 20 | .11 |
| H9S | M5, 7, 9, 10 | .14 | .66 | .66 | .55 | | 1/2 - 20 | .07 |
| H19S | M5, 7, 9, 10 | .30 | .66 | .66 | .55 | | 1/2 - 20 | .06 |
| HG9 | M5, 7, 9, 10 | .22 | .66 | .66 | .59 | | 1/2 - 20 | .10 |
| HG18 | M5, 7, 9, 10 | .28 | .66 | .66 | .59 | | 1/2 - 20 | .11 |
| HG9C | M5, 7, 9, 10 | See Drawing | | | | | | .14 |
| H14 | M4 | See Drawing | | | | | | .25 |
| H16 | M5, 7, 9, 10 | See Drawing | | | | | | .25 |
| H12H | M12 | See Drawing | | | | | | 1.10 |

Ordering Information

Omit steps not required



JF Series

Miniature Side Mount / #20 Contacts / .040" Dia. / 7.5 Amps

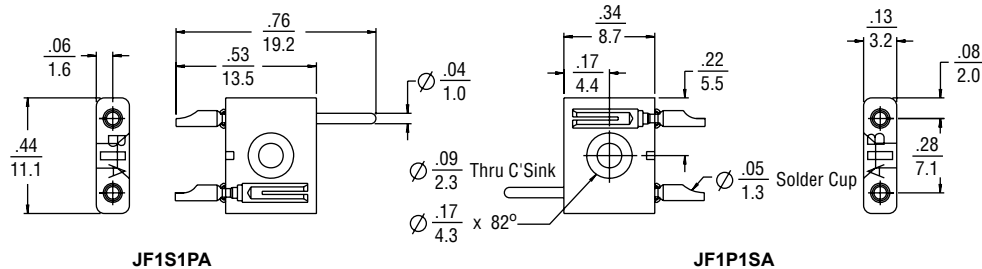
Outline

Dimensions are for reference only and are subject to change. Outline drawings on request.

Side Mounting, 4 Position Rectangular 2 and 4 Position In-Line

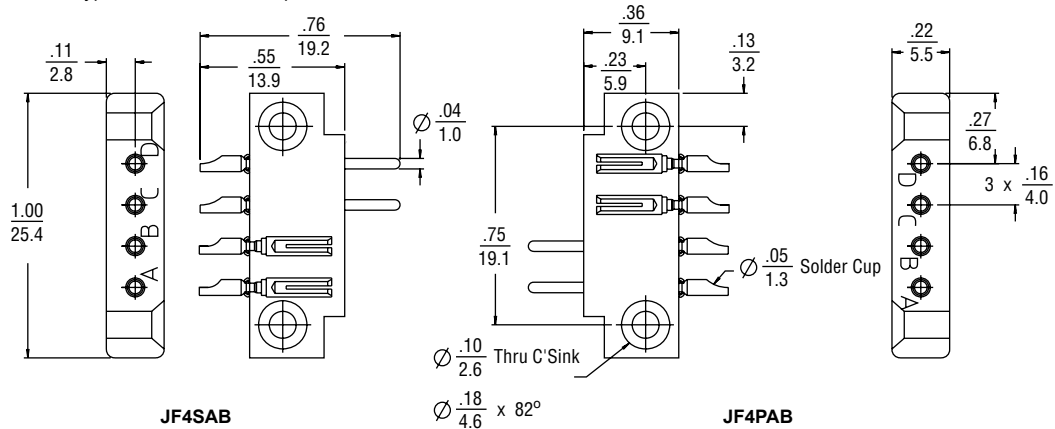
JF Series, PIN and Socket, 2 Position In-Line Connectors

Dimensions shown are typical for all standard 2 position in-line connectors.



JF Series, PIN and Socket, 4 Position In-Line Connectors

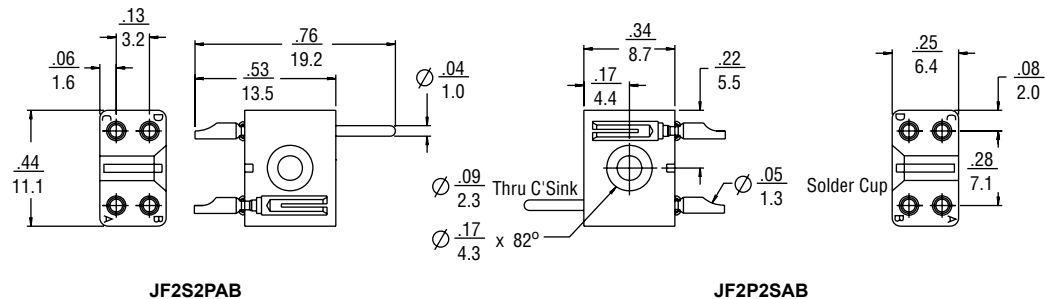
Dimensions shown are typical for all standard 4 position in-line connectors.



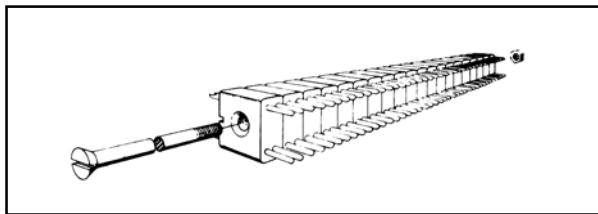
Side Mounting, 4 Position Rectangular, 2 and 4 Position In-Line

JF Series, PIN and Socket, 4 Position Rectangular Connectors

Dimensions shown are typical for all standard 4 position rectangular connectors.



JF Series



JF-2P
20 connectors assembled

The versatile JF Series has a countersunk mounting hole and narrow width permitting exceptionally flat mounting. Maximum circuit density is provided with many positive polarizations. "Custom" multi-contact connectors are readily available by using the building block technique shown above.

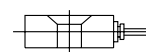
Outline

Dimensions are for reference only and are subject to change. Outline drawings on request.

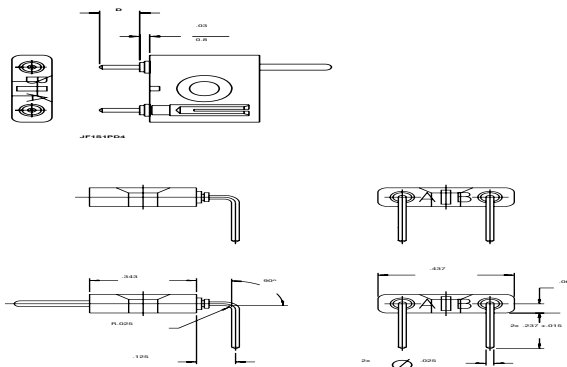
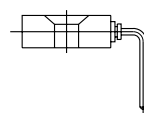
Typical Connector With DIP Solder Termination

JF Series connectors may be ordered with dip solder and right angle terminations. Consult factory for availability.

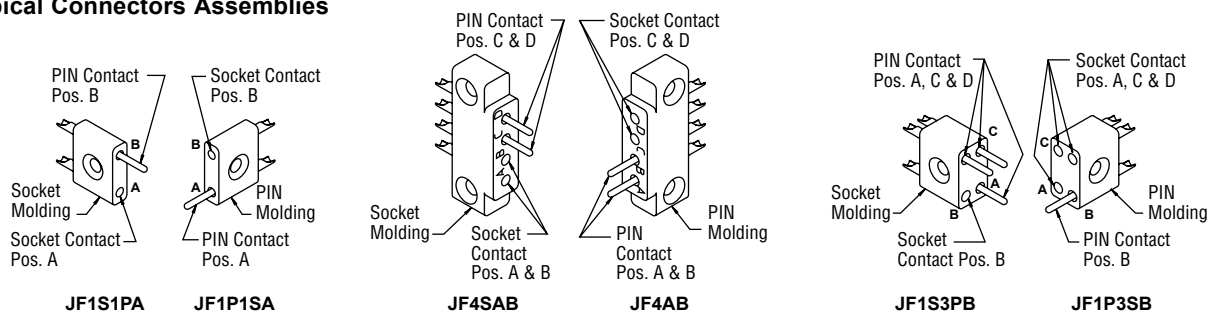
Straight Dip Solder



Right Angle Dip Solder

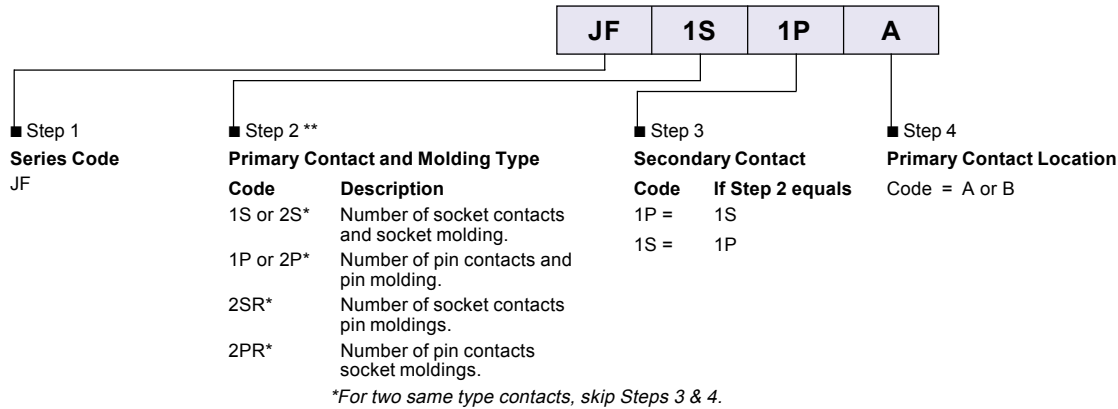


Typical Connectors Assemblies

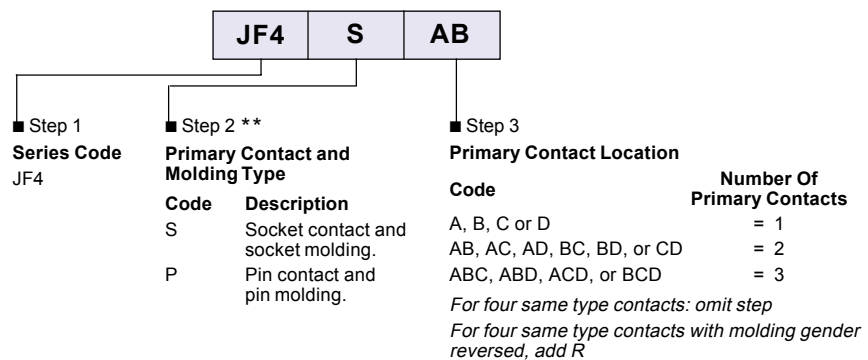


Ordering Information

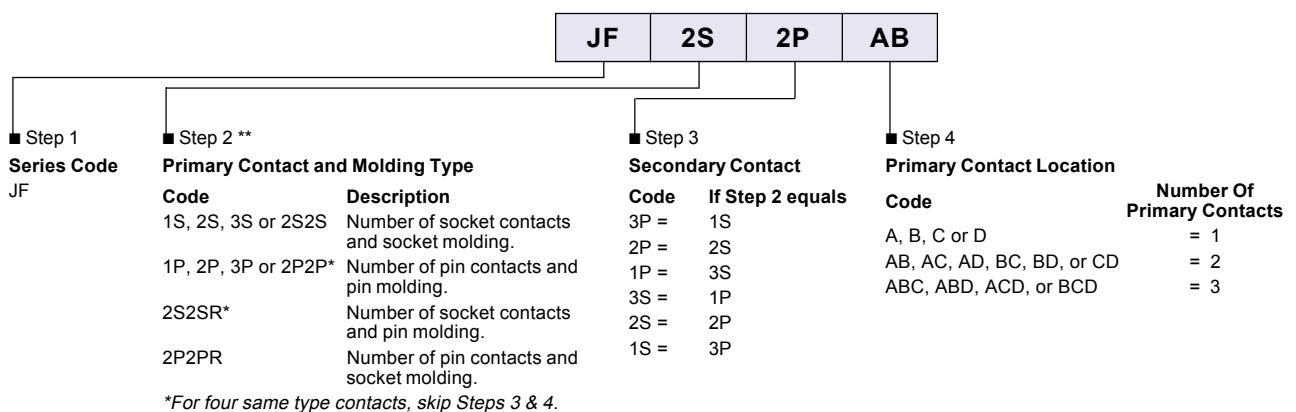
2 Position In-Line Connector



4 Position In-Line Connectors



4 Position Rectangular Connector



**For Pictorial Presentation, see RP/79 and RP/80

Specifications

Materials

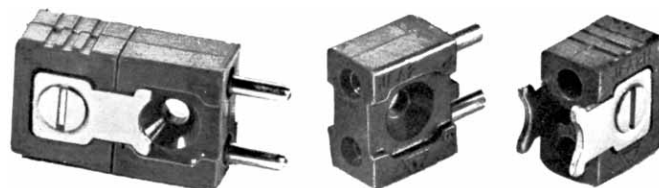
Moldings (PIN and Socket): Diallyl Orthophthalate
Pin Contacts: .040 Brass, gold plated
Socket Contacts: Phosphor bronze, gold plated

Performance Characteristics

Dielectric Withstanding Voltage: 1500 VAC (at sea level)
Current Rating: 7.5 Amps
Operating Temperature Range: -55°C to +125°C
Termination Type: .050 dia. solder cup to accept #20 AWG stranded wire.

JFA Series

Miniature Side Mount / #16 Contacts / .062" Dia. / 13 Amps



JFA2H — JFA2P
Hood and plug

JFA2S
Receptacle

JFA2H
Hood

For applications in electronic and communications equipment requiring miniature connectors with high current capacity. Series JFA miniature connectors may be used in television, radio and communications

equipment. The countersunk side mounting hole and narrow width permits exceptionally flat mounting —thereby minimizing connector protrusion when installed on equipment

Specifications

Current Rating: 13 amps

No. of Contacts: 2

Pin Contacts: .062 dia. brass, gold plated

Socket

Contacts: Phosphor bronze, gold plated

Terminations: .070 dia. solder cup will accept up to #16 AWG stranded wire.

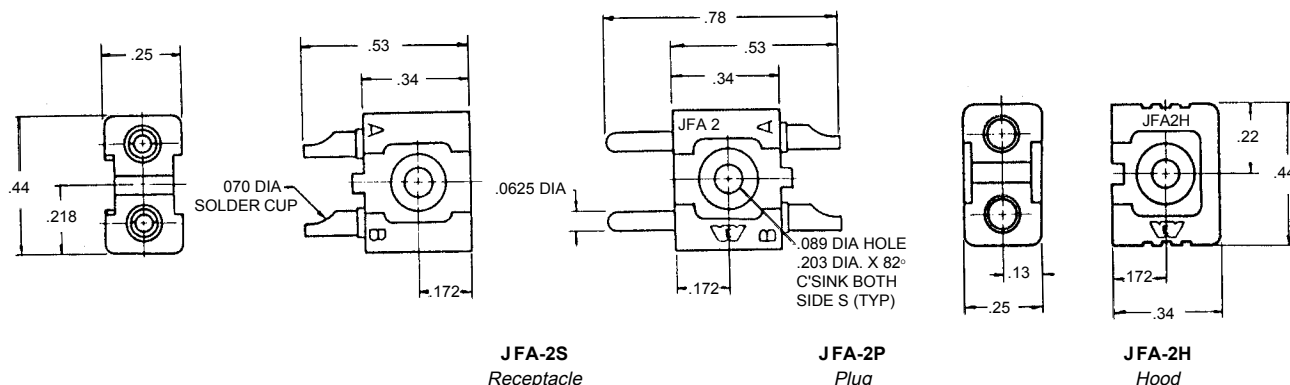
Electrical Data: Dielectric withstanding voltage is one minute electrification at 2925 VAC.

Dielectric: Molded diallyl phthalate per MIL-M-14

Hood: Locked to connector by means of two side mounted straps.

Outline

Dimensions are for reference only and are subject to change. Outline drawings on request.



Ordering Information

Physical Data

| Code Number | Number of Contacts | Current Rating Amps | Wire Size A.W.G. | Weight Ozs. |
|--|---------------------|---------------------|------------------|--------------|
| JFA-1P1S | 1 Pin 1 Socket | 13 | # 16 | .082 |
| JFA-2PH JFA-2SH (with hoods) | 2 Pins 2 Sockets | | | .059 .046 |
| JFA-1S1P | 1 Pin 1 Socket | | | .082 |
| JFA-2P JFA-2S (no-straps-on hoods) | 2 Pins 2 Sockets | 13 | # 16 | .059 .046 |

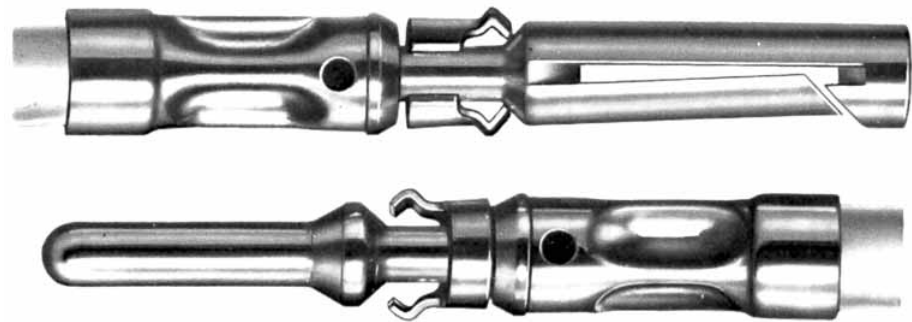
JFA2H — Hood — used on any of above 3 parts

Mating Combinations

| | | |
|-------------------|------------|-------------------|
| JFA2P | mates with | JFA2S |
| JFA2PH | mates with | JFA2SH |
| JFA1P1S-A | mates with | JFA1S1P-A |
| JFA1P1S-B | mates with | JFA1S1P-B |
| JFA1P1SH-A | mates with | JFA1S1PH-A |
| JFA1P1SH-B | mates with | JFA1S1PH-B |

100 Series

Removable Contacts



6x Actual Size — Typical Removable Contact

Winchester Electronics removable contacts allow quick, easy removal and replacement of any contact without disturbing another - and without discarding the connector. They offer exceptional flexibility in both the choice and revision of circuitry for rack and panel equipment ... at substantial savings in replacement and installation time. In addition, wiring costs are significantly lowered, as wires may be assembled away from the

connector itself. Assembly of contacts to wires is further simplified by crimp type contacts. A contact is slipped on the wire, inserted in the crimping tool, and crimped securely in place in seconds. Compact and self-aligning, these removable contacts provide high retention force and exceptional mechanical and electrical reliability. Solder type removable contacts are available for connectors using MRAC contacts.

Specifications

| | | | |
|-------------------------|--|---------------------------|---|
| Pin Contacts: | Copper Alloy, gold plated. | Specifications: | Conforms to applicable portions of MIL-C-39029 |
| Socket Contacts: | Closed entry type machined from copper alloy, gold plated. | Wire Sizes: | From a minimum 28 to a maximum 14 AWG. All contacts are designed to accept a minimum AWG conductor up to two sizes below maximum gage (each contact.) |
| Tools: | Complete line available. Includes automatic pneumatic, pneumatic hand operated, hand operated crimping tools, insertion and removal tools. | Termination Types: | Crimp, solder, dip solder or wire-wrap |
| Military | | Current Rating: | 7.5 Amps maximum for .040 contacts. 13 Amps maximum for .062 contacts. |

To Order: Specify by catalog number

Note: Series 100 Removable Contacts are not supplied with the connector. They must be ordered as a separate item.

100 Series Contacts

100 SERIES CONTACTS

| Loose Contact Part Number | Reeled Contact Part Number 2,000/Reel | Accommodates Conductor Sizes | Used In Connector Series | Diameter (See Drawings) | | Mating Pin Diameter | Description of Contacts | See Figure Number | AMPS per Cont | For Loose Contacts | | | | For Loose Contacts | | | For Reeled Contacts | | |
|---------------------------|---------------------------------------|------------------------------|--------------------------|-------------------------|------|---------------------|-------------------------|-------------------|---------------|--------------------|-------------|----------------|-----------------------|-----------------------|------------------------|-----------------------|----------------------------|-------------------------|-----------------------|
| | | | | A | B | | | | | Locator | Hand Tool | Pneumatic Tool | Gage Plug Part Number | Hand Tool Part Number | Positioner Part Number | Gage Plug Part Number | Pneumatic Tool Part Number | Depth Block Part Number | Gage Plug Part Number |
| 100-1014P | 100-0909P | 14-16 | MRAC, TMRAC, XAC, TXAC | .081 | .105 | .062 | Crimp Contact | 1 | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-22 | 107-0970 | 107-0981 | 5431-17 | 107-0961 | 107-0966 | 5431-14 |
| 100-1014S | 100-0919S | 14-16 | MRAC, TMRAC, XAC, TXAC | .081 | .105 | .062 | Crimp Contact | 2 | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-22 | 107-0970 | 107-0981 | 5431-17 | 107-0961 | 107-0966 | 5431-14 |
| 100-1016P | 100-0911P | 16-18-20 | MRAC, TMRAC, XAC, TXAC | .067 | .092 | .062 | Crimp Contact | 1 | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-14 | 107-0970 | 107-0977 | 5431-11 | 107-0961 | 107-0966 | 5431-14 |
| 100-1016S | 100-0921S | 16-18-20 | MRAC, TMRAC, XAC, TXAC | .067 | .097 | .062 | Crimp Contact | 2 | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-14 | 107-0970 | 107-0977 | 5431-11 | 107-0961 | 107-0966 | 5431-14 |
| 100-1018P | 100-0913P | 18-20-22 | MRAC, TMRAC, XAC, TXAC | .052 | .078 | .062 | Crimp Contact | 1 | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-14 | 107-0970 | 107-0977 | 5431-11 | 107-0961 | 107-0966 | 5431-14 |
| 100-1018S | 100-0923S | 18-20-22 | MRAC, TMRAC, XAC, TXAC | .052 | .078 | .062 | Crimp Contact | 2 | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-14 | 107-0970 | 107-0977 | 5431-11 | 107-0961 | 107-0966 | 5431-14 |
| 100-1020P | 100-0915P | 20-22-24 | MRAC, TMRAC, XAC, TXAC | .045 | .067 | .062 | Crimp Contact | 1 | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | 107-0970 | 107-0976 | 5431-12 | 107-0961 | 107-0965 | 5431-15 |
| 100-1020S | 100-0925S | 20-22-24 | MRAC, TMRAC, XAC, TXAC | .045 | .065 | .062 | Crimp Contact | 2 | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | 107-0970 | 107-0976 | 5431-12 | 107-0961 | 107-0965 | 5431-15 |
| 100-1022P | 100-0907P | 22-24-26 | MRAC, TMRAC, XAC, TXAC | .033 | .055 | .062 | Crimp Contact | 1 | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | 107-0970 | 107-0976 | 5431-12 | 107-0961 | 107-0965 | 5431-15 |
| 100-1022S | 100-0908S | 22-24-26 | MRAC, TMRAC, XAC, TXAC | .033 | .055 | .062 | Crimp Contact | 2 | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | 107-0970 | 107-0976 | 5431-12 | 107-0961 | 107-0965 | 5431-15 |
| 100-1024P | 100-0917P | 24-26-28 | MRAC, TMRAC, XAC, TXAC | .027 | .055 | .062 | Crimp Contact | 1 | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | 107-0970 | 107-0976 | 5431-12 | 107-0961 | 107-0965 | 5431-15 |
| 100-1024S | 100-0927S | 24-26-28 | MRAC, TMRAC, XAC, TXAC | .027 | .055 | .062 | Crimp Contact | 2 | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | 107-0970 | 107-0976 | 5431-12 | 107-0961 | 107-0965 | 5431-15 |
| 100-1026P | 100-0963P | 26-28-30 | MRAC, TMRAC, XAC, TXAC | .024 | .050 | .062 | Crimp Contact | 1 | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | 107-0970 | 107-0976 | 5431-12 | 107-0961 | 107-0965 | 5431-15 |
| 100-1026S | 100-0965S | 26-28-30 | MRAC, TMRAC, XAC, TXAC | .024 | .050 | .062 | Crimp Contact | 2 | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | 107-0970 | 107-0976 | 5431-12 | 107-0961 | 107-0965 | 5431-15 |
| 100-2016P | 100-0949P | 16-18-20 | MRAC, TMRAC, XAC, TXAC | .067 | .096 | .040 | Crimp Contact | 3 | 7.5 | 107-0945 | 107-0903-2A | 107-0918 | 5431-14 | 107-0970 | 107-0977 | 5431-11 | 107-0961 | 107-0966 | 5431-14 |
| 100-2016S | 100-0939S | 16-18-20 | MRAC, TMRAC, XAC, TXAC | .067 | .096 | .040 | Crimp Contact | 4 | 7.5 | 107-0945 | 107-0903-2A | 107-0918 | 5431-14 | 107-0970 | 107-0977 | 5431-11 | 107-0961 | 107-0966 | 5431-14 |
| 100-2018P | 100-0943P | 18-20-22 | MRAC, TMRAC, XAC, TXAC | .052 | .078 | .040 | Crimp Contact | 3 | 7.5 | 107-0945 | 107-0903-2A | 107-0918 | 5431-14 | 107-0970 | 107-0977 | 5431-11 | 107-0961 | 107-0966 | 5431-14 |
| 100-2018S | 100-0933S | 18-20-22 | MRAC, TMRAC, XAC, TXAC | .052 | .078 | .040 | Crimp Contact | 4 | 7.5 | 107-0945 | 107-0903-2A | 107-0918 | 5431-14 | 107-0970 | 107-0977 | 5431-11 | 107-0961 | 107-0966 | 5431-14 |
| 100-2020P | 100-0945P | 20-22-24 | MRAC, TMRAC, XAC, TXAC | .045 | .065 | .040 | Crimp Contact | 3 | 7.5 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | 107-0970 | 107-0976 | 5431-12 | 107-0961 | 107-0965 | 5431-15 |
| 100-2020S | 100-0935S | 20-22-24 | MRAC, TMRAC, XAC, TXAC | .045 | .065 | .040 | Crimp Contact | 4 | 7.5 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | 107-0970 | 107-0976 | 5431-12 | 107-0961 | 107-0965 | 5431-15 |
| 100-2022P | 100-0947P | 22-24-26 | MRAC, TMRAC, XAC, TXAC | .033 | .055 | .040 | Crimp Contact | 3 | 7.5 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | 107-0970 | 107-0976 | 5431-12 | 107-0961 | 107-0965 | 5431-15 |
| 100-2022S | 100-0937S | 22-24-26 | MRAC, TMRAC, XAC, TXAC | .033 | .055 | .040 | Crimp Contact | 4 | 7.5 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | 107-0970 | 107-0976 | 5431-12 | 107-0961 | 107-0965 | 5431-15 |
| 100-2024P | 100-0951P | 24-26-28 | MRAC, TMRAC, XAC, TXAC | .027 | .055 | .040 | Crimp Contact | 3 | 7.5 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | 107-0970 | 107-0976 | 5431-12 | 107-0961 | 107-0965 | 5431-15 |
| 100-2024S | 100-0941S | 24-26-28 | MRAC, TMRAC, XAC, TXAC | .027 | .055 | .040 | Crimp Contact | 4 | 7.5 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | 107-0970 | 107-0976 | 5431-12 | 107-0961 | 107-0965 | 5431-15 |

Continued on page RP / 85

100 Series Contacts

100 SERIES CONTACTS

| Loose Contact Part Number | Reeled Contact Part Number | Accommodates Conductor Sizes | Used In Connector Series | Diameter (See Drawings) | | Mating Pin Diameter | Description of Contacts | See Figure per Number | AMPS per Cont | For Loose Contacts | | | For Loose Contacts | | | For Reeled Contacts | | |
|---------------------------|----------------------------|------------------------------|---------------------------|-------------------------|------|---------------------|-------------------------|-----------------------|---------------|--------------------|-------------|----------------|-----------------------|-----------|------------------------|-----------------------|----------------------------|-------------------------|
| | | | | A | B | | | | | Locator | Hand Tool | Pneumatic Tool | Gage Plug Part Number | Hand Tool | Positioner Part Number | Gage Plug Part Number | Pneumatic Tool Part Number | Depth Block Part Number |
| 100-2514P | Not Available | 14-16-18 | MRAC, TMRAC XAC, TXAC | .081 | .105 | .062 | Solder Contact | 5 | 13 | | | | | | N/A Solder Contact | | | |
| 100-2514S | Not Available | 14-16-18 | MRAC, TMRAC XAC, TXAC | .081 | .105 | .062 | Solder Contact | 6 | 13 | | | | | | N/A Solder Contact | | | |
| 100-2516P | Not Available | 16-18-20 | MRAC, TMRAC XAC, TXAC | .067 | .097 | .062 | Solder Contact | 5 | 13 | | | | | | N/A Solder Contact | | | |
| 100-2516S | Not Available | 16-18-20 | MRAC, TMRAC XAC, TXAC | .067 | .097 | .062 | Solder Contact | 6 | 13 | | | | | | N/A Solder Contact | | | |
| 100-2518P | Not Available | 18-20-22 | MRAC, TMRAC XAC, TXAC | .052 | .076 | .062 | Solder Contact | 5 | 13 | | | | | | N/A Solder Contact | | | |
| 100-2518S | Not Available | 18-20-22 | MRAC, TMRAC XAC, TXAC | .052 | .076 | .062 | Solder Contact | 6 | 13 | | | | | | N/A Solder Contact | | | |
| 100-2520P | Not Available | 20-22-24 | MRAC, TMRAC XAC, TXAC | .045 | .065 | .062 | Solder Contact | 5 | 13 | | | | | | N/A Solder Contact | | | |
| 100-2520S | Not Available | 20-22-24 | MRAC, TMRAC XAC, TXAC | .045 | .065 | .062 | Solder Contact | 6 | 13 | | | | | | N/A Solder Contact | | | |
| 100-2522P | Not Available | 22-24-26 | MRAC, TMRAC XAC, TXAC | .033 | .055 | .062 | Solder Contact | 5 | 13 | | | | | | N/A Solder Contact | | | |
| 100-2522S | Not Available | 22-24-26 | MRAC, TMRAC XAC, TXAC | .033 | .055 | .062 | Solder Contact | 6 | 13 | | | | | | N/A Solder Contact | | | |
| 100-2524P | Not Available | 24-26-28 | MRAC, TMRAC XAC, TXAC | .027 | .055 | .062 | Solder Contact | 5 | 13 | | | | | | N/A Solder Contact | | | |
| 100-2524S | Not Available | 24-26-28 | MRAC, TMRAC XAC, TXAC | .027 | .055 | .062 | Solder Contact | 6 | 13 | | | | | | N/A Solder Contact | | | |
| 100-2616P | Not Available | 16-18-20 | MRAC, TMRAC XAC, TXAC | .067 | .096 | .040 | Solder Contact | 7 | 7.5 | | | | | | N/A Solder Contact | | | |
| 100-2616S | Not Available | 16-18-20 | MRAC, TMRAC XAC, TXAC | .067 | .096 | .040 | Solder Contact | 8 | 7.5 | | | | | | N/A Solder Contact | | | |
| 100-2620P | Not Available | 20-22-24 | MRAC, TMRAC XAC, TXAC | .045 | .065 | .040 | Solder Contact | 7 | 7.5 | | | | | | N/A Solder Contact | | | |
| 100-2620S | Not Available | 20-22-24 | MRAC, TMRAC XAC, TXAC | .045 | .065 | .040 | Solder Contact | 8 | 7.5 | | | | | | N/A Solder Contact | | | |
| 100-4020P | 100-0801P | 20-22 | SREC, 42 Series | See Drawing | | .030 | Crimp Contact | 23 | 5 | 107-43302 | 107-43300 | | 5431-25 | | | | 107-0961 | 107-0965 |
| 100-4020S | 100-0802S | 20-22 | SREC, 42 Series | See Drawing | | .030 | Crimp Contact | 24 | 5 | 107-43302 | 107-43300 | | 5431-25 | | | | 107-0961 | 107-0965 |
| 100-4024P | 100-0805P | 24-26-28 | SREC, 42 Series | See Drawing | | .030 | Crimp Contact | 25 | 5 | 107-43302 | 107-43300 | | 5431-25 | | | | 107-0961 | 107-0965 |
| 100-4024S | 100-0806S | 24-26-28 | SREC, 42 Series | See Drawing | | .030 | Crimp Contact | 26 | 5 | 107-43302 | 107-43300 | | 5431-25 | | | | 107-0961 | 107-0965 |
| 100-4028P | 100-0809P | 28-30 | SREC, 42 Series | See Drawing | | .030 | Crimp Contact | 27 | 5 | 107-43302 | 107-43300 | | 5431-25 | | | | 107-0961 | 107-0965 |
| 100-4028S | 100-0810S | 28-30 | SREC, 42 Series | See Drawing | | .030 | Crimp Contact | 28 | 5 | 107-43302 | 107-43300 | | 5431-25 | | | | 107-0961 | 107-0965 |
| 100-51014S | 100-0981S | 14-16 | MRAC, TMRAC, XAC, TXAC | .081 | .105 | .062 | 3 Piece Crimp | 19 | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-14 | | | | 107-0961 | 107-0966 |
| 100-51016S | 100-0982S | 16-18-20 | MRAC, TMRAC, XAC, TXAC | .067 | .094 | .062 | 3 Piece Crimp | 19 | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-14 | | | | 107-0961 | 107-0966 |
| 100-51018S | 100-0983S | 18-20-22 | MRAC, TMRAC, XAC, TXAC | .052 | .078 | .062 | 3 Piece Crimp | 19 | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-14 | | | | 107-0961 | 107-0966 |
| 100-51020S | 100-0984S | 20-22-24 | MRAC, TMRAC, XAC, TXAC | .045 | .067 | .062 | 3 Piece Crimp | 19 | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | | | | 107-0961 | 107-0965 |

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100 Series Contacts

100 SERIES CONTACTS

| Loose Contact Part Number | Reeled Contact Part Number 2,000/Reel | Accommodates Conductor Sizes | Used In Connector Series | Diameter (See Drawings) | | Mating Pin Diameter | Description of Contacts | See Figure Number | AMPS per Cont | For Loose Contacts | | | | For Reeled Contacts | | | | | |
|---------------------------|--|------------------------------|--------------------------|-------------------------|------|---------------------|-------------------------|-------------------|---------------|--------------------|---------------|----------------|-----------------------|-----------------------|------------------------|-----------------------|----------------------------|-------------------------|-----------------------|
| | | | | A | B | | | | | Locator | Hand Tool | Pneumatic Tool | Gage Plug Part Number | Hand Tool Part Number | Positioner Part Number | Gage Plug Part Number | Pneumatic Tool Part Number | Depth Block Part Number | Gage Plug Part Number |
| 100-51022S | 100-0985S | 22-24-26 | MRAC, TMRAC, XAC, TXAC | .033 | .055 | .062 | 3 Piece Crimp | 19 | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | | | 107-0961 | 107-0965 | 5431-15 | |
| 100-51024S | 100-0986S | 24-26-28 | MRAC, TMRAC, XAC, TXAC | .027 | .055 | .062 | 3 Piece Crimp | 19 | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | | | 107-0961 | 107-0965 | 5431-15 | |
| 100-51026S | 100-0987S | 26-28-30 | MRAC, TMRAC, XAC, TXAC | .024 | .050 | .062 | 3 Piece Crimp | 19 | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | | | 107-0961 | 107-0965 | 5431-15 | |
| 100-54020S | 100-0804S | 20-22 | SREC, 42 Series | See Drawing | | .030 | 3 Piece Crimp | 20 | 5 | 107-43302 | 107-43300 | | 5431-25 | | | | | | |
| 100-54024S | 100-0823S | 24-26 | SREC, 42 Series | See Drawing | | .030 | 3 Piece Crimp | 21 | 5 | 107-43302 | 107-43300 | | 5431-25 | | | | | | |
| 100-54028S | Not Available | 28-30 | SREC, 42 Series | See Drawing | | .030 | 3 Piece Crimp | 22 | 5 | 107-43302 | 107-43300 | | 5431-25 | | | | | | |
| | | | | | | | | | | | Inner Contact | | | Outer Contact | | | | | |
| 100-8000P | Not Available | RG178, 196/U | MRAC, TMRAC, XAC, TXAC | See Drawing | | .078 | Shielded Crimp | 31 | — | 107-43303 | 107-43300 | | 5431-26 | 107-0903-2A | 107-0944 | | | | |
| 100-8000S | Not Available | RG178, 196/U | MRAC, TMRAC, XAC, TXAC | See Drawing | | .078 | Shielded Crimp | 32 | — | 107-43303 | 107-43300 | | 5431-26 | 107-0903-2A | 107-0944 | | | | |
| 100-8001P | Not Available | RG161, 179, 187/U | MRAC, TMRAC, XAC, TXAC | See Drawing | | .078 | Shielded Crimp | 31 | — | 107-43303 | 107-43300 | | 5431-26 | 107-43330 | Not Required | | | | |
| 100-8001S | Not Available | RG161, 179, 187/U | MRAC, TMRAC, XAC, TXAC | See Drawing | | .078 | Shielded Crimp | 32 | — | 107-43303 | 107-43300 | | 5431-26 | 107-43330 | Not Required | | | | |
| 100-8003P | Not Available | RG174, 188, 316/U | MRAC, TMRAC, XAC, TXAC | See Drawing | | .078 | Shielded Crimp | 31 | — | 107-43303 | 107-43300 | | 5431-26 | 107-43330 | Not Required | | | | |
| 100-8003S | Not Available | RG174, 188, 316/U | MRAC, TMRAC, XAC, TXAC | See Drawing | | .078 | Shielded Crimp | 32 | — | 107-43303 | 107-43300 | | 5431-26 | 107-43330 | Not Required | | | | |
| 7130 | Not Available | Dip Solder | MRAC, TMRAC | Not Applicable | | .062 | Dip Solder | 9 | 13 | N/A Dip Solder | | | | | | | | | |
| 7131 | Not Available | Dip Solder | MRAC, TMRAC | Not Applicable | | .062 | Dip Solder | 10 | 13 | N/A Dip Solder | | | | | | | | | |
| 8122 | Not Available | Wire Wrap | SREC | Not Applicable | | .030 | Wire Wrap | 13 | 5 | N/A Wire Wrap | | | | | | | | | |
| 8123 | Not Available | Wire Wrap | SREC | Not Applicable | | .030 | Wire Wrap | 14 | 5 | N/A Wire Wrap | | | | | | | | | |
| 8124 | Not Available | Dip Solder | MRAC, TMRAC | Not Applicable | | .062 | Dip Solder | 11 | 5 | N/A Dip Solder | | | | | | | | | |
| 8125 | Not Available | Dip Solder | MRAC, TMRAC | Not Applicable | | .062 | Dip Solder | 12 | 13 | N/A Dip Solder | | | | | | | | | |
| 8113 | Not Available | Wire Wrap | MRAC, TMRAC | Not Applicable | | .062 | Wire Wrap | 16 | 13 | N/A Wire Wrap | | | | | | | | | |
| 8114 | Not Available | Wire Wrap | MRAC, TMRAC | Not Applicable | | .062 | Wire Wrap | 15 | 13 | N/A Wire Wrap | | | | | | | | | |
| 8105 | Not Available | Wire Wrap | MRAC, TMRAC | Not Applicable | | .062 | Wire Wrap | 18 | 13 | N/A Wire Wrap | | | | | | | | | |
| 8106 | Not Available | Wire Wrap | MRAC, TMRAC | Not Applicable | | .062 | Wire Wrap | 17 | 13 | N/A Wire Wrap | | | | | | | | | |

100-S = Military Contacts

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MIL-C-39029 Contacts

MIL-C-39029 CONTACTS

| M39029 Part Number | Winchester Part Number | Accommodates Conductor Sizes | Used In Connector Series | Diameter | | Mating Pin Dia. | Description of Contacts | See Figure Number | AMPS per Cont | MIL Spec Crimp Tool | Winchester Crimp Tool | MIL Spec Positioner | Winchester Positioner | Insertion Tool MIL | Insertion Tool Winchester | Removal Tool MIL | Removal Tool Winchester |
|--------------------|------------------------|------------------------------|--------------------------|----------|------|-----------------|-------------------------|-------------------|---------------|---------------------|-----------------------|---------------------|-----------------------|--------------------|---------------------------|------------------|-------------------------|
| | | | | A | B | | | | | | | | | | | | |
| M39029/34-271 | 100R-2020P95 | 20-22-24 | M28748 | .045 | .067 | .040 | Crimp Contact | 3 | 7.5 | M22520/1-01 | 107-0903-2A | M22520/1-03 | 107-0945 | M81969/18-01 | 107-1015 | M81969/20-01 | 107R1001 |
| M39029/34-272 | 100R-1020P95 | 20-22-24 | M28748 | .045 | .067 | .062 | Crimp Contact | 1 | 13 | M22520/1-01 | 107-0903-2A | M22520/1-03 | 107-0945 | M81969/18-01 | 107-1015 | M81969/20-01 | 107R1001 |
| M39029/34-273 | 100B-1016P95 | 16-18-20 | M28748 | .067 | .092 | .062 | Crimp Contact | 1 | 13 | M22520/1-01 | 107-0903-2A | M22520/1-03 | 107-0945 | M81969/18-01 | 107-1015 | M81969/20-01 | 107R1001 |
| M39029/34-440 | 100-202861-50 | 22-24-26 | M28748 | .035 | .056 | .030 | Crimp Contact | 29 | 5 | M22520/2-01 | 107-43300 | Buchm.614412 | 107-0611 | M81969/18-02 | IT2857 | M81969/20-02 | RT2855 |
| M39029/35-274 | 100R-2020S95 | 20-22-24 | M28748 | .045 | .067 | .040 | Crimp Contact | 4 | 7.5 | M22520/1-01 | 107-0903-2A | M22520/1-03 | 107-0945 | M81969/18-01 | 107-1015 | M81969/20-01 | 107R1001 |
| M39029/35-275 | 100R-51020S95 | 20-22-24 | M28748 | .045 | .067 | .062 | Crimp Contact | 19 | 13 | M22520/1-01 | 107-0903-2A | M22520/1-03 | 107-0945 | M81969/18-01 | 107-1015 | M81969/20-01 | 107R1001 |
| M39029/35-276 | 100B-51016S95 | 16-18-20 | M28748 | .067 | .092 | .062 | Crimp Contact | 19 | 13 | M22520/1-01 | 107-0903-2A | M22520/1-03 | 107-0945 | M81969/18-01 | 107-1015 | M81969/20-01 | 107R1001 |
| M39029/35-441 | 100-202862-50 | 22-24-26 | M28748 | .035 | .056 | .030 | Crimp Contact | 30 | 5 | M22520/2-01 | 107-43300 | Buchm.614412 | | M81969/18-02 | IT2857 | M81969/20-02 | RT2855 |

Outline

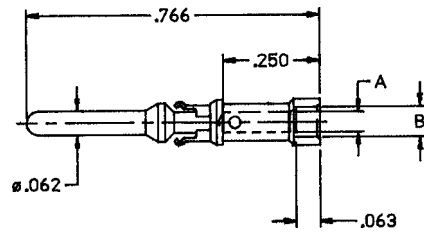


Figure 1

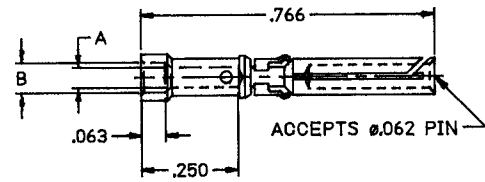


Figure 2

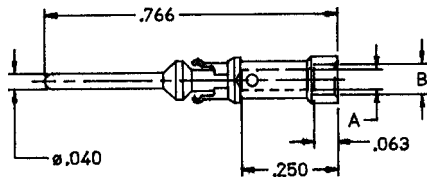


Figure 3

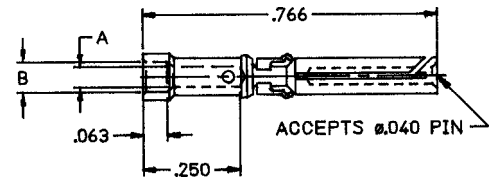


Figure 4

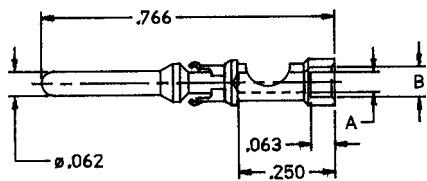


Figure 5

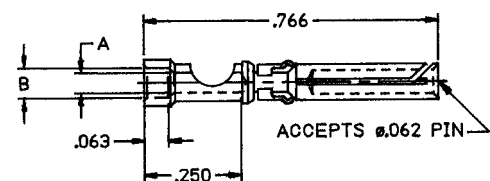


Figure 6

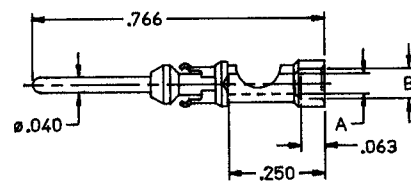


Figure 7

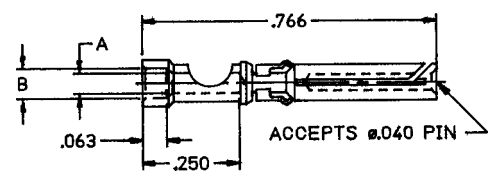


Figure 8

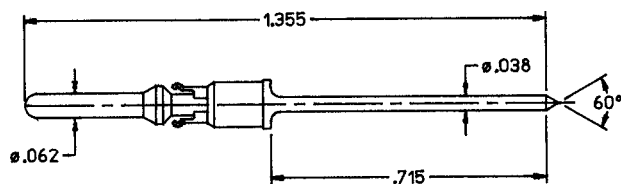


Figure 9

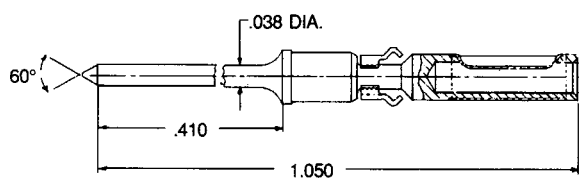


Figure 10

Outline

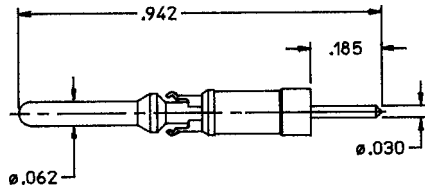


Figure 11

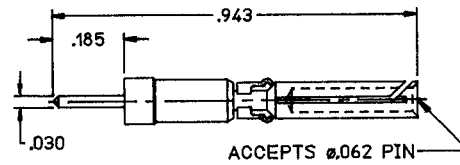


Figure 12

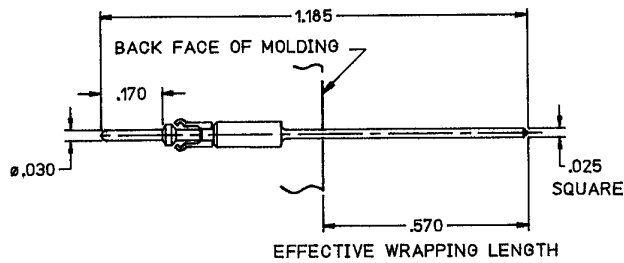


Figure 13

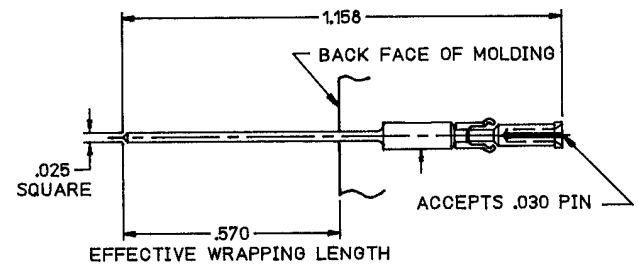


Figure 14

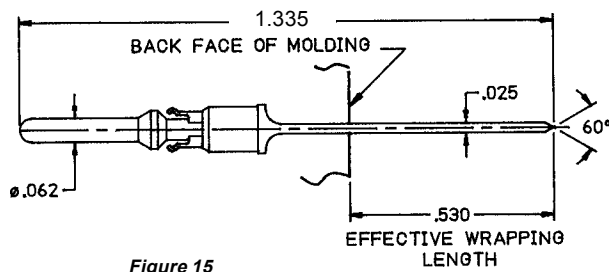


Figure 15

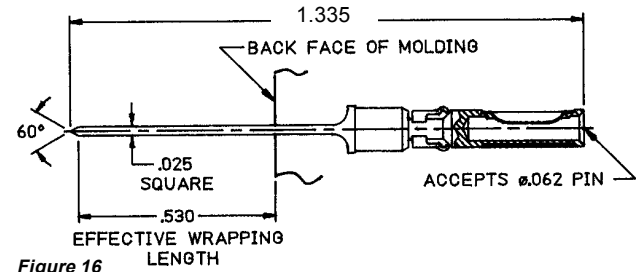


Figure 16

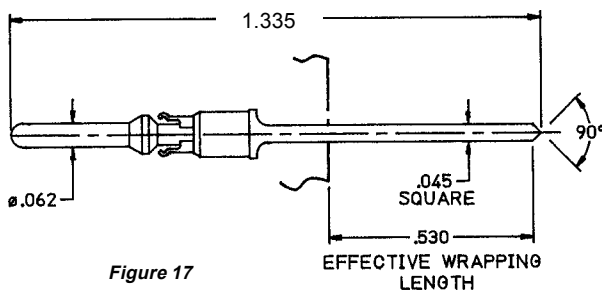


Figure 17

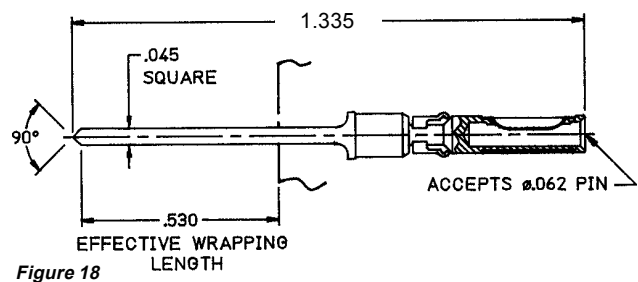


Figure 18

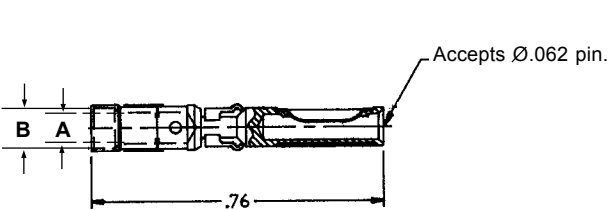


Figure 19

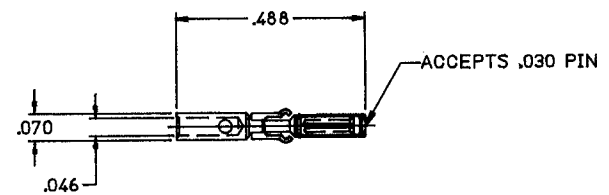


Figure 20

100 Series

Outline

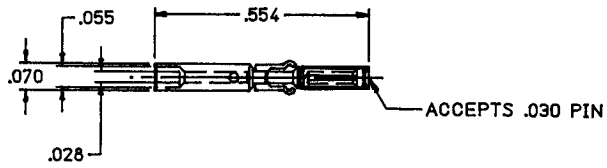


Figure 21

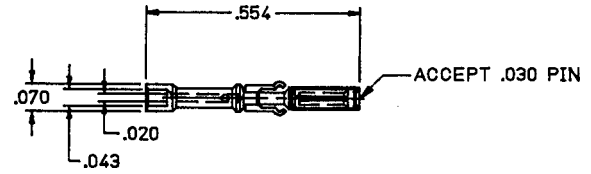


Figure 22

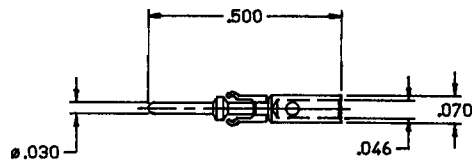


Figure 23

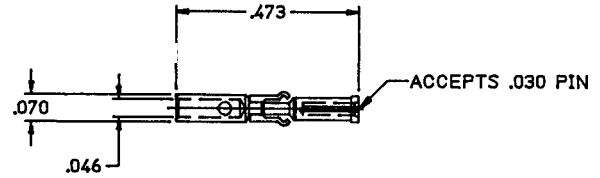


Figure 24

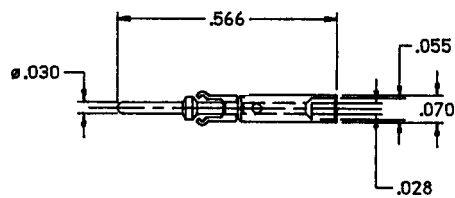


Figure 25

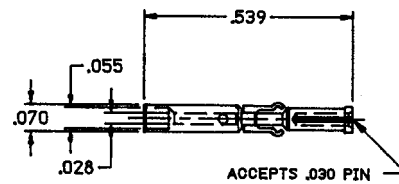


Figure 26

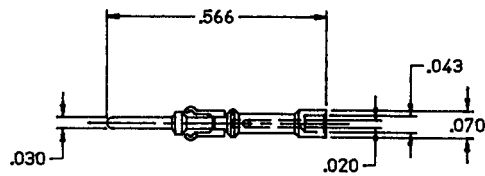


Figure 27

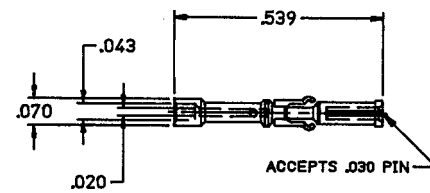


Figure 28

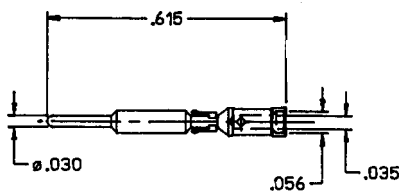


Figure 29

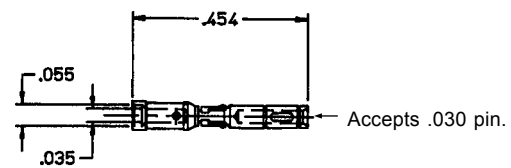


Figure 30

Outline

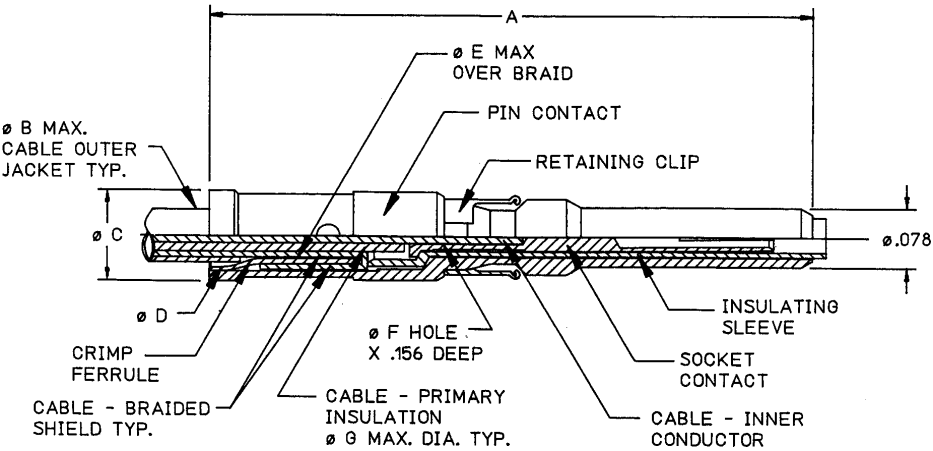


Figure 31

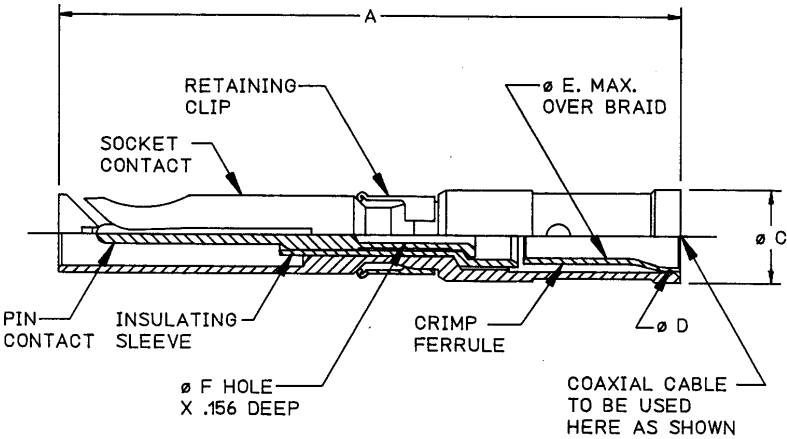


Figure 32

Ordering Information

| Catalog Number | Style | Cable Sizes | Dimensions | | | | | | |
|----------------|--------|-------------------------------|------------|------|------|------|------|------|------|
| | | | A | B | C | D | E | F | G |
| 100-8000P | Pin | RG178/U RG196/U | .797 | .080 | .120 | .082 | .057 | .020 | .036 |
| 100-8000S | Socket | | | | | | | | |
| 100-8001P | Pin | RG161/U RG179/U RG187/U | 1.031 | .110 | .137 | .111 | .082 | .020 | .063 |
| 100-8001S | Socket | | | | | | | | |
| 100-8003P | Pin | RG174/U RG188/U RG316/U | 1.031 | .110 | .137 | .111 | .082 | .023 | .063 |
| 100-8003S | Socket | | | | | | | | |

107 Series

Crimping Tools and Accessories

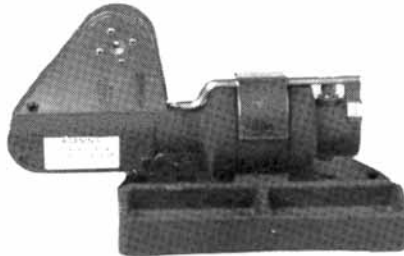
Pneumatic And Hand Crimping Tools



Automatic Feed Crimping Tool 600/1200 Crimps Per Hour

Catalog Number **107-0961**

Air operated tool provides for a large capacity reel and foot valve control. Crimp depths are accurately controlled by interchangeable snap-in depth blocks when the tool is bench mounted. Leaves operator's hands free. (Does not include reel or foot valve control.) Includes crimp depth blocks. Automatic Crimp Tool made up of bench mount (107-0962) and crimp tool (107-0960). Used to crimp 100-10**P/S, 100-20**P/S, 100-510**S Series.



Pneumatic Hand Crimping Tool 400 Crimps Per Hour

Catalog Number **107-0918**

Requires 80/120 psi. Crimp depth adjustment made by internal screw. Locators, adaptor sleeves, and gage plugs should be ordered separately. Locator 107-0945 and adapter 107-0950 supplied with tool.

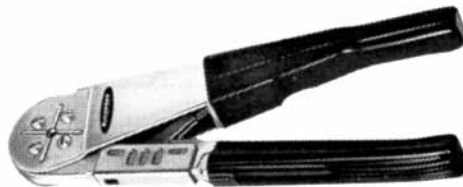


Hand Operated Crimping Tool 200/300 Crimps Per Hour

Catalog Number **107-0903-2A**

(Mil-T-22520 Class II Equivalent)

Gage plugs should be ordered separately. Locator 107-0945 and Spanner wrench 107-1102 supplied with tool.



Miniature Hand Operated Crimping Tool

Catalog Number **107-43300**

This miniature version of the MS crimping tool is suited for the smaller crimp contacts such as the SREC series. It is only 7 1/2 inches long and weighs 10 1/2 ounces. Positioners are ordered separately.



Miniature Hand Operated Crimping Tool

Catalog Number **107-0625**

Miniature tool with a continuously variable crimp depth adjustment. Locators must be ordered separately.

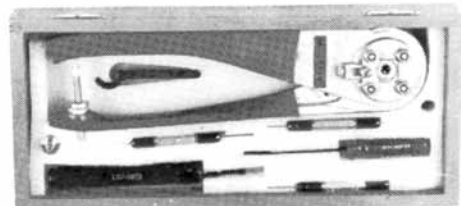


Hand Operated Crimping Tool 200/500 Crimps Per Hour

Catalog Number **107-0970**

MS—3191-2 (Mil-T-22520 Class I)

Ruggedly built hand tools with forged body, and four indentors machined from high grade tool steel. Size approximately 9 inches long. Weight approximately 19 ounces.



Tool Kit

Catalog Number **107K4**

Includes crimping tool 107-0903-2A, locator 107-0945, insertion tool 107-1015, removal tool 107R-1001, spanner wrench 107-1102 and go/no-go gages 5431.

107 Series

Guide Set Tool

This tool provides fast and easy installation of G7 and N7 Guide Sets. Screwdriver type tips are enclosed by cylindrical aligners that hold tips in place in the Guide pin and socket slots to prevent slippage. Tool holds pin or socket in place while hex nut is tightened with hex wrench.



Catalog Number **107-0701**
for MRE / MRA / MRAC G7 / N7 Guide

Catalog Number **107-0704**
for MRE 5-3, 8 / SREC N Guide



Hex Wrench

This tool provides fast and easy installation of guides and fixed jacks. This tool may be used with the guide set tool.

Catalog Number **107-0703**
for MRE / MRA / MRAC (hex size $\frac{3}{16}$)

Catalog Number **107-0708**
for MRE 5-3, 8 / SRE / SREC (hex size $\frac{5}{32}$)



Locators

| Catalog Number | Used With | |
|----------------|-----------------------|------------------------|
| | Contact | Tool |
| 107-0626 | SREC | 107-0625 |
| 107-0627 | MRAC (Inner) Shielded | |
| 107-0628 | MRAC 20, 22, 24, 26 | |
| 107-0945 | MRAC | 107-0902 & 107-0903-2A |
| 107-43302 | MRAC (Outer) Shielded | |



Removable Contact Insertion Tools

Catalog Number **107-1011**
for SREC

Catalog Number **107-1015**
for MRAC / STD & Shielded



Contact Pin Straightener

Catalog Number **107-1024**
used on .040 or .062 dia.



Removable Contact Removal Tools

Catalog Number **107-1005**
for MRAC / STD & Shielded

Catalog Number **107-1012**
for SREC

Catalog Number **107R1001**
for MRAC / STD



Gage Plug

Catalog Number **5431**
When ordering gage plugs, please specify:

1. Tool
2. Contact Size
3. Wire Size



Positioners

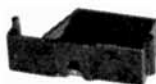
| Catalog Number | Used With | |
|----------------|-------------------------------------|-----------|
| | Contact | Tool |
| 107-0981 | MRAC Pin and Socket #14 & 16 | 107-0970 |
| 107-0977 | MRAC Pin and Socket #16 & 18 | |
| 107-0976 | MRAC Pin and Socket #20, 22, 24, 26 | |
| 107-43302 | SREC #20 & 24 | 107-43300 |
| 107-43303 | MRAC (Inner) Shielded | |
| 107-43304 | MRAC #20 22, 24, 26 | |

Crimping Tools



Bench Mount For Crimping Tool

Catalog Number **107-0962**
includes crimp depth blocks



Crimp Depth Blocks For Crimping Tools

Catalog Numbers **107-0965 - #20, 107-0966 - #16, 107-0967 - #12**



Spanner Wrench

Catalog Number **107-1102**
for use with **107-0903-2A** Crimping Tool