Rack & Panel

Rectangular = Miniature = Subminiature = Environmental = Removable Contacts

Table Of Contents

| Series | Description | Page |
|---------------------|--|---------|
| MRAC | Miniature Rectangular Connectors With Removable Contacts | 2 - 10 |
| XAC | External Miniature Rectangular Connectors With Removable Contacts | 11 - 20 |
| TMRAC | Heavy Duty, Industrial and Commercial, Miniature Rectangular Rack and Panel Connectors With Removable Contacts | 21 - 22 |
| TXAC | Heavy Duty, Industrial and Commercial, External Miniature Rectangular Rack and Panel Connector With Removable Contacts | 23 - 24 |
| MRA | Miniature Rectangular / #16 Contacts / .062" Dia. / 13 Amps | 25 - 33 |
| MRE | Miniature Rectangular / #20 Contacts / .040" Dia. / 7.5 Amps | 34 - 43 |
| XMRA and XMRE | External Miniature Rectangular / #16 Contacts / .062" Dia. / 13 Amps #20 Contacts / .040" Dia. / 7.5 Amps | 44 - 53 |
| SLE, SME and SRE | Sub Miniature / High Density Rectangular / .025" Dia. / 3 Amps .030" Dia. / 5 Amps ■ .040" Dia. / 7.5 Amps | 54 - 57 |
| SREC | Sub Miniature Rectangular Connector With Removable Contacts | 58 - 60 |
| 42 | Panel Mount Miniature / 22 AWG / .030" Dia. / 5 Amps | 61 - 64 |
| SRM | Sub Miniature Rectangular / #20 Contacts / .040" Dia. / 7.5 Amps | 65 - 70 |
| PM1 | High Voltage, Single Contact / #20 Contacts / .040" Dia. / 7.5 Amps | 71 |
| PM6 | High Voltage Miniature / #20 Contacts / .040" Dia. / 7.5 Amps | 72 |
| SM | Sub Miniature / #20 Contacts / 3 and 7.5 Amps | 73 - 74 |
| М | High Voltage Miniature / #20 Contacts / .040" Dia. / 7.5 Amps | 75 - 78 |
| JF | Miniature Side Mount / #20 Contacts / .040" Dia. / 7.5 Amps | 79 - 81 |
| JFA | Miniature Side Mount / #16 Contacts / .062" Dia. / 13 Amps | 82 |
| 100 | Removable Contacts | 83 - 91 |
| 107 | Tools and Accessories | 92 - 93 |

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

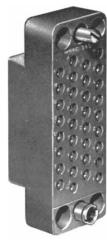
While the information in this publication is believed to be accurate and reliable, all data presented is subject to change without notice. Winchester Interconnect disclaims responsibility for any damages resulting from application or any incompleteness or inaccuracies in the information presented. Consult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

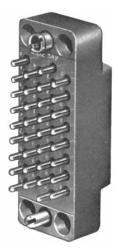


MRAC Series

- ■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!

Miniature Rectangular, Removable Contacts







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

No. of Contacts:

9, 14, 18, 20, 26, 34, 41, 42,

50, 66, 75, 104

Contacts:

Must be ordered separately. Select from crimp, solder, dip solder, shielded or Wire-Wrap termination contacts.

section.

Contact Identification:

See 100 Series contact

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.

Electrical Data: Meets high potential

performance of MIL-C-28748. The dielectric withstanding voltage is one minute electrification at 2000 VAC

(sea level).

MRAC Series: Standard glass Dielectric:

filled diallyl phthalate, per MIL-M-14, SDG-F, color gray.

Qualification: Military Versions are QPL'd to

M28748/3 and M28748/4.

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 |

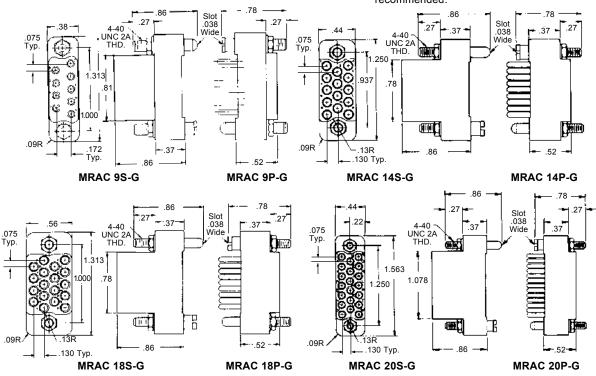


Outline

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

Drawings and corresponding part numbers show G type guide sockets. It is recommended that guides be used wherever

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



Physical Data

| Plug Code | | | o. of Wt. in Ozs. | | Plug Code | Recepticle Code | No. of Contacts | Wt. in Ozs. | |
|--------------|---------|----|-------------------|------|--------------|--------------------|--------------------|-------------|------|
| No. | No. | | Plug | Rec. | No. | No. | | Plug | Rec. |
| MRAC9P | MRAC9S | 9 | .15 | .17 | MRAC41 | MRAC41S | 41 | .5 | .7 |
| MRAC14P | MRAC14S | 14 | .17 | .2 | MRAC42P | MRAC42S | 42 | .5 | .7 |
| MRAC18P | MRAC18S | 18 | .17 | .2 | MRAC50P | MRAC50S | 50 | .6 | .85 |
| MRAC20P | MRAC20S | 20 | .17 | .25 | MRAC66P | MRAC66S | 66 | .7 | 1.05 |
| MRAC26P | MRAC26S | 26 | .42 | .67 | MRAC75P | MRAC75S | 75 | .9 | 1.3 |
| MRAC34P | MRAC34S | 34 | .42 | .67 | MRAC104P | MRAC104S | 104 | 1.2 | 1.78 |

Guide Sockets

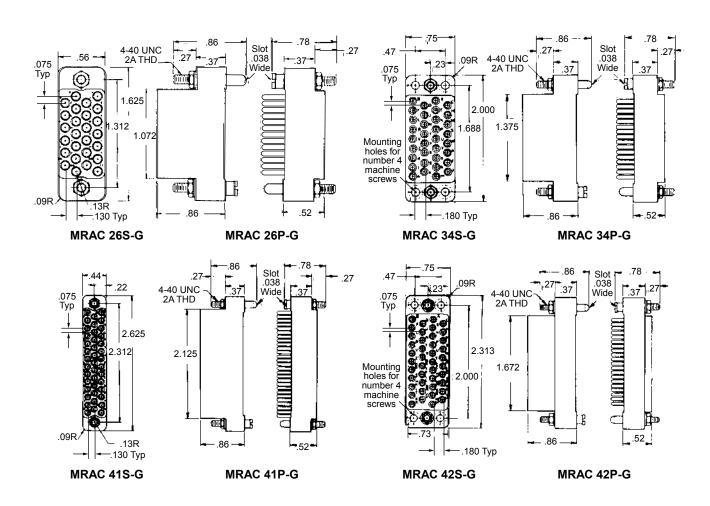
How To Order: To obtain "K" or "N" guides in place of the standard "G" type, substitute the desired socket style code letter ("K" or "N") for "G" in both the Plug and Receptacle Code Numbers.

| Guide Socket Code Letter | Actual Size Photo | |
|--------------------------------|---|---|
| G* | | |
| | For General Use Phosphor Bronze | |
| | | |
| K | For High Electrical Conductivity Beryllium Copper | Standard Guide Pin mates with all types Brass |
| M | ammit | |
| N* | For Extra Mechanical Strength Brass | |

*For passivated stainless steel add SS suffix

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.

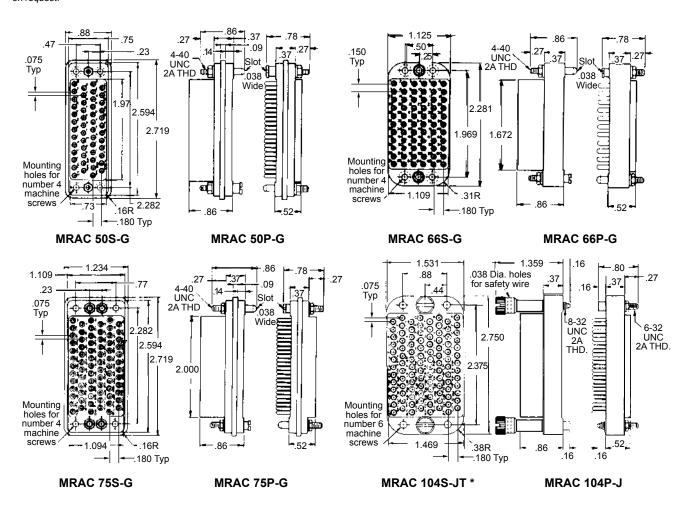
Mounting Note: Connectors MRAC 26, MRAC 20 and smaller, use guides for mounting in a hood or on a panel. Connectors MRAC 34, MRAC 42, MRAC 50, MRAC 66, and MRAC 75 use four #4 machine screws, in addition to guides, for mounting in a hood or on a panel. Guides are not recommended for use with MRAC 104.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

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.

Jackscrews & Jacksockets

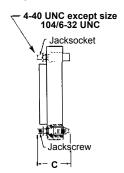
Miniature Rectangular, Removable Contacts

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

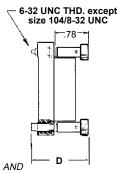
are the two fixed screws required to complete the locking action. When mated, the jackscrews may be locked with a safety wire through the hole in the self-locking pin (in the jackscrew shaft).

Outline

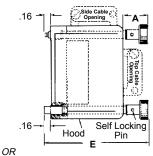
Dimensions are for reference only and are subject to change. Outline drawings on request.



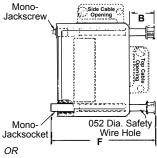
Connector with fixed Jackscrews Code designation: J



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



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



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

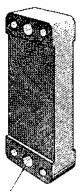
Dimensions

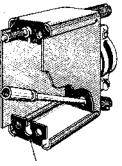
| Connector Size | Dimension A | | | | Dimension B | | | | | Dimension E | | | | Dimension F | | | | | | |
|-------------------|-------------|-----|-----|----------|-------------|-----|-----|-----|-----|-------------|------|------|------|-------------|------|------|------|------|------|------|
| Size | Н | H1 | Н8 | Н9 | H13 | Н | H1 | H8 | Н9 | С | D | Н | H1 | H8 | H9 | H13 | Н | H1 | H8 | H9 |
| MRAC 9 | _ | .59 | _ | _ | .59 | _ | _ | _ | _ | .80 | 1.31 | _ | 2.41 | _ | _ | 2.41 | | | _ | - 1 |
| MRAC 14 | - | .59 | _ | _ | .59 | _ | _ | _ | _ | .80 | 1.31 | _ | 2.41 | _ | _ | 2.41 | - | _ | _ | - 1 |
| 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.





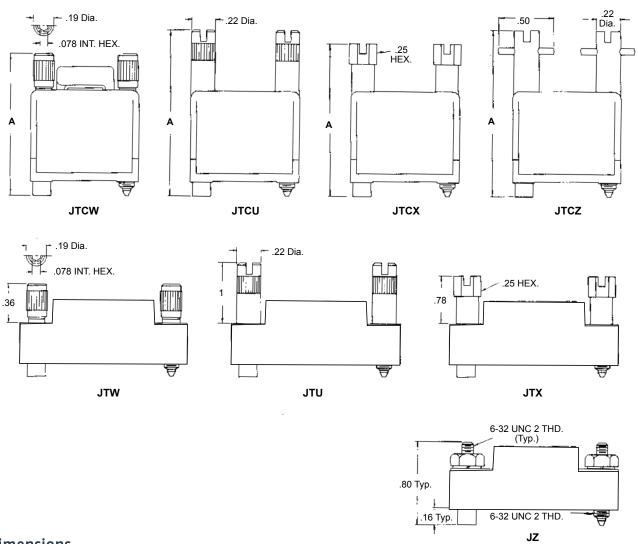
MONOJACKS ARE CAPTIVATED IN KEYHOLE SLOT OF HOOD AS SHOWN ABOVE. WHEN USING SHELLS, MONOJACKS ARE CAPTIVATED IN KEYHOLE OF SHELL AND CLEARANCE HOLES ARE PLACED IN HOODS.

MOLDINGS HAVE STRAIGHT THRU HOLES



Outline Jackscrews and Jacksockets

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



Dimensions

Hood Type

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.

| Size | 31ZE | | 71 | | | Type JTCW Size Type JTCX | | | | | Size | Size Ty | | pe JTCZ | | | | | | | | | |
|------|------|------|-------|------|------|--------------------------|-------------|------|------|------|------|-------------|------|---------|------|------|-------------|------|------|------|------|------|------|
| 0.20 | Н | H1 | H8 | Н9 | H13 | 0.20 | Н | H1 | H8 | H9 | H13 | 0.20 | Н | H1 | H8 | Н9 | H13 | OIZC | Н | H1 | H8 | H9 | H13 |
| | | Dime | nsion | Α | | | 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 | ı | 2.22 | - | ı | 2.22 | 14 | _ | 2.47 | _ | _ | 2.47 | 14 | ı | 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 | _ |

H-8 and H-13

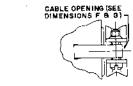
Cable Clamps

Miniature Rectangular, Removable Contacts

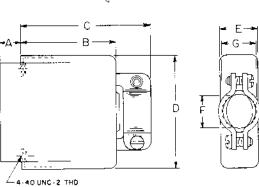
Outline Formed Aluminum Hoods

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

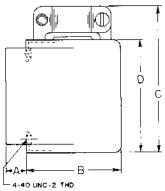
Hoods shown are MRE Hoods for use with MRAC Connectors

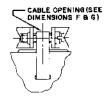


H-8 and H-13 Hoods are identical to H Hood except for cable clamp style and cable opening in the hood.









H-9 Cable Clamp
H-9 Hood is identical to

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

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. | | DI | MEN | SION | ıs | Cab Open | | Wt. | Fits |
|-----------|-----|------|------|------|------|-------------|-----|-----|-----------------|
| | Α | В | С | D | E | F | G | Oz. | Connector |
| 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 | | DI | MEN | SIOI | NS | Cab Oper | | Wt. | Fits |
|----------|-----|------|------|------|------|-------------|-----|-----|-----------------|
| No. | Α | В | С | D | E | F | G | Oz. | Connector |
| 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 | ı | .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) |







Vibration Locks

Lock Tabs (MRE-V shown)

Lever & Pivot Assemblies (MRE-VL shown)

| Nomen | Nomenclature | | | | | | | | |
|------------------------------|-------------------------|--|--|--|--|--|--|--|--|
| Lever & Pilot Assembly | Lock Tabs (See Note) | Used on Connectors | | | | | | | |
| 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

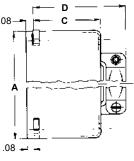
For MRA;

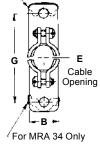
66:104

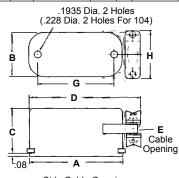
| Code No. | | DIM | ng | Wt. | Fits | | | | |
|-------------|------|------|------|------|-----------|---|-------|-----|------------------------|
| Ocac No. | Α | В | С | D | E | Н | G | UZ. | Connector |
| MRA 34H-491 | 2.08 | .83 | 1.17 | 1.59 | .66 x .75 | - | 1.688 | .6 | MRAC 34P MRAC 34S |
| MRA 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. | | DIM | ENSI | ONS | - Side Op | enin | | Wt. | |
|--------------|------|------|------|------|-----------|------|-------|-----|------------------------|
| 5646 | Α | В | ပ | D | E | Н | G | UZ. | Connector |
| MRA 34H9-491 | 2.08 | .83 | 1.17 | 2.59 | .64 x .75 | 1.06 | 1.688 | .6 | MRAC 34P MRAC 34S |
| MRA 66H9 | | | | | .84 Dia. | | | | 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.



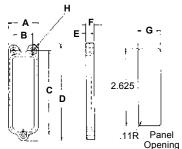




Dimensions / Outline

Top Cable Opening

e Opening Side Cable Opening



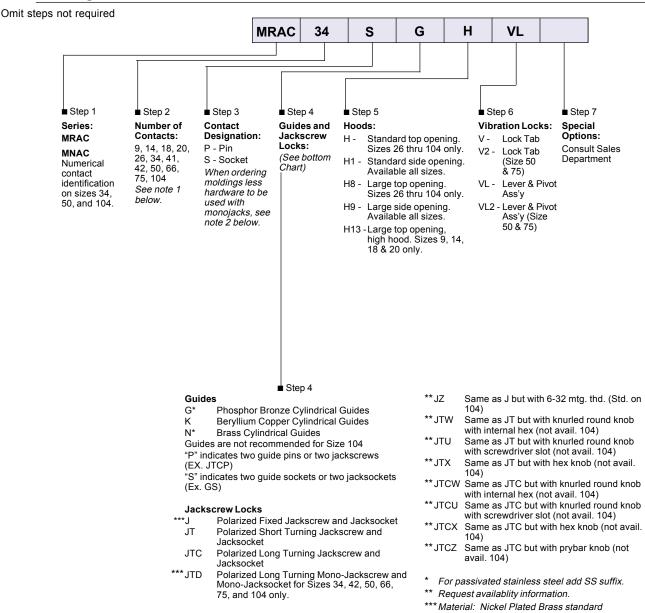
| | • | • |
|---------------------------|--------|---|
| MRAC 50 and MRAC 75 conn | ectors | |
| use the standard MRE 50 a | and | |
| MRE 75 mounting bracke | ts. | |

| Code No. | | DIMENSIONS A B C D E F G H | | | | | | | | | | |
|----------|------|----------------------------|-------|-------|-----|-----|------|---|-----|--|--|--|
| | Α | В | С | D E F | | | | Н | Oz. | | | |
| 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 | | | |



Ordering Information

Miniature Rectangular, Removable Contacts



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

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).







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

No. of

9, 14, 18, 20, 26, 34, 42, 50, 66, 75, 104 Contacts:

Contacts: Contacts must be ordered

separately. Select from crimp, solder, dip solder, shielded or wire wrap

terminations.

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.

Dielectric: Diallyl Phthalate, MIL-M-14, Type SDG-F, Color Gray

Polarization: Seven positions available for

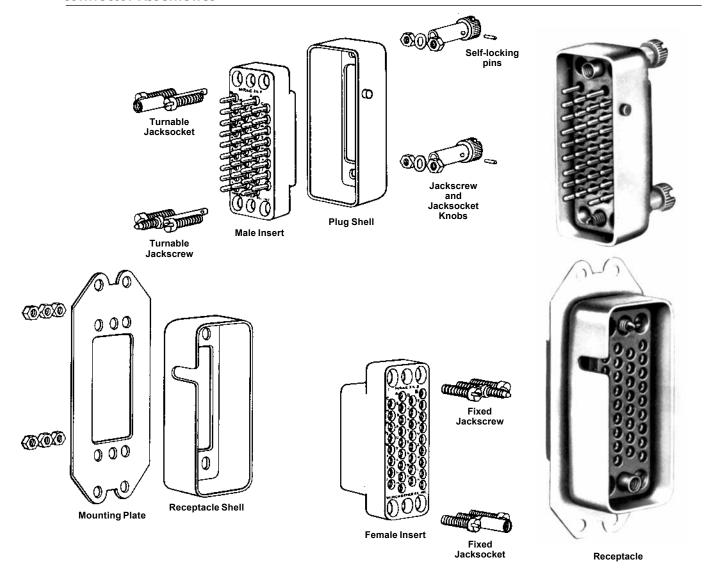
pin and slot polarization on shells. Additional polarization can be provided with various arrangements of jackscrews and guides.

Shells, formed and drawn Accessories:

hoods, mounting plates, jackscrews and jacksockets.

| 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 | | |

Connector Assemblies



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.

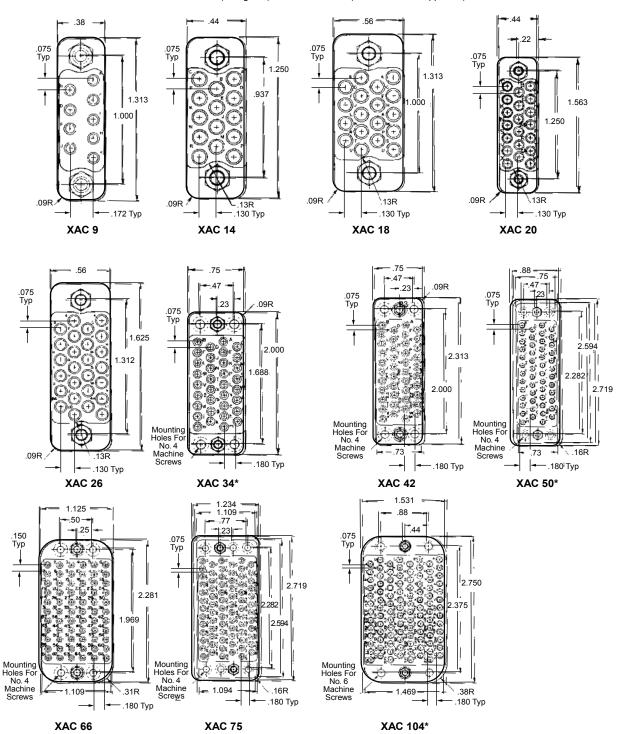
Accessories: Those components such as hoods and mounting plates which are attachable to a plug or receptacle to facilitate mounting and/or handling of the connector, and to prevent inadvertent cross-mating.



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.)



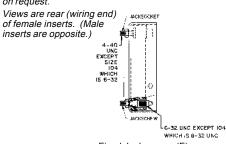
*For numerical contact identification instead of alphabetical, order XNAC**P or S available in sizes 34, 50, and 104.

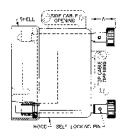
Sizes 66 and 75 have numerical contact identification as standard.

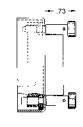
The spacing, arrangement, and identification of contacts of the XAC inserts are the same as those found on the Series MRAC removable contact connectors for the same number of contacts.

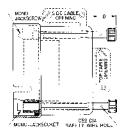
Jackscrew & Jacksockets

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









Fixed Jackscrews (F)

Long Turning Jackscrews (C) Used With Hoods

Short Turning Jackscrews (M) Used Only Without Hoods

Monojacks (D) Used With Hoods

Specifications

Turnable jackscrew-jacksocket combination (M, C, or D) assembles 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-peice 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 Jacksocket } Fixed | F | 0.15 | Nickel Plated Brass | | | | | |
| Jackscrew Short Jacksocket Turnable | М | 0.30 | Stainless Steel with Passivating Dip | | | | | |
| Jackscrew Long Jacksocket Turnable | С | 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

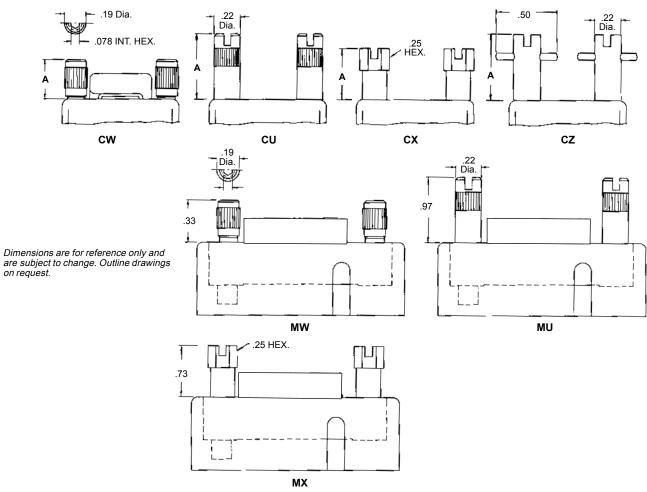
Standard Knobs - Extension Beyond Hood

| | Dimension A | | | | | | | | | | Dimension B | | | | | | |
|------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------|-----|-----|-----|-----|-----|-----|
| XAC | 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 | ı | ı | - | .38 | - | .38 |
| 0800 | _ | _ | _ | - | _ | .58 | _ | _ | .64 | _ | .52 | - | 1 | _ | .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

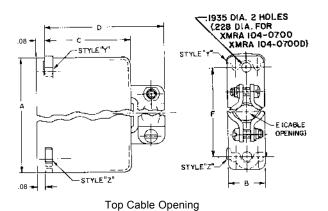
All jackscrews and sockets are stainless steel, passivated (except F & D which are nickel plated brass). All knobs are aluminum, anodized except MW and CW which are stainless steel, passivated.

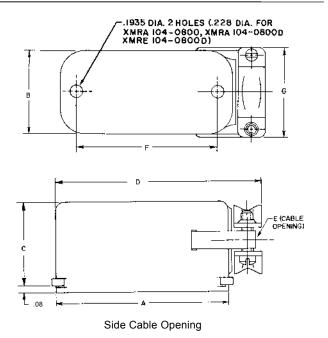
| C: | | | Но | ods | | | C: | | | Но | ods | | | | |
|------|------|-------|----------|----------|------|------|-----------------------|-----------------------|------|-------|-------|------|------|--|--|
| Size | 0300 | 0400 | 0300X | 0400X | 0700 | 0800 | Size | 0300 | 0400 | 0300X | 0400X | 0700 | 0800 | | |
| | | | | Type C | | | | 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 | - | _ | _ | 1 | .61 | .61 | | |
| 75 | .33 | .33 | .33 | .33 | - | - | 75 | .45 | .45 | .45 | .45 | _ | _ | | |
| | | Dimen | sion A - | - Type C | U | | 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

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

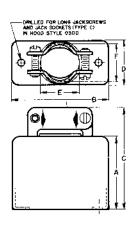
Hoods - Top Cable Opening

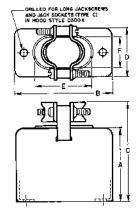
| ForUse With | Hood Part No. (If ordered | | DIMENSIONS | | | | | | | |
|---------------------------|---------------------------------|------|------------|------|------|---------|-------|--|--|--|
| | separately) | Α | В | С | D | Е | F | | | |
| Type C Jack | XMRA 34-0700 | 2.09 | .84 | 1.17 | 1.59 | .66x.75 | 1.688 | | | |
| Sockets and Jackscrews | XMRA 66-0700 | 2.38 | 1.22 | 1.17 | 1.69 | 1.03D | 1.969 | | | |
| duckscrews | XMRA 104-0700 | 2.84 | 1.63 | 2.23 | 2.75 | 1.19D | 2.375 | | | |
| | | | | | | | | | | |
| Type D Jack | XMRA 34-0700D | 2.09 | .84 | 1.17 | 1.59 | .66x.75 | 1.688 | | | |
| Sockets and | XMRA 66-0700D | 2.38 | 1.22 | 1.17 | 1.69 | 1.03D | 1.969 | | | |
| Jackscrews | XMRA 104-0700D | 2.84 | 1.63 | 2.23 | 2.75 | 1.19D | 2.375 | | | |
| | | | | | | | | | | |
| T F | XMRA 34-0900 | 2.09 | .84 | 1.17 | 1.59 | .66x.75 | _ | | | |
| Type F Jackscrews | XMRA 66-0900 | 2.38 | 1.22 | 1.17 | 1.69 | 1.03D | _ | | | |
| Guonocieno | XMRA 104-0900 | 2.84 | 1.63 | 2.23 | 2.75 | 1.19D | - | | | |

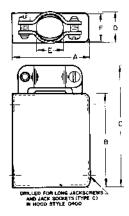


Outline Hoods-Formed Aluminum

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 | For use with Type C Jacksockets & Jackscrews | For use with Fixed Jackscrews* | | Dimensions | | | Ca Ope | Wt. Oz. (Inc. 2 Cable | |
|----------------|--|--------------------------------------|------|------------|------|------|-----------|--------------------------------|--------------------------|
| Monojacks | Hood Part No. (If ordered separately) | | Α | A B C D | | D | E Dia. | F Dia. | Clamps and Screws) |
| | 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 |

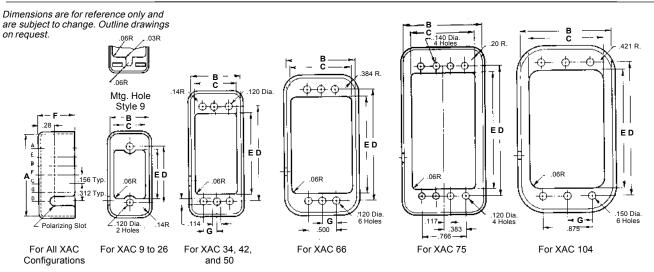
^{*} For use with G, K, or N guides, eliminate letter "J" from part number

Hoods - Side Cable Opening

| For use with | For use with Type C Jacksockets & Jackscrews | For use with Fixed Jackscrews* | | Dime | nsions | | Ca Ope | Wt. Oz. (Inc. 2 Cable Clamps | |
|----------------|---|--------------------------------------|------|------|--------|------|-----------|--|----------------|
| Monojacks | Hood Part No. (If ordered separately) | | Α | В | С | D | E Dia. | F Dia. | and Screws) |
| | 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 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.

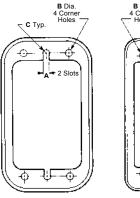
TYPICAL SHELLS FOR MONOJACKS STYLE No. 4000

Shells are .040 in. thick.

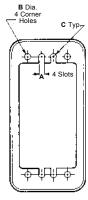
Shells are aluminum, anodized for protection against corrosion. Either shell style - plug or receptacle - may be used to house the female insert, thus allowing the "live" socket contacts to be cable or panel mounted, as desired. Shells also provide a means by which connector polarization is accomplished - 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.

| For Connector Size | Α | В | С |
|--------------------|-----|------|------|
| 34, 42, 50, 66, 75 | .11 | .120 | .06R |
| 104 | .14 | .150 | .07R |

| Shell Part No. | | | DIM | MENSI | ONS | | | Wt. |
|----------------|------|------|------|-------|------|-----|------|------|
| separately) | Α | В | С | D | Е | F | G | Oz. |
| 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 | | | | | | | | |
| XMRE 34-4*000 | 2.14 | .89 | .75 | 1.687 | 1.44 | .66 | .234 | 0.25 |
| XMRE 42-2*000 | | | | | | | | |
| XMRE 42-4*000 | 2.45 | .89 | .75 | 2.000 | 1.75 | .66 | .234 | 0.28 |
| XMRE 50-2*000 | | | | | | | | |
| 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 | 2.42 | 1.27 | 1.13 | 1.969 | 1.72 | .66 | .250 | 0.28 |
| XMRE 75-2*000 | | | | | | | | |
| XMRE 75-4*000 | 2.86 | 1.38 | 1.11 | 2.282 | 2.03 | .66 | - | 0.32 |
| XMRA 104-2*000 | | | | | | | | |
| XMRA 104-4*000 | 2.91 | 1.69 | 1.48 | 2.375 | 2.13 | .66 | .437 | 0.30 |



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



For XAC 75 Configuration

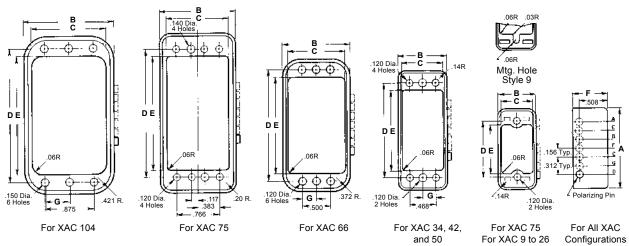


Receptacle Shell Style No. 2000 Shells are .040 in, thick.



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.

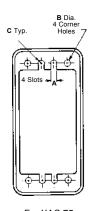
Stainless steel shells available for 66 and 104 sizes. Dimensions vary from those shown for aluminum shells. Check sales for availability and dimensions on all sizes.

| Shell Part No. | | | DIN | /ENSI | ONS | | | Wt. |
|----------------|------|------|------|-------|------|-----|------|------|
| separately) | Α | В | С | D | Е | F | G | Oz. |
| 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 |
| 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 |

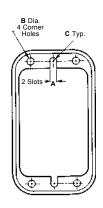
TYPICAL SHELLS FOR MONOJACKS STYLE No. 3000

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 | Α | В | С |
|--------------------|-----|------|------|
| 34, 42, 50, 66, 75 | .11 | .120 | .06R |
| 104 | .14 | .150 | .07R |



For XAC 75 Configuration



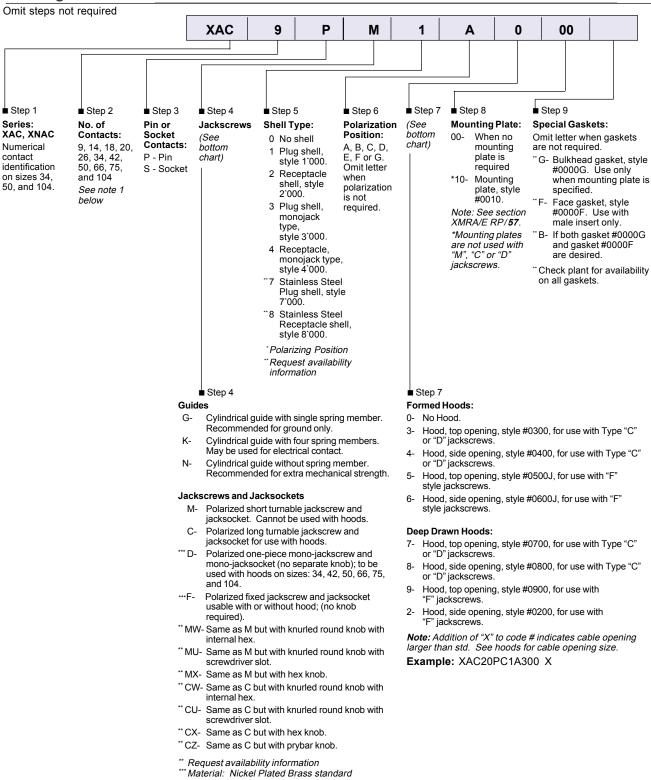
For XAC 34, 42, 50, 66, and 104 Configurations



Plug Shell Style No. 1000 Shells are .040 in. thick.



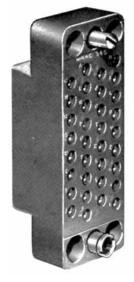
Ordering Informations

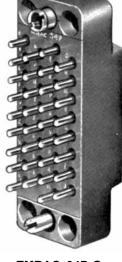


Note: 1. Contacts are ordered separately. See 100 Series contact section of Rack & Panel



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







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.

TMRAC 34S-G

TMRAC 34P-G

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).

Insulation

Resistance: 500V

Thermal Shock: -55°F to +150°F

Hoods: Anodized aluminum. May be

applied on plug or receptable. Both top and side opening

hoods available.

Gold plated guides provide Polarization: positive polorization.

Polarized nickel-plated brass and/or passivated stainless steel jackscrews with anodized aluminum knobs

are available.

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.

Contact

Identification: Standard contact identification

is alphabetical.

.040" diameter and .062" Sizes:

diameter contacts in 7.5-amp and 13-amp current ratings.

Termination

Types:

Crimp, dip-solder, solder removable in .040" and .062" diameter. Wire Wrap tails and stabilizing bushings for .025" and .045" square.

Current Rating: 7.5 amps maximum for

.040" contacts.

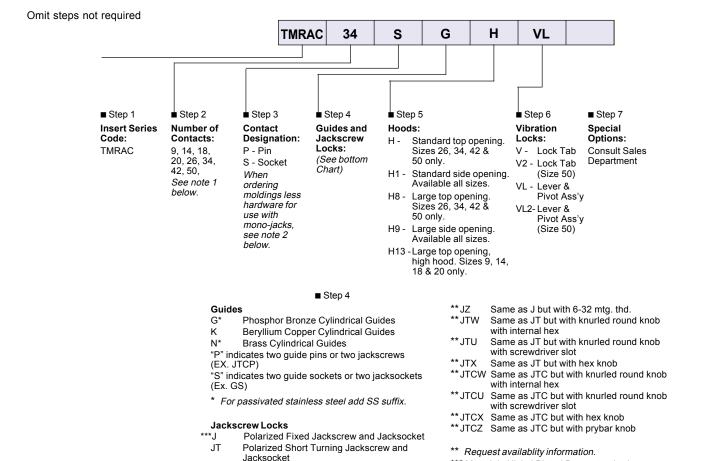
13 amps maximum for .062" contacts.

CSA Certified File No. LR34182

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



Ordering Information



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

*** Material: Nickel Plated Brass standard

Dimensions

All dimensions for TMRAC housings are the same as MRAC housings. All hoods, hardware, and accesories 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.

Polarized Long Turning Jackscrew and

Polarized Long Turning Mono-Jackscrew and Mono-Jacksocket for Sizes 34, 42, and

JTC

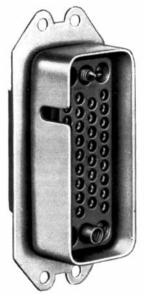
***JTD

Jacksocket

50 only



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 thermoplastic 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).

Insulation Resistance:

500V

Thermal Shock: -55°F to +150°F

Anodized aluminum. May be Hoods:

applied on plug or receptable. Both top and side

opening hoods available.

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.

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.

Contact

Identification: Standard contact identification

is alphabetical.

.040" diameter and .062" Sizes:

diameter contacts in 7.5-amp and 13-amp current ratings.

Contact Resistance:

@ 7.5 amps, 14 millivolts max. @ 13 amps, 10 millivolts max.

Termination Types:

Crimp, dip-solder, solder removable in .040" and .062" diameter. Wire Wrap tails and

stabilizing bushings for .025" and .045" square.

Current Rating: 7.5 amps maximum for .040" contacts.

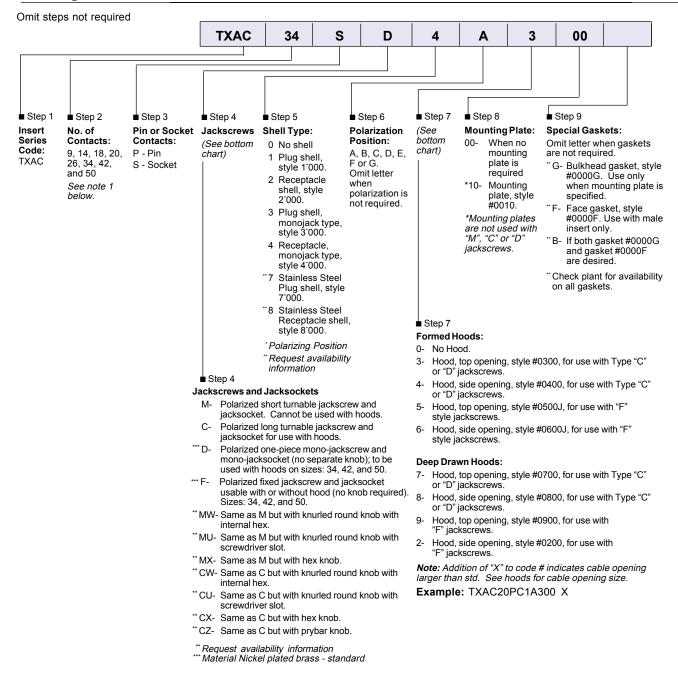
> 13 amps maximum for .062" contacts.



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



Ordering Infomation



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 accesories 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

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

Hood

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

Number of

contacts: 9, 14, 20, 34, 41, 42, 50, 50-

8, 66, 75, 104

Pin Contacts: .062 diameter, gold plated

brass

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.

Dielectric:

Gray glass filled diallyl

phthalate, per MIL-M-14,

SDG-F.

Polarization: Gold plated guides provide

polarization. Polarized nickelplated brass and/or passivated stainless steel jackscrews with anodized aluminum knobs

are available.

Anodized aluminum. May be Hoods:

applied to either plug or receptacle. Both top and side opening hoods available.







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 | |
| К | The "K" guide socket is an excellent electrical conductor. Its extra spring-tension provides a high normal force uniformily 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 | Standard Guide Pin mates with all types Brass |
| 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 | DIASS |

^{*} For passivated stainless steel add SS suffix

Physical Data

| WEIGHT | | | N | UMB | ER (| OF C | СОМТ | ACTS | 3 | | |
|------------|----|----|----|-----|------|------|------|------|-----|-----|-----|
| IN OZ. | 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

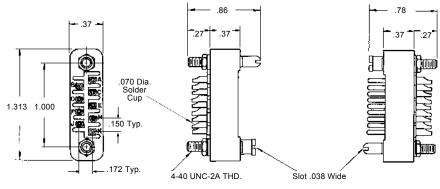
| CONTACTS | CURRENT RATING | PIN DIAMETER | MAX. WIRE SIZE | SOLDER CUP DIA |
|----------|-------------------|-----------------|-------------------|-------------------|
| 8 | 20 amps | .093 | #12 AWG | .106 D |
| .50 | 13 amps | .062 | #16 AWG | .070 D |



Outline

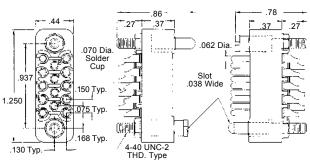
Dimensions are for reference only and are subject to change. Outline drawings

Drawings and corresponding part numbers show G type guide sockets.



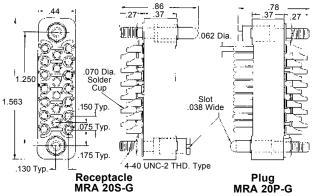
Receptacle MRA 9S-G

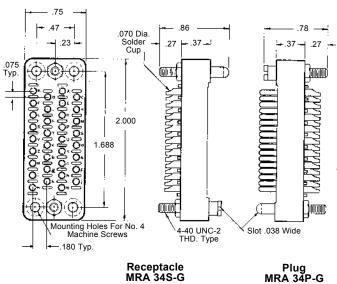
Plug MRA 9P-G



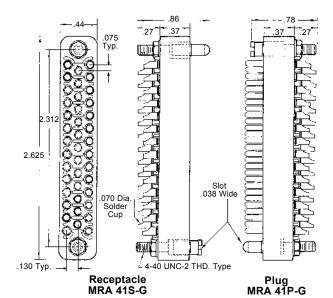
Receptacle MRA 14S-G

Plug MRA 14P-G





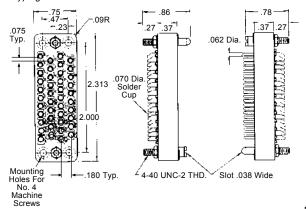
Plug MRA 34P-G

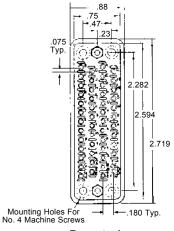


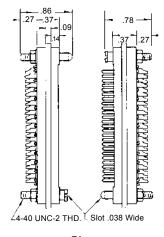
Outline

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**

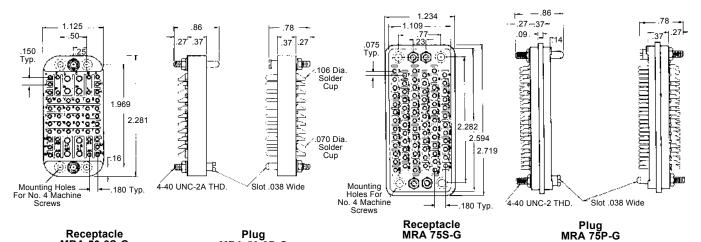
Plug MRA 42P-G

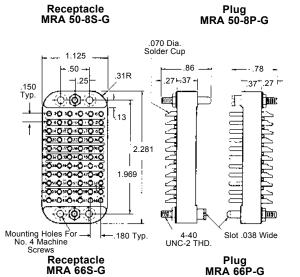
Plug

MRA 66P-G

Receptacle MRA 50S-G

Plug MRA 50P-G





_ 1.531 ---8-32 UNC-2A Thd-.78 560 **⊢**560 -37 .075 Typ. .37 2.750 .038 Dia. hole for safety wire 2.375 .98 -.180 Typ. 4-40 .27 UNC-2 THD.

Receptacle

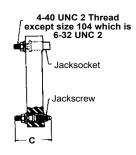
MRA 104S-J

Plug MRA 104P-JT

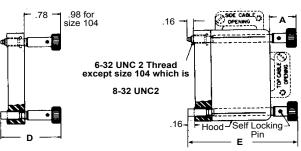
Polarized jackscrews give the ease and assurance of threaded positive coupling. The actuating side consists of two turnable screws, one male and one female, each with knurled and slotted knobs. On the mating half are the two fixed screws required to complete the locking action. When mated, the jackscrews 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.

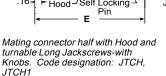
Jackscrews & Jacksockets

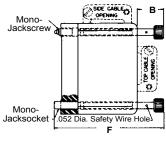


Connector with fixed Jackscrews. Code designation: J



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





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

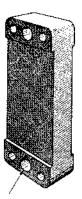
Dimensions

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

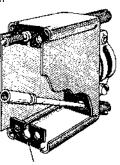
| Connec- | Di | men | sion | A | Dimension B | | | Dimen | Dimension E | | | | Dimension F | | | | | |
|----------|-----|-----|------|-----|-------------|-----|-----|-------|-------------|------|------|------|-------------|------|------|------|------|------|
| tor Size | Н | H1 | H8 | H9 | Н | H1 | H8 | Н9 | С | D | Н | H1 | H8 | H9 | Н | 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

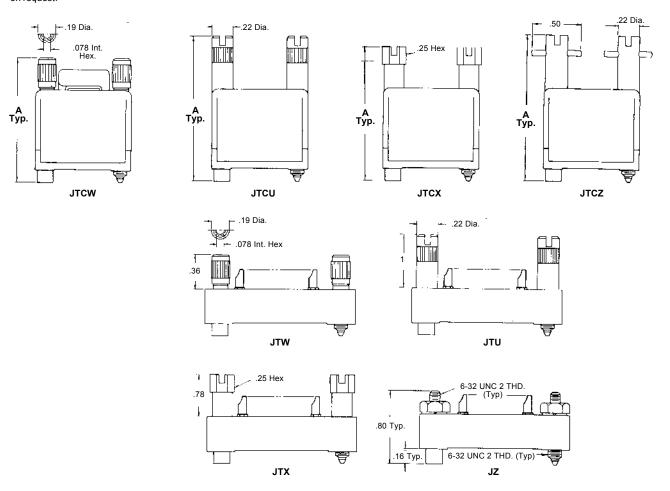


MONOJACKS ARE CAPTIVATED IN KEYHOLE SLOT OF HOOD AS SHOWN ABOVE. WHEN USING SHELLS, MONOJACKS ARE CAPTIVATED IN KEYHOLE OF SHELL AND CLEARANCE HOLES ARE PLACED IN HOODS.



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.

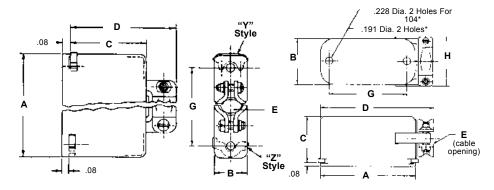
Hood Type

| Size | | Туре | JTCW | | Size | Type JTCU Size | | Size | | Туре | JTCX | | Size | | Type | JTCZ | | | |
|------|------|--------|------|------|------|----------------|-------|-------|------|------|------|-------|-------|------|-------------|------|------|------|------|
| OIZC | Н | H1 | H8 | H9 | 0120 | Н | H1 | H8 | H9 | OIZC | Н | H1 | H8 | H9 | 0120 | Н | H1 | H8 | H9 |
| | D | imensi | on A | | | D | imens | ion A | | | D | imens | ion A | | Dimension A | | | | |
| 9 | 1 | 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 | 1 | 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

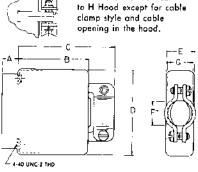
Side Cable Opening

| Catalog | | DIME | - | Wt. | Fits | Style | | | | |
|-------------|------|------|------|------|-----------|-------|-------|-----|------------------------|-----|
| No. | Α | В | С | D | E | F | G | Oz. | Connector | - |
| 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" |

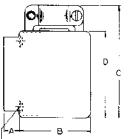
| Catalog | | D | IMEN | SIONS | - SIDE C | PENI | NG | Wt. | Fits | Style |
|--------------|------|------|------|-------|-----------|------|-------|-----|------------------------|-------|
| No. | Α | В | С | D | E | Н | G | Oz. | Connector | |
| MRA 34H9-491 | 2.09 | .84 | 1.17 | 1.59 | .64 x .75 | 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)

| | | | | | | | | | 9/ |
|-----------|-----|------|-------|------|------|------------|------|-----|-----------------|
| Code No. | | Din | nensi | ons | | Cal Ope | | Wt. | Fits |
| | Α | В | C | D | Е | F | G | Oz. | Connector |
| 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)

| | | | | | _ • | _ • | | | <u> </u> |
|-----------|-----|------|-------|------|------|-------------|-----|-----|-----------------|
| Code No. | | Dim | nensi | ons | | Cab Oper | | Wt. | Fits |
| | Α | В | С | D | Е | F | G | Oz. | Connector |
| 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

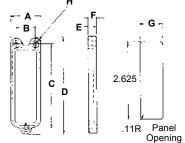
are provided for safety wiring. Vibration locks are available separately for assembly on connectors now in service. Each code number indicates two units: two levers with two pivots, and two lock tabs.

*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 | | | | | | | | | | | |
|----------|------|------------|-------|------|-----|-----|------|---|-----|--|--|--|--|
| | Α | В | С | D | E | F | G | Н | Oz. | | | | |
| MRE 50B | 1.06 | .688 | 3.031 | 3.44 | .13 | .28 | | .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

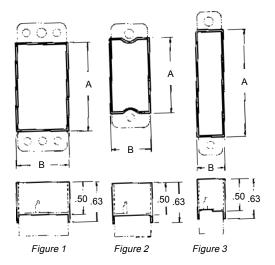
Dimensions / Outline Pre-Shaped Nylon Potting Forms

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

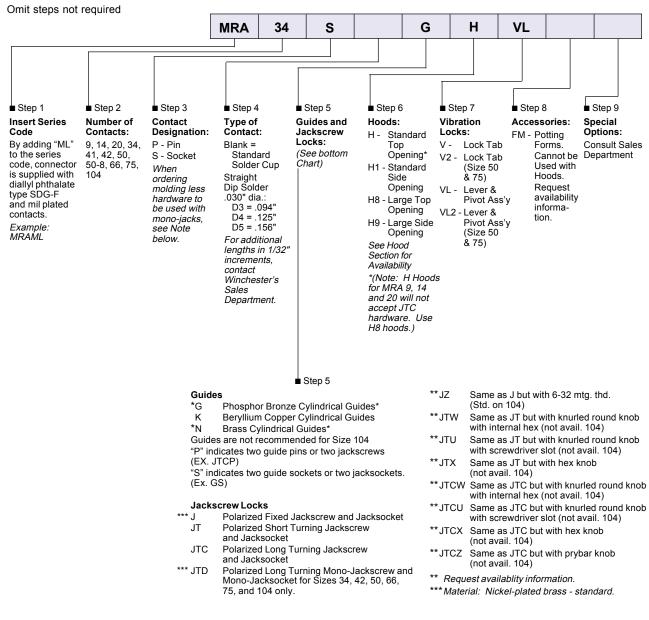
connector after potting. Because of floating contacts, connector halves should always be engaged during the potting operation to preserve contact alignment.

| Potting Form | Fig. | Dimensions | | | |
|--------------|------|------------|------|--|--|
| Code No. | | Α | В | | |
| 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



* 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).

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

No. of

Contacts: 7, 8, 9, 11, 14, 18, 20, 21, 26, 34, 41, 42, 50, 75, 104

.040 dia., gold plated brass

Pin Contacts: Socket

Contacts: **Termination**

Phosphor bronze plated gold.

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 volts

Dielectric: Brown mineral filled diallyl

phthalate. Also available in gray glass filled diallyl phthalate, per MIL-M-14,

SDG-F.

Polarization: Gold plated guides provide

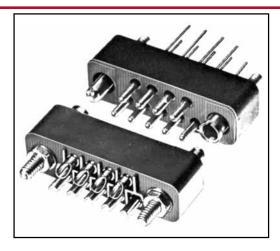
positive polarization. Polarized nickel-plated brass and/or passivated stainless steel jackscrews with anodized

aluminum knobs are available.

Hoods: Anodized aluminum. May be

applied to either plug or receptacle. Both top and side openings are available.





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 | |
| К | The "K" guide socket is an excellent electrical conductor. Its extra spring-tension provides a high normal force uniformily 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 | Standard Guide Pin mates Wasse |
| 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 | Brass |

^{*} For passivated stainless steel add SS suffix

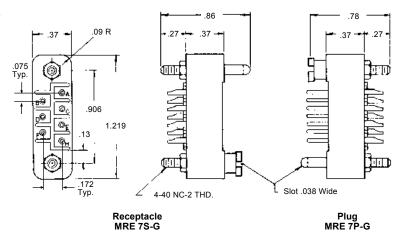
Physical Data

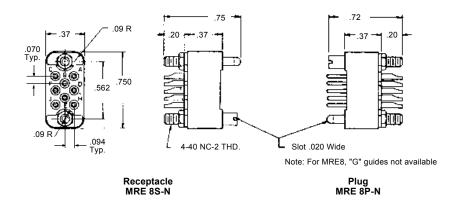
HOW TO ORDER: To obtain "K" or "N" guides in place of the standard "G" type, substitute the desired socket style code letter ("K" or "N") for "G" in both the Plug and Receptacle Code Numbers. (See Code Numbers in table at right.

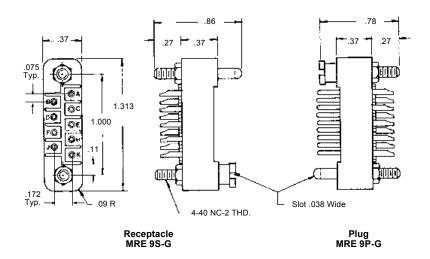
| | Plug | Recept. | No. Standard | No. Standard Contacts, | Weight Oz. | Plug | Recept. | No. Standard | No. Standard Contacts. | Weight Oz. | | | |
|-----------------------------|---------------------------------------|---------------------------------------|--|--|------------|------|-----------------------------|---------------------------------------|---------------------------------------|--|-----------------------|-----|-----|
| Total No. of Contacts | Winchester Electronics Code No. | Winchester Electronics Code No. | Contacts, 7.5 Amps (.048 dia. solder cup for #20 AWG) | 10 Amps (.052 dia. solder cup for #18 AWG) | | _ | Total No. of Contacts | Winchester Electronics Code No. | Winchester Electronics Code No. | Contacts, 7.5 Amps (.048 dia. solder cup for #20 AWG) | 10 Amps (.052 dia. | | |
| 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 | MRE14P-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

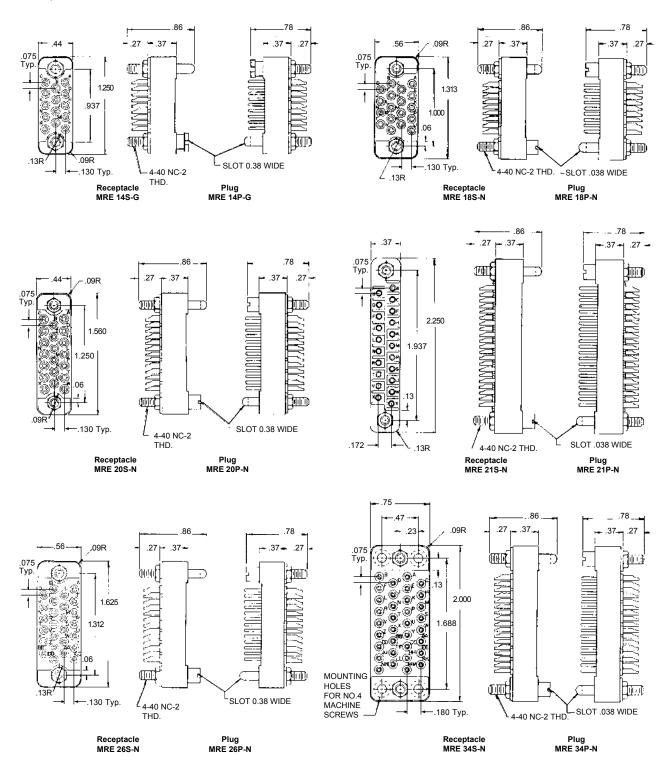
Dimensions are for reference only and are subject to change. Outline drawings on request.



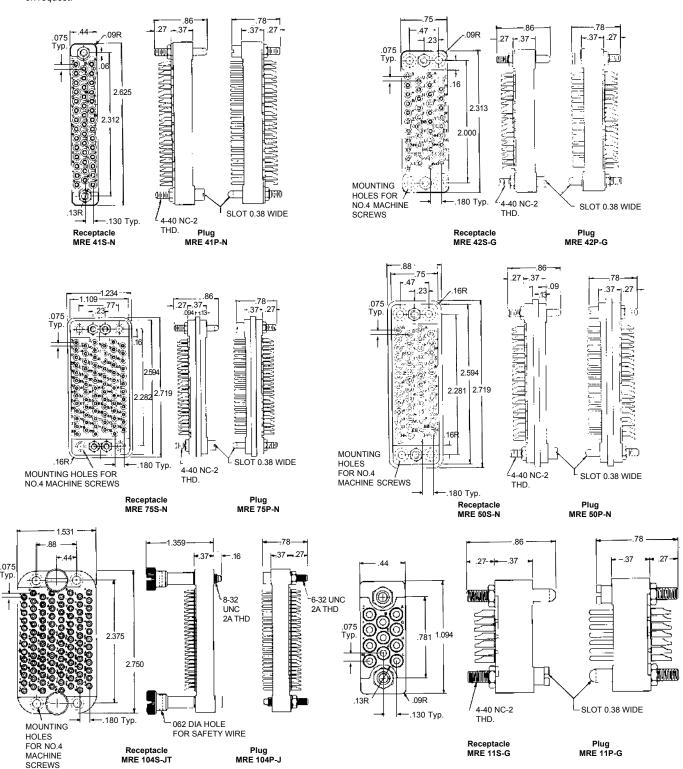




Dimensions are for reference only and are subject to change. Outline drawings on request.



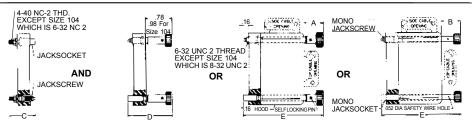
Dimensions are for reference only and are subject to change. Outline drawings on request.



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).

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 Jackscrewswith Knobs. Code designation: JTCH, JTCH1

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

Dimensions

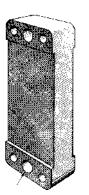
Dimensions are for reference only and are subject to change. Outline drawings on request.

| Connec- | Di | men | sion | Α | Di | men | sion | В | Dimen | Dimen | D | imen | sion | Е | Dii | mens | ion F | = |
|----------|-----|-----|------|-----|-----|-----|------|-----|-------|-------|------|------|------|------|------|------|-------|------|
| tor Size | Н | H1 | H8 | Н9 | Н | H1 | H8 | Н9 | C | D | Н | H1 | H8 | H9 | Н | 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 | - | - | - | - | ı | - | .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 |

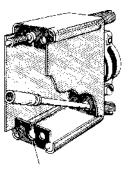
New Monojacks Assemble and Disassemble With Remarkable Ease and Speed

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.



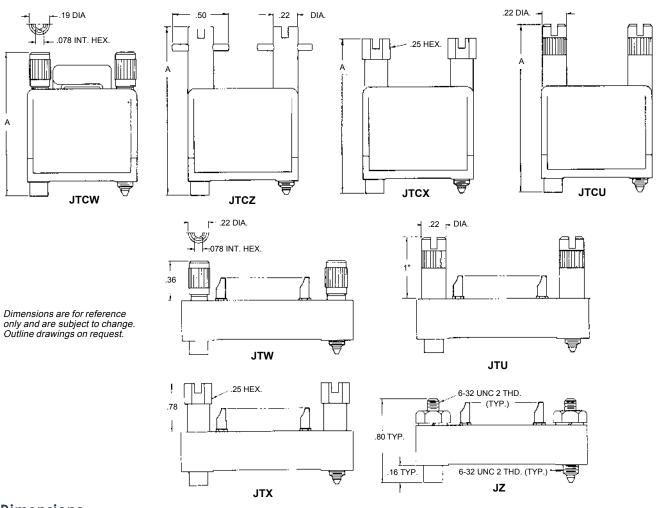
MOLDINGS HAVE STRAIGHT THRU HOLES



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

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.

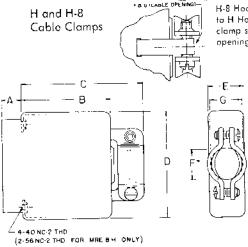
Hood Type

| Size | | Type | JTCW | | Size | | Type | JTCU | | Size | | Type | JTCX | | Size | | Type | JTCZ | |
|------|------|-------|-------|------|------|------|-------|-------|------|------|------|-------|-------|------|------|------|--------|------|------|
| 0126 | Н | H1 | H8 | Н9 | OIZE | Н | H1 | H8 | H9 | OIZE | Н | H1 | H8 | Н9 | Oize | Н | H1 | H8 | H9 |
| | D | imens | ion A | | | D | imens | ion A | | | С | imens | ion A | | | D | imensi | on 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 |

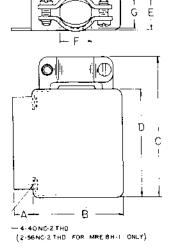


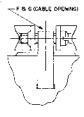
Outline Hoods-Formed Aluminum

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. | | Din | nensi | ons | | Cab Open | | | Fits |
|-----------|-----|------|-------|------|------|-------------|-----|-----|-----------------|
| | Α | В | С | D | E | F | G | Oz. | Connector |
| 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 | 1.8 | 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 | FC | R DI | MENSI | ONS | 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. | | Dim | nensi | ons | | Cab Oper | | Wt. | Fits |
|-----------|-----|--------|-------|------|------|-------------|------|-----|-----------------|
| | Α | В | С | D | Е | F | G | Oz. | Connector |
| 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 | FC | OR DIN | /ENSI | IONS | SEE | PAGE | RP/3 | 36 | |



Lock Tabs (MRE-V shown)

Lever & Pivot Assemblies (MRE-VL shown)

Hoods - Locking

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
 MRE 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

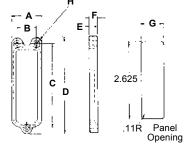
are provided for safety wiring. Vibration locks are available separately for assembly on connectors now in service. Each code number indicates two units: two levers with two pivots, and two lock tabs.

*US Patent Number 2760174

Note: When panel mounting the lock-tab half of a 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. | | | | DIN | ΛEΝ | SIO | NS | | Wt. |
|----------|------|-------|-------|------|-----|-----|------|---|-----|
| | Α | В | С | D | Е | F | G | Н | Oz. |
| 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

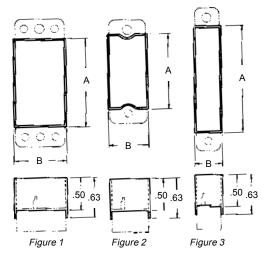
Dimensions / Outline Pre-Shaped Nylon Potting Forms

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

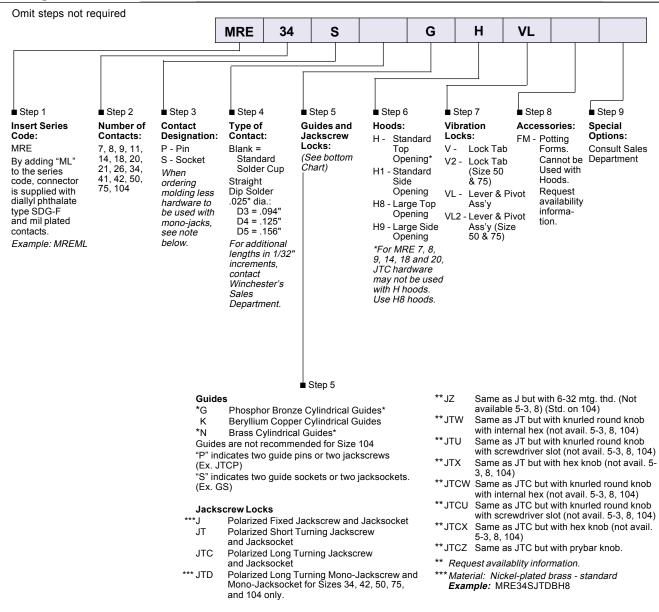
the connector after potting. Because of floating contacts, connector halves should always be engaged during the potting operation to preserve contact alignment.

| Potting Form | Fig. | Dimer | nsions |
|--------------|------|-------|--------|
| Code No. | • | Α | В |
| 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



^{*} 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.

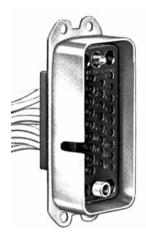
Note: When ordering hoods, hardware and connectors separately for use with JTD Monojacks, connectors must be ordered as follows:

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 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

No. of

XMRA - 9, 14, 20, 34, 42, 50, 50-8, 66, 75, 104 XMRE - 9, 14, 18, 20, 26, 34, Contacts:

42, 50, 75, 104

Pin Contacts: XMRA - .062 diameter, gold

plated brass

XMRE - .040 diameter, gold

plated brass

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.

Dielectric: Brown mineral filled diallyl

phthalate. Also available in gray glass filled diallyl phthalate, per MIL-M-14,

SDG-F.

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.

Anodized Aluminum. May be Hoods:

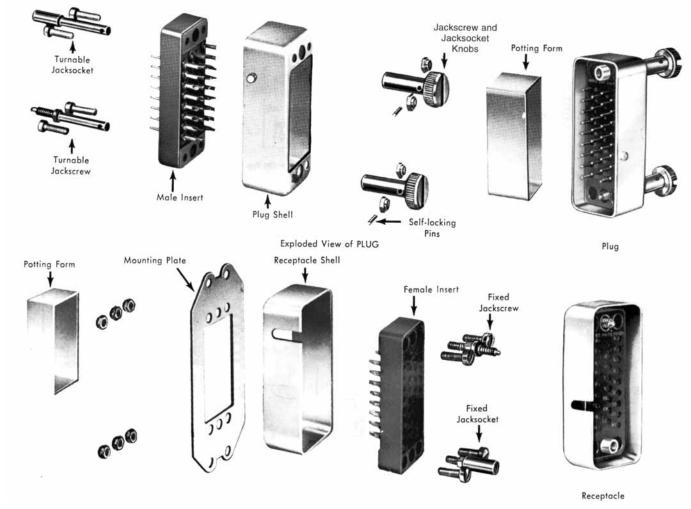
applied to both plug and receptacles. Both top and side opening hoods are

available.



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.

Femal 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.

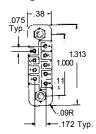
Potting Form: A plastic mold used to retain and shape the sealing compound during the moisture-proofing, or potting operation.

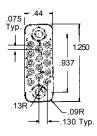
Potting: A method of moisture-proofing the back of a plug or receptacle and the soldered wire connections by injecting a free flowing sealing compound into a pre-shaped form and allowing it to set. The result is a homogeneous mass, chemically bonded to the back of the insert and around the soldered connections.

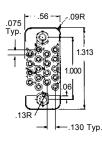
Accessories: Those components such as hoods, mounting plates and finger grips which are attachable to a plug or receptacle to facilitate mounting and/or handling of the connector.

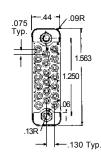
Dimensions are for reference only and are subject to change. Outline drawings on request

Contact Arrangements







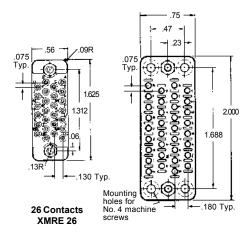


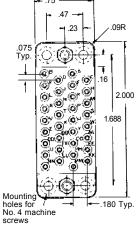
9 Contacts XMRE 9 or XMRA9

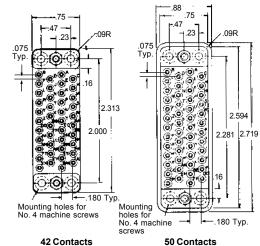
14 Contacts XMRE 14 or XMRA 14

18 Contacts XMRE 18

20 Contacts XMRE 20 Or XMRA 20





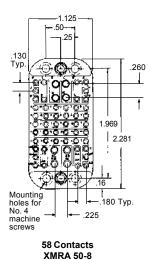


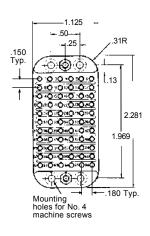
34 Contacts XMRA 34

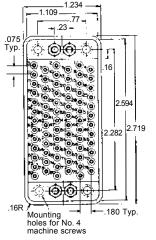
34 Contacts XMRE 34

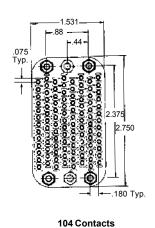
42 Contacts XMRE 42 or XMRA 42

XMRE 50 or XMRA 50









66 Contacts XMRA 66

75 Contacts XMRE 75 or XMRA 75

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.



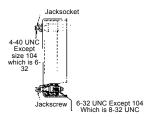
Jackscrews & Jacksockets

Jackscrew Locking Devices

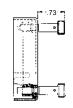
Polarized jackscrews offer the ease and assurance of threaded positive coupling. They are particularly desirable for the larger connectors (XMRE 34 and larger) whenever they are to be used in locations that make it difficult to apply enough direct pull to separate the two halves of the connector.

Type C (long-turning jackscrews and jacksockets) or Type D (monojacks) 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.

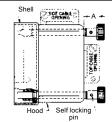
Outline



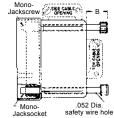
Connector with fixed Jackscrews Code designation: F



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 |
|--------|-------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|
| | 0300 | _ | _ | _ | _ | .77 | .58 | .53 | .53 | _ | _ | .52 | _ |
| XMRE | 0300X | .53 | .53 | .78 | .53 | .55 | .58 | .53 | .53 | _ | _ | .52 | - |
| VINILE | 0400 | .55 | .55 | .55 | .55 | .55 | .58 | .53 | .53 | _ | - | .52 | - |
| | 0400X | - | _ | _ | .55 | .55 | .58 | .53 | .53 | - | _ | .52 | _ |
| XMRA | 0700 | _ | _ | _ | _ | _ | .58 | _ | _ | .64 | .64 | _ | .52 |
| AWIKA | 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 Jacksockets | Turntable | М | 0.30 | stainless steel with passivating dip |
| Jackscrews Jacksockets | Long Turntable | С | 0.45 | stainless steel with passivating dip |
| Jackscrews Jacksockets | Fixed | F | 0.15 | nickel-plated brass |
| Knobs (except Monojacks | | | | al. anodized |
| Monojackscrews Monojacksockets | Turning Turning | D | | nickel-plated brass |

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 F | Photo |
|-----------------------------|--|---|
| G | G Type For General Use | |
| К | K Type For High Electrical Conductivity | Standard Guide Pin mates with all types |
| N | N Type For Extra Mechanical Strength | |

MATERIALS "G" Socket:

Phosphor bronze.

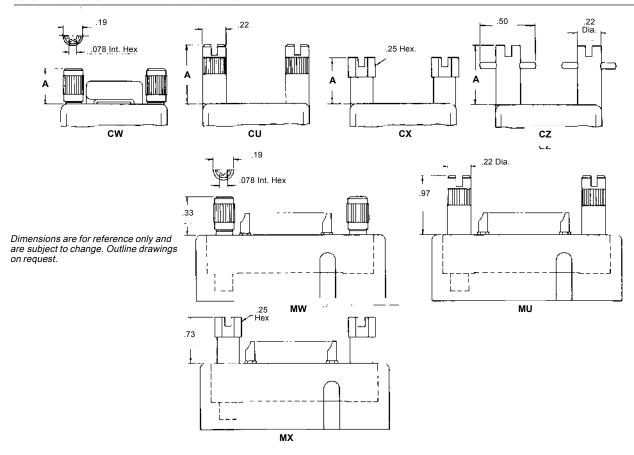
FINISH Gold over Nickel

"K" Socket: "N" Socket:

Beryllium copper.

"N" Socket: Brass. Brass

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.

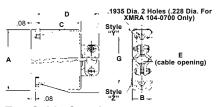
Jackscrew Locking For Series XMRE, XMRA

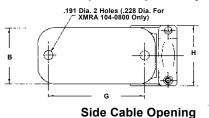
| Size | 0300 | 0400 | 0300X | 0400X | 0700 | 0800 | Size | 0300 | 0400 | 0300X | 0400X | 0700 | 0800 |
|------|------|-------|----------|---------|------|------|------|------|-------|----------|---------|------|------|
| | | Dimen | sion A - | Type C\ | N | | | | Dimen | sion A - | Type Cl | J | |
| 9 | _ | .36 | .34 | .36 | _ | _ | 9 | - | .61 | .59 | .61 | _ | _ |
| 14 | - | .36 | .34 | .36 | _ | _ | 14 | _ | .61 | .59 | .61 | _ | _ |
| 18 | ı | .36 | .34 | .36 | ı | ı | 18 | ı | .61 | .59 | .61 | ı | _ |
| 20 | ı | .36 | 34 | .36 | ı | - | 20 | ı | .61 | .59 | .61 | ı | _ |
| 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 | 1 | - | - | ı | .47 | .47 | 66 | ı | _ | - | ı | .72 | .72 |
| 75 | .33 | .33 | .33 | .33 | ı | ı | 75 | .58 | .58 | .58 | .58 | - | _ |
| Size | 0300 | | 0300X | | | 0800 | Size | 0300 | | 0300X | | | 0800 |
| | | Dimer | sion A - | Type C | X | | | | | sion A - | Type C | Z | |
| 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 | ı | _ | - | _ | .61 | .61 | 50-8 | - | _ | _ | - | .72 | .72 |
| 66 | ı | _ | - | _ | .61 | .61 | 66 | - | _ | _ | - | .72 | .72 |
| 75 | .45 | .45 | .45 | .45 | _ | _ | 75 | .58 | .58 | .58 | .58 | _ | _ |

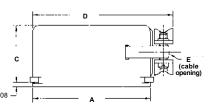


Outline Hoods-Drawn Aluminum

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







Top Cable Opening

| | Hood | | | Dime | nsion | s | |
|------------------|-----------------|------|------|------|-------|---------|-------|
| | Part Number | Α | В | ဂ | D | П | G |
| For use with | XMRA 34-0700 | 2.09 | .84 | 1.17 | 1.59 | .66x.75 | 1.688 |
| Type C | XMRA 50-8-0700 | 2.38 | 1.22 | 1.17 | 1.69 | 1.03D | 1.969 |
| Jacksockets & | XMRA 66-0700 | 2.38 | 1.22 | 1.17 | 1.69 | 1.03D | 1.969 |
| Jackscrews | XMRA 104-0700 | 2.84 | 1.63 | 2.23 | 2.75 | 1.19D | 2.375 |
| For use with | XMRA 34-0700D | 2.09 | .84 | 1.17 | 1.59 | .66x.75 | 1.688 |
| Type D | XMRA 50-8-0700D | 2.38 | 1.22 | 1.17 | 1.69 | 1.03D | 1.969 |
| Jacksockets & | XMRA 66-0700D | 2.38 | 1.22 | 1.17 | 1.69 | 1.03D | 1.969 |
| Jackscrews | XMRA 104-0700D | 2.84 | 1.63 | 2.23 | 2.75 | 1.19D | 2.375 |
| For use with | XMRA 34-0900 | 2.09 | .84 | 1.17 | 1.59 | .66x.75 | _ |
| G, K, or N, Type | | 2.38 | 1.22 | 1.17 | 1.69 | 1.03D | - |
| Guides or Type | XMRA 66-0900 | 2.38 | 1.22 | 1.17 | 1.69 | 1.03D | - |
| F Jackscrews | XMRA 104-0900 | 2.84 | 1.63 | 2.23 | 2.75 | 1.19D | - |

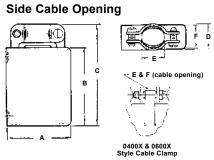
| | Hood | Dimensions | | | | | | |
|------------------------------------|-----------------|------------|------|------|------|---------|-------|-------|
| | Part Number | Α | В | С | D | Е | Н | G |
| For use with | XMRA 34-0800 | 2.09 | .84 | 1.16 | 2.58 | .64x.75 | 1.06 | 1.688 |
| Type C | XMRA 50-8-0800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

Dimensions Hoods-Formed Aluminum

| For use with | For use with Type C Jacksockets & Jackscrews | For use with G, K, or N, Type Guides * | Dimensions | | | Ca Ope | | | |
|----------------|---|--|------------|------|------|-----------|-----------|-----------|------------|
| Monojacks | | Part No. separately) | Α | В | С | D | E Dia. | F Dia. | Wt. Oz. |
| | | XMRE 9-0500 | 1 | 1.31 | 1.31 | .44 | .31 | _ | |
| | XMRE 9-0300X | XMRE 9-0500X | 1 | 1.30 | 1.31 | .44 | .59 | .31 | 0.3 |
| | | 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 | 0.3 |
| | | 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 | 0.4 |
| | | 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 | 0.5 |
| | 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 | 0.4 |
| 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 | 0.0 |
| 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 | 0.7 |
| 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 | 0.0 |
| 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 | 1.5 |

| Top Cable Opening |
|--|
| E & F (cable opening) |
| 0300X & 0500X Style Cable Clamp |
| |
| |
| |
| |
| |
| |
| Drilled for long jackscrews and jacksockets (type C) in Hood style 0300 only |
| Hood style 0300 only |

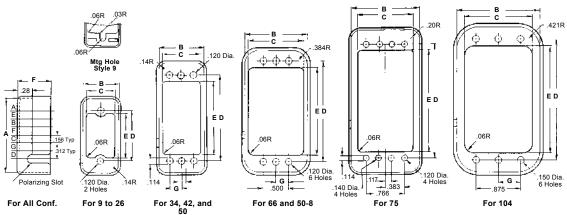
| AMINE TO COCCAE | AMINE TO COCCA | XIIIILE 10 0000X | | 11.00 | | | | .00 | • |
|-----------------|--|--|------|------------|------|------------------|-----------|-----------|------------|
| For use with | For use with Type C Jacksockets & Jackscrews | For use with G, K, or N, Type Guides * | | Dimensions | | Cable Opening | | | |
| Monojacks | | Part No. separately) | А | В | С | D | E Dia. | F Dia. | Wt. Oz. |
| | XMRE 9-0400 | XMRE 9-0600 | 1.28 | 1.31 | 1.63 | .44 | .31D | _ | |
| | XMRE 9-0400X | XMRE 9-0600X | 1.28 | 1.31 | 1.61 | .44 | .59 | .31 | 0.3 |
| | XMRE 14-0400 | XMRE 14-0600 | 1.28 | 1.25 | 1.69 | .5 | .38D | - | |
| | XMRE 14-0400X | XMRE 14-0600X | 1.28 | 1.25 | 1.55 | .5 | .59 | .38 | 0.3 |
| | 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 | 0.3 |
| | 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 | 0.3 |
| | 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 | 0.4 |
| 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 | 0.0 |
| 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 | 0.7 |
| 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 | 0.0 |
| 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 | 1.0 |



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

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.

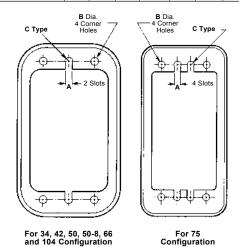
TYPICAL SHELLS FOR MONOJACKS

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 | Α | В | С |
|--------------------------|-----|------|------|
| 34, 42, 50, 50-8, 66, 75 | .11 | .120 | .06R |
| 104 | .14 | .150 | .07R |

| Shell Part No. (if ordered | Dimensions | | | | | | | |
|-------------------------------|------------|------|------|-------|------|-----|------|------|
| separately) | Α | В | С | D | Е | F | G | Oz. |
| 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 | | | | | | | | |
| XMRE 34-4*000 | 2.14 | .89 | .75 | 1.687 | 1.44 | .66 | .234 | 0.25 |
| XMRE 42-2*000 | | | | | | | | |
| XMRE 42-4*000 | 2.45 | .89 | .75 | 2.000 | 1.75 | .66 | .234 | 0.28 |
| XMRE 50-2*000 | | | | | | | | |
| 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 | l | | | | | | | |
| XMRE 75-4*000 | 2.86 | 1.38 | 1.11 | 2.282 | 2.03 | .66 | - | 0.32 |
| XMRA 104-2*000 | l | | | | | | | |
| XMRA 104-4*000 | 2.91 | 1.69 | 1.48 | 2.375 | 2.13 | .66 | .437 | 0.30 |





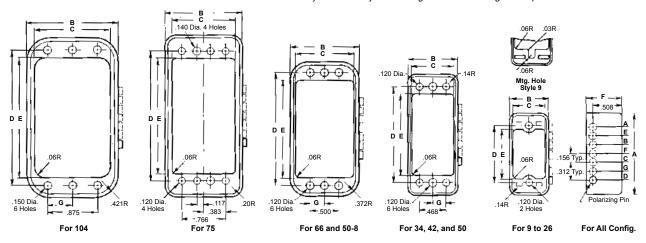
Receptacle Shell Style Number 2000

Shells are .040 in. thick.



Outline Shells - Plug

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

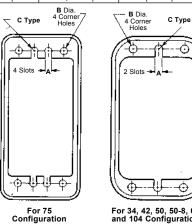


Dimensions

| Shell Part No. (if ordered | | | Wt. | | | | | |
|-------------------------------|------|------|------|------------|------|-----|------|------|
| separately) | Α | В | C | nensi D | E | F | G | Oz. |
| 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 | Α | В | С |
|--------------------------|-----|------|------|
| 34, 42, 50, 50-8, 66, 75 | .11 | .120 | .06R |
| 104 | .14 | .150 | .07R |







Plug Shell Style Number 1000

Shells are .040 in. thick.

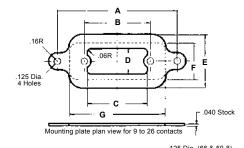
Outline Mounting Plates

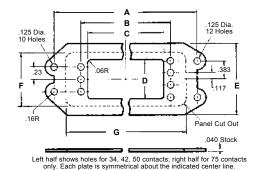
Dimensions are for reference only and are subject to change. Outline drawings on request.

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.





H Dimension
50-8 = 250
104 = .437

Mounting Plate Plan View for 50-8, 66 & 104 Contacts
Note: .19R for 104 and .16R for 50-8 & 66 for panel cutout.

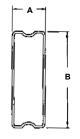
Dimensions

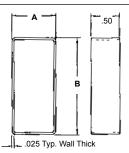
| Mounting Plate Part | | | | Pa | | | | |
|---------------------|------|-------|--------|------|------|------|------|------|
| No. (If Ordered | | Dii | mensic | ns | | Cu | tout | Wt. |
| Separately) | Α | В | С | ם | E | F | G | Oz. |
| XMRE 9-0010 | 2.02 | 1.000 | .88 | .41 | .95 | .64 | 1.58 | 0.09 |
| 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

| Di | m | e | n | S | 10 | n | S |
|----|---|---|---|---|----|---|---|
| | | • | | - | - | | - |

| Potting Form Part No. (If Ordered Separately) | Dimensions | | | |
|---|------------|------|--|--|
| | Α | В | | |
| 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 | | |

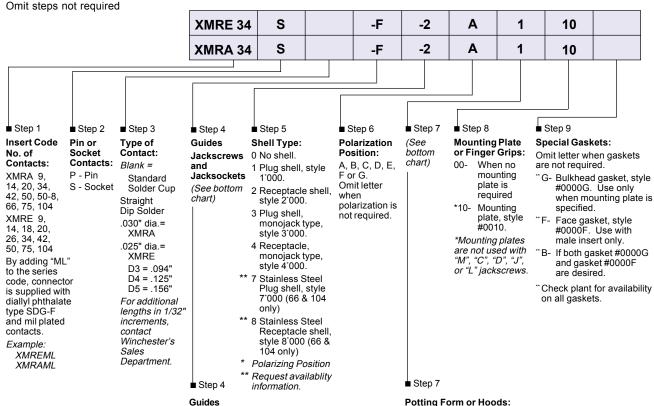
| Potting Form Part No. (If Ordered Separately) | Dimer | Dimensions | | | |
|--|-------|------------|--|--|--|
| | Α | В | | | |
| XMRA 9-0100 | .38 | .86 | | | |
| XMRA 14-0100 | .45 | 1.11 | | | |
| * XMRA 20-0100 | .44 | 1.11 | | | |
| XMRA 34-0100 | .75 | 1.39 | | | |
| XMRA 42-0100 | .75 | 1.69 | | | |
| 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



- Cylindrical guide with single spring member. Recommended for ground only.
- Cylindrical guide with four spring members. May be used for electrical contact.
- Cylindrical guide without spring member. Recommended for extra mechanical strength.

Jackscrews and Jacksockets

- M- Polarized short turnable jackscrew and jacksocket. Cannot be used with hoods.
- Polarized long turnable jackscrew and jacksocket for use with hoods
- ***D-Polarized turnable jackscrew and jacksocket for use with hoods for sizes 34 thru 104 excluding 41.
- *** F- Polarized fixed iackscrew and iacksocket.
- Non-polarized short turnable jackscrews. Cannot be used with hoods
- Non-polarized long turnable jackscrews.
- **R- Non-polarized fixed jacksocket.
- **FZ- Same as F but with 6-32 mtg thd (std on 104).
- **MW-Same as M but with knurled round knob with internal hex (not avail. 104).
- **MU- Same as M but with knurled round knob with screwdriver slot (not avail, 104)
- **MX- Same as M but with hex knob (not avail 104).
- **CW- Same as C but with knurled round knob with internal hex (not avail. 104).
- **CU- Same as C but with knurled round knob with screwdriver slot (not avail. 104)
- **CX- Same as C but with hex knob (not avail. 104).
- **CZ- Same as C but with prybar knob (not avail. 104).
- Request availablity information.
- *** Material: Nickel-plated brass standard

- 0- When no potting form or hood is required.
- Potting form style #0100. Cannot be used with hood. Request availability information. Cannot be used

Formed Hoods:

- Hood, top opening, style #0300, for use with Type "C" or "D" jackscrews
- Hood, side opening, style #0400, for use with Type "C" or "D" jackscrews.
- Hood, top opening, style #0500, for use with "G", "K", or "N" type guides only and "F" style jackscrews.
- Hood, side opening, style #0600, for use with "G", "K", or "N" type guides only and "F" style jackscrews.

Deep Drawn Hoods:

- Hood, top opening, style #0700, for use with Type "C" or "D" jackscrews.
- Hood, side opening, style #0800, for use with Type "C" or "D" jackscrews.
- Hood, top opening, style #0900, for use with "G", "K", and "N" type guides or "F" jackscrews.
- Hood, side opening, style #0200, for use with "G", "K", or "N" type guides or "F" jackscrews.

Note: Addition of "X" to end of code # indicates cable opening larger than std. See hoods for cable opening

Example: XMRE34PD3A300X

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









SLE .025 Diameter Contacts —

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.

No. of

Contacts: 4, 5, 7, 9, 11, 14, 20, 26, 29,

34, 44, 50.

Pin Contacts: Brass, gold plated except for

SLE which is phosphor bronze, gold plated.

Socket

Contacts: Phosphor bronze, gold

plated.

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

electrification at 1000 VAC.

Dielectric: Green glass-filled diallyl phthalate per MIL-M-14,

SDG-F.

Guides: Type NSS stainless steel,

passivated or Type N Brass,

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.

Hoods: Anodized aluminum. May be

applied to either plug or receptacle. Both top and side openings are available for use with either guides

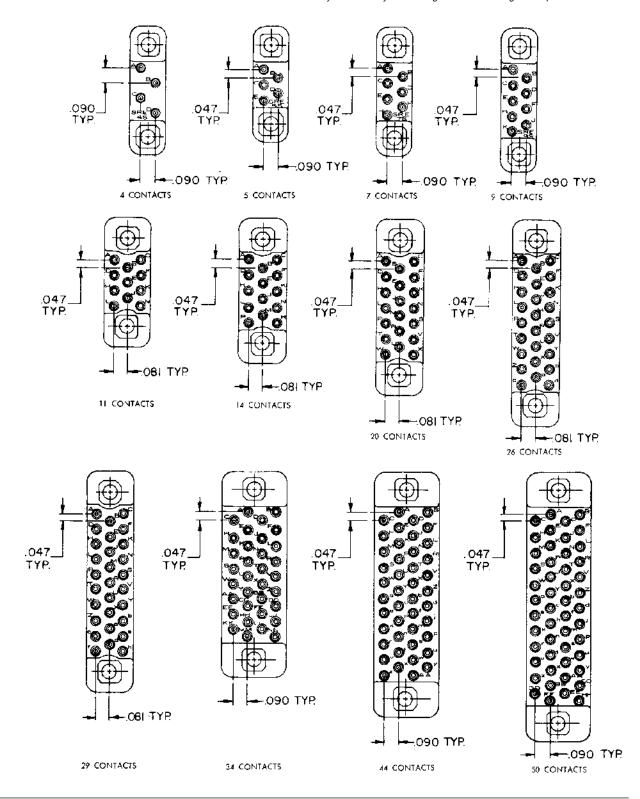
or jackscrews.



Contact Arrangement

Mating Face of Female Moldings - Male Moldings Reverse Image

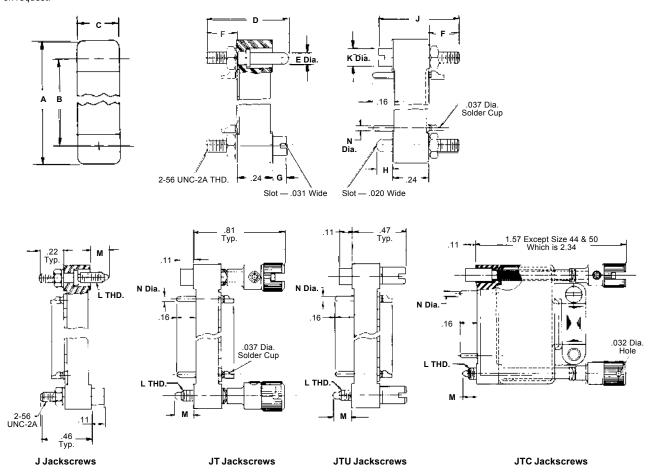
Dimensions are for reference only and are subject to change. Outline drawings on request.



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 | Α | В | С |
|--------------------|------|-------|-----|
| 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 | Н | J | K | L Thd | | М | N |
|--------|-----|----------|-----|-----|-----|-----|------|-------|------|-----|------|
| SLE | | | | | | | | | | | |
| 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.

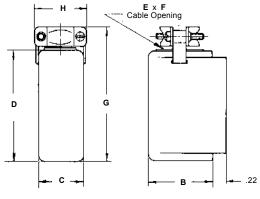


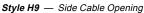
SLE-SME-SRE Series

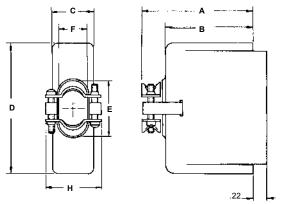
Outline

Hoods Formed Aluminum

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







Style H8 / H13 — Top Cable Opening

Dimensions

| Hood Style | Hood Catalog Number | | ı | Dime | Ca Ope | No. of Con- | | | | |
|---------------|--------------------------------------|------|--------|---------|-----------|----------------|-----|------|-----|-------|
| Oty.o | Guides Only* | Α | В | С | D | G | Н | E | F | acts |
| 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 |
| | | | UOT AN | /AII AD | | | | | | 5 |
| NOT AVAILABLE | | | | | | | | | | |
| H13 | SRE29H13 1.02 .75 .34 1.3453 .41 .25 | | | | | | | | | |
| | | ı | A TON | /AILAB | LE | | | | | 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

S **SRE** 34 **JTC** H13 Step 5 ■ Step 3 Step 6 ■ Step 1 ■ Step 2 ■ Step 4 Step 7 Insert Code Series: Number of SI F- 025 Dia Contacts: Mounting: Contact **Special Contacts:** Jackscrew Locks: For Special 2-56 thds add -859 suffix on Designation: Large Top SLE- .025 Dia. This step to be used Polarized Fixed H8-Series SRE part 4, 5, 7, 9, 11, 14, Opening Contact P- Pin only when a special Screw & Socket numbers 20, 26, 29, 34, 44, H13- Large Top SME- .040 Dia. S- Socket material, finish, or Polarized Short Contact style is required. Turning Screw & Opening Omit when standard (High) SRE- .030 Dia. Socket contacts are used. Large Side Contact JTC- Polarized Long H9-Consult sales Turning Screw & Opening department for *When ordering Socket proper designation. hoods separately JTU- Polarized Short use Catalog Number in Chart Order Solder Cup Turning Screw & Adapter for #20 Socket with Round Knob AWG Stranded wire. Use Part No. S45. Guides: Must be ordered NSS-Stainless Steel separately. Cylindrical Polarized Guides **Gold Plated Brass** Polarized Guides

SREC Series

Sub Miniature Rectangular, Removable Contacts



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.

Leaded commercial bronze,

gold plated.

Socket Contacts: Phosphor bronze,

gold plated.

Termination

Dielectric:

Crimp or .025 sq. wire wrap. Types:

Crimp contacts will accommodate #20-#28 AWG

stranded wire.

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

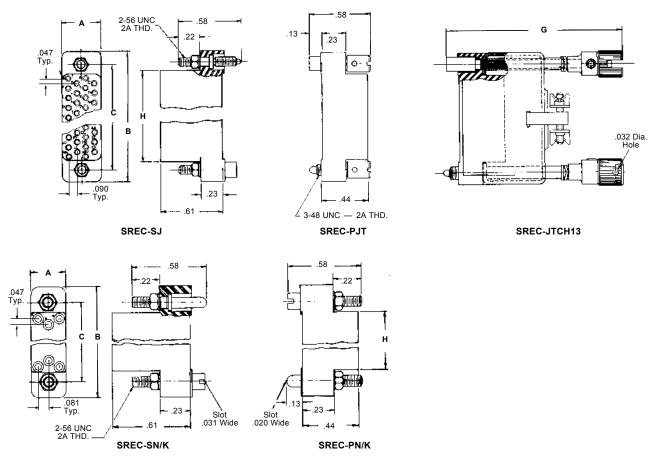
extra mechanical strength. Type K - beryllium copper for high electrical conductivity. Type NSS - stainless steel

Hoods: Top opening hoods are

available in all sizes. Side opening available for

SREC 50 only.

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



Dimensions

| DI | DIMENSION CHART | | | | | | | | | | | | |
|-----------------|-----------------|------|-------|------|------|--|--|--|--|--|--|--|--|
| No. of Contacts | Α | В | С | G | Н | | | | | | | | |
| 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 | | SREC 7 | SREC 1 | 4 | SREC 20 | SREC 26 | SREC | 34 | SREC 50 |
|------------------|------|--------|-----------|---|-------------|---------|--------|----|---------|
| in Ounces | Plug | .03 | .05 | | .07 | .08 | .12 | 2 | .15 |
| (w/o contacts) | Plug | .04 | .06 | | .08 | .09 | .15 | 5 | .20 |
| Component Parts | | Guid | Guide Pin | | uide Socket | L Washe | er (2) | | Nut (2) |
| Weight in Ounces | | .0 | .02 | | .02 | .007 | 7 | | .01 |

Contacts

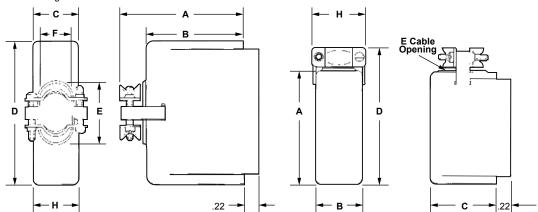
| | Contact | Wire Size | | Dimensions | | | | | | |
|-----------|------------|------------|-----|------------|------|------|----------------|--|--|--|
| Part No. | Type | (Stranded) | Α | В | С | D | Current Rating | | | |
| 100-4024P | P (Male) | 24-26-28 | _ | .56 | .028 | .055 | | | | |
| 100-4024S | S (Female) | 24-26-28 | .55 | _ | .028 | .055 | 5 Amp | | | |
| 100-4020P | P (Male) | 20-22 | _ | .50 | .046 | _ | 3 Amp | | | |
| 100-4020S | S (Female) | 20-22 | 48 | _ | .046 | _ | Ī | | | |

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



Outline Formed Aluminum Hoods

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



Dimentions

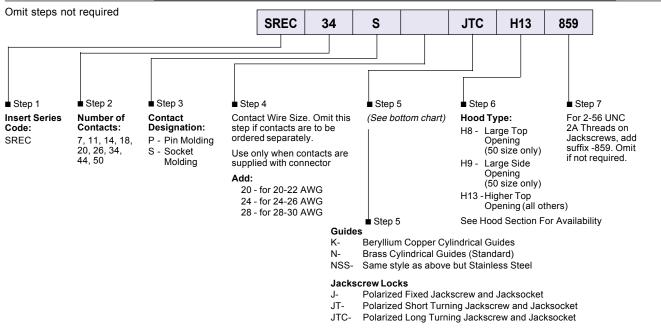
SRE/SREC Large Top Opening Hoods

| Code No.* | | Dimer | sions | 5 | Ca Ope | ble ning | | Fits Connector |
|--------------|------|-------|-------|------|-----------|-------------|-----|---------------------------|
| | Α | В | С | D | Е | F | н | |
| 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.* | А | В | С | D | E | н | 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.





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



42-45745



| - | | | | | _ | |
|-------|----|----|-----|--------------|-----|----|
| 10 | rm | ın | atı | Λn | Tyı | വല |
| - 1 - | | | uu | \mathbf{v} | | |

Dip Solder:

.125" or .156" standard lengths with other lengths

available on special order.

specified positions.

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

Removable:

Crimp

Solder Cup:

Accommodates up to #22 AWG stranded wire.

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,

When 74 contacts are required no polarization other than hardware polarization is available.

Specifications

Current Rating: 5.0 amps.

Pin Contacts: .030" dia. gold plated brass

conforming to specification

QQ-B-626.

Socket Contacts: **Termination**

Gold plated phosphor bronze.

Solder cup, dip solder and

Housing Material:

Types:

crimp removable contacts.

Red diallyl phthalate for Dip Solder and Solder Cup Housings. Green diallyl phthalate for Crimp Remov-

able Housings

Dielectric:

Minimum withstanding voltage is

one minute electrification at

1200 VAC.

Polarization:

Hoods:

Polarizing pins may be used in any combination in center row.

Jackscrews:

Passivated stainless steel, anodized aluminum knobs.

Anodized aluminum, top

opening only.

Crimp Tooling

Automatic Crimping Machine:

Cat. No. 107-0952. **Hand Crimping Tool:**

Cat. No. 107-0616. Locator:

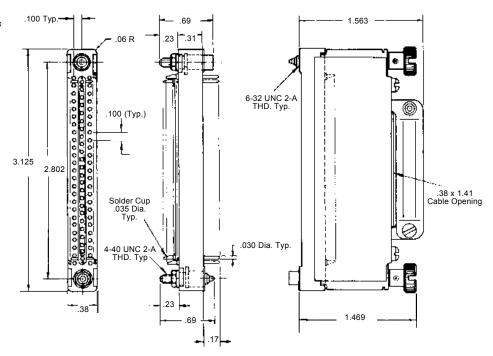
Cat. No. 107-0617.

Contact Removal Tool: Cat. No. 107-1012.

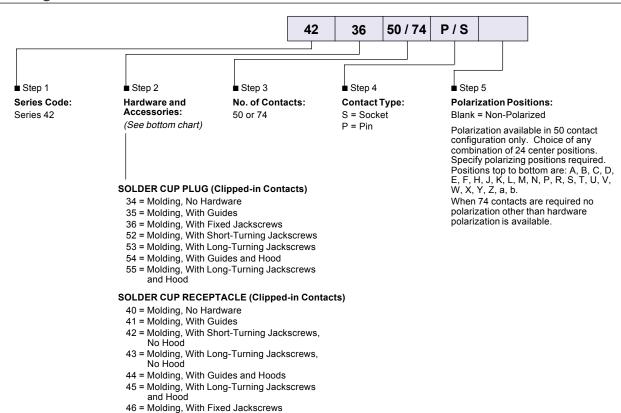
Contact Insertion Tool:

Cat. No. 107-1011.

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



Solder Cup, Clipped-in Contacts

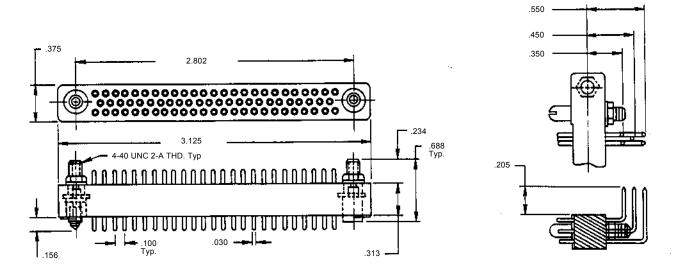


Dimensions are for reference only and are subject to change. Outline drawings on request.

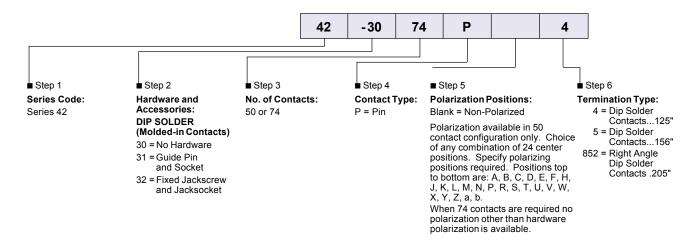
Dip Solder Receptacle

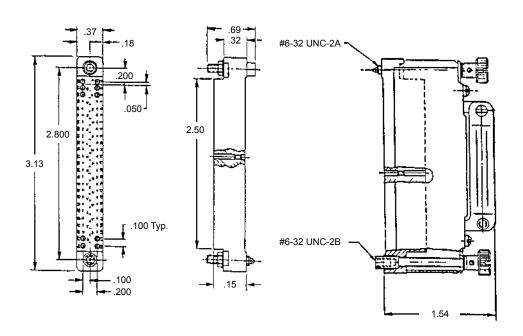
Shown:

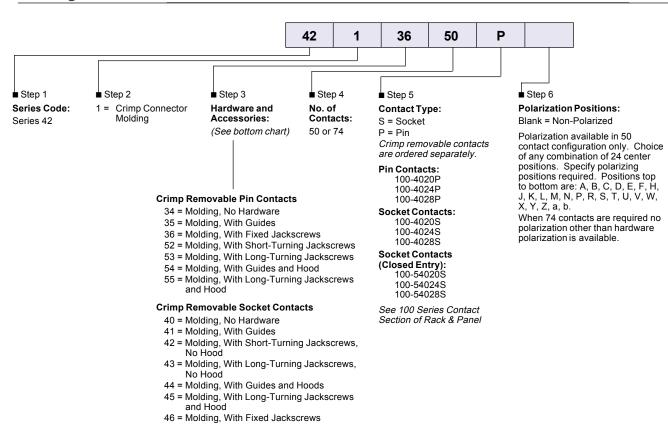
74 contact right angle configuration. Center row eliminated for 50 contact connector.



Dip Solder, Molded-in Contacts







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.







XSRM14PNSS1000 SRM14SNSS0000





SRM26SCO300



XSRM26SM2000



SRM26PF0000

Specifications

Current Rating: 7.5 Amps

No. of

Contacts:

5, 7, 11, 14, 20, 26, 34, 50, 75, 104

Pin Contacts: Socket

.040 dia. brass, gold plated.

Contacts:

Phosphor, bronze, gold plated.

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.

Electrical Data: Minimum dielectric withstand-

ing voltage is one minute at 1500 VAC when tested in accordance with MIL-C-28748. Dielectric:

Guides:

Hoods:

Shells:

Glass-filled diallyl phthalate - grey- per MIL-M-14, SDG-F. NSS Type, stainless steel; or

N Type, brass.

Jackscrews:

Stainless steel with knurled and slotted aluminum knobs. Anodized aluminum. May be

applied to either plug or receptacle. Both top and side openings are available.

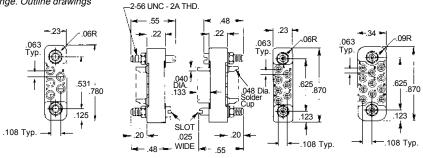
Polarized shells are available.

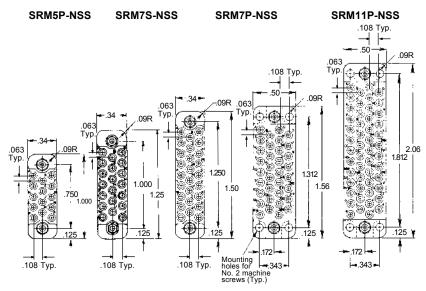
SRM connector assembled with a shell changes part number from SRM ____ to XSRM ____.



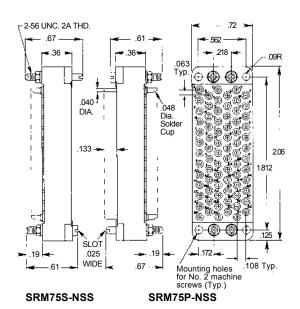
Contact Arrangements

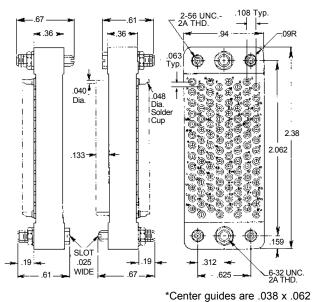
Dimensions are for reference only and are subject to change. Outline drawings on request.





SRM14P-NSS SRM20P-NSS SRM26S-NSS SRM34P-NSS SRM50P-NSS

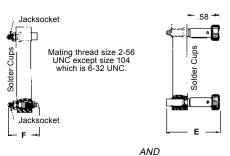




*Center guides are SRM104S-NSS SRM104P-NSS

OUTLINE JACKSCREWS & JACKSOCKETS

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



Connector with fixed Jackscrews Code designation F Mating connector half with turnable Jackscrews-with-Knobs Code designation M .11- Hood Set Screw

OR
Mating connector half with Hood and turnable Long Jackscrews-with-Knobs Code designation C-0300, C-0400

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 two types of turning jackscrew and jacksocket (M or C) Turnable jackscrew-jacksocket combination (M or C) assembles 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 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 | Long Cod | Turning e "C" | Short Turning | Fixed Jacks |
|----------|----------|------------------|------------------|----------------|
| Connec- | 0300 | 0300X | Code "M" | Code "F" |
| tor Size | A B | | E | F |
| 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

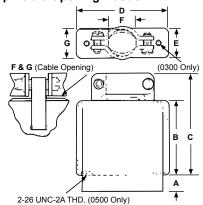
Note: Jackscrews and jacksockets are stainless steel with passivating dip. Knob is anodized aluminum.

| TYPE | Code Letter | |
|-------------------------|-------------------|---|
| Jackscrew Jacksocket | Fixed | F |
| Jackscrew Jacksocket | Short Turnable | М |
| Jackscrew Jacksocket | Long Turnable | С |
| Knob | Standard | _ |

Hoods-Formed Aluminum

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

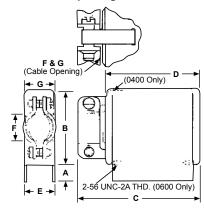
Top Cable Opening Hoods



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. | | Di | men | sions | 3 | Cal Ope | | Code No. | | Di | men | sions | 5 | Cal Ope | |
|--------------|-----|------|------|-------|-----|------------|-----|-----------------|-----|------|------|-------|-----|------------|------|
| | Α* | В | С | D | Е | F | G | | Α* | В | С | D | Е | F | G |
| 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 Code Opening No. | | Dimensions | | | | Cable Opening | | | | | |
|----------------|------------|------|------|------------------------|-----|------------|-----|---------------|------------|------------------|------|------|-----|------|------|
| | Α* | В | С | D | Е | F | G | | A * | В | С | D | Е | F | G |
| 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.

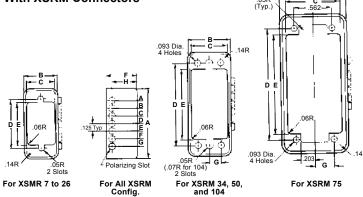


^{**}Request availability information.

Plug Shells

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

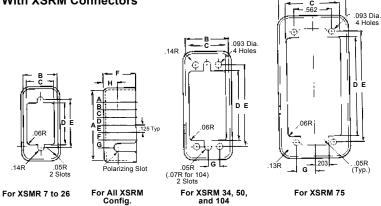
For Use With XSRM Connectors



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 |
| Ι | 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 |
| ſ | 26 | A,B,C,D,E,F,G | | |

Dimensions

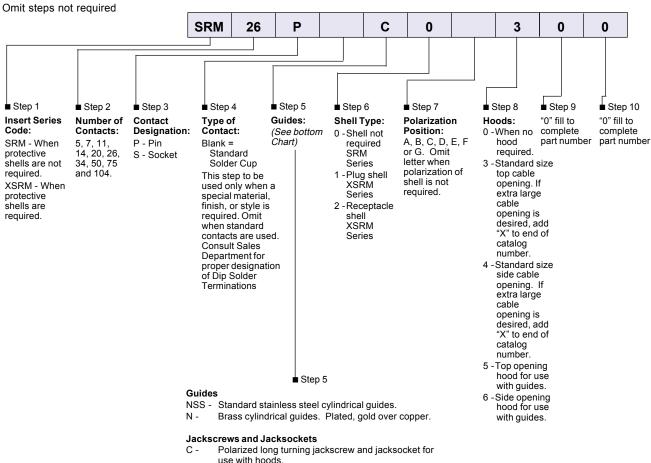
Plug Shells (.031" thick)

| Shell Part No. (if ordered | Dimensions | | | | | | | | | | |
|-------------------------------|------------|------|-----|-------|------|-----|------|-----|--|--|--|
| separately) | Α | В | С | D | Е | F | G | Н | | | |
| 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 | Dimensions | | | | | | | | | | |
|-------------------------------|------------|------|-----|-------|------|-----|------|-----|--|--|--|
| separately) | Α | В | С | D | Е | F | G | Н | | | |
| 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 | | | |





- use with hoods.
- F-Polarized fixed jackscrew and jacksocket.
- М -Polarized short turning jackscrew and jacksocket.
- Non-polarized short turning jackscrews. J -
- L-Non-polarized long turning jackscrews.
- Non-polarized fixed jacksockets.

PM6 Series

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









Nylon Nut

PM1SLR

Plug with lock ring

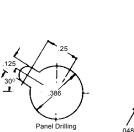
PM1PLS Receptacle with lock spring

Hood

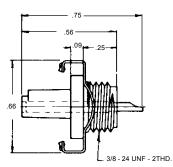
This connector was developed for applications requiring moderately high voltage ratings, this single contact connector is particularly well adapted to Photo-Flash, Aircraft, Instumentation and Communications Equipment.

Outline

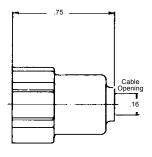
Dimensions are for reference only and are subject to change. Outline drawings on request.



PM1SLRN Plug with lock ring



PM1PLS Receptacle with lock spring



H10 Hood

Specifications

Current Rating: 7.5 amps

No. of

Contacts:

Pin Contacts: .040 dia. brass, gold plated

Socket Contacts:

Dielectric:

Phosphor bronze, gold plated

Terminations: .048 solder cup will accept up to #20 AWG stranded

Electrical Data: Dielectric withstanding

voltage is one minute electrification at 5650 VAC.

Molded Diallyl phthalate per

MIL-M-14, type SDG-F.

Color Gray.

Polarization: Permits one engaging

position only and prevents rotation of the plug and

Mounting: Cable or panel mounted. Use

nylon nut applied to either plug

receptacle with respect to

or receptacle.

each other.

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.

Hood: Weight in

Ounces:

Diallyl Phthalate cable hood

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 Nto 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

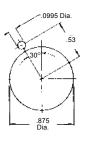


PM6H Hood

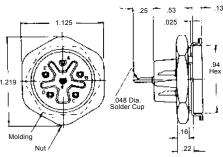
This connector was developed for applications requiring moderately high voltage ratings, this connector of minimum bulk and weight is particularly well adapted to Photo-Flash, Aircraft, Instumentation and Communications Equipment.

Outline

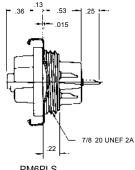
Dimensions are for reference only and are subject to change. Outline drawings on request.



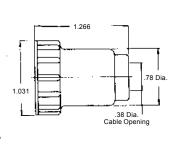
Panel Drilling



PM6SLRN Receptacle



PM6PLS Plug



PM6H Hood

Specifications

Current Rating: 7.5 amps

No. of Contacts:

Pin Contacts: .040 dia. brass, gold plated

Socket

Dielectric:

Contacts: Spring temper phosphor

bronze, gold plated

Terminations: .048 dia. solder cup accepts

up to #20 AWG stranded

wire.

Electrical Data: Dielectric withstanding

voltage is one minute electrification at 3560 VAC.

Molded Diallyl phthalate per

MIL-M-14, type SDG-F.

Color Gray.

Polarization: Body design makes it

impossible to make connection

except in proper position.

Mounting: Cable or panel mounted. Use

nylon nut applied to either plug

or receptacle.

Lock Ring (and

Hood:

lock spring): Prohibits connector rotation

on panel mounting and when engaged with lock spring, prevents accidental disconnec-

tion due to vibration, etc.

Molded diallyl phthalate cable hood may be applied to either

plug or réceptacle.

Ordering Information

PM6PLR- Connector, plug with lock spring
PM6SLR- Connector, receptacle with lock ring
PM6PLR- Connector, plug with lock ring

PM6PLR- Connector, plug with lock ring
PM6SLS- Connector, recentacle with lock

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

No. of

Contacts: 1, 2, 3

Pin Contacts: SM1 - .040 dia.

brass, gold plated SM2, SM3 - .025 dia.

brass, gold plated

Socket

Contacts: Phosphor bronze, gold plated **Terminations:** SM1 - .048 dia. solder cup

erminations: 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.

Electrical Data: Dielectric withstanding voltage

is one minute electrification at

1200 VAC.

Dielectric: Diallyl Phthalate per MIL-M-14,

type SDG-F. Color Gray.

Polarization: Body design allows engagement in only one position.

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.

Hood: Cable hood may be a

Cable hood may be applied to both plug and receptacle. Add

"H" to code number. When ordering a hood separately,

order P/N SMH.

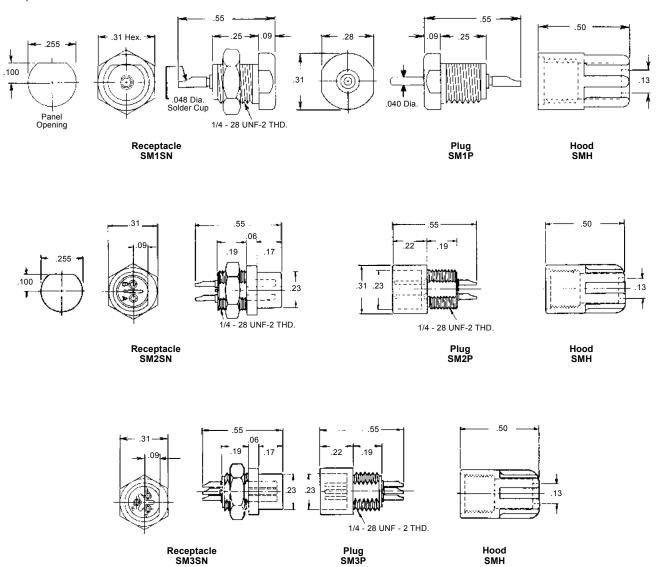
Physical and Electrical Data

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

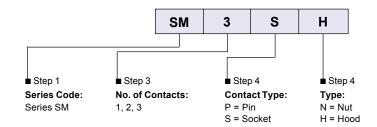
* Stranded

Mounting:

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



N Nvlon 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 of

Brown mineral filled diallyl phthalate. Also available in

gray glass filled diallyl phthalate, per MIL-M-14,

SDG-F

Polarization:

Body design permits engage-

Mounting:

ment in proper position only. 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:

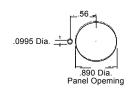
Can be used to ground any of the 4 contacts on M4 connector. Add "**G**" to code number.

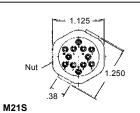
Hood:

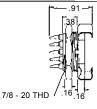
Anodized aluminum or brown mineral filled diallyl phthalate hoods may be applied to plug or receptacle of M4-M10. With or without cable clamps to provide additional strain relief

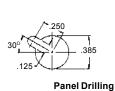
for the cable.

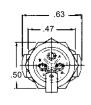
Dimensions are for reference only and are subject to change. Outline drawings on request.

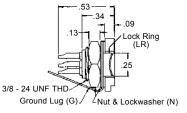


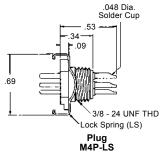


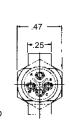




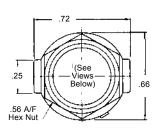


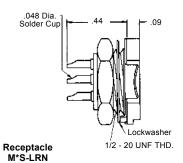


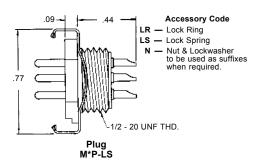


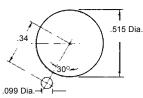


Receptacle M4S-LRGN









Panel Drilling (Viewed from Front of Panel)

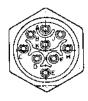
Physical & Electrical Data



Contact Arrangement



Contact Arrangement



Contact Arrangement M9S



Contact Arrangement M10S

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)

| | Number | | We | ight In Ou | nces | | | Solder Cup | |
|-------------------|----------------|------|------|------------|----------------|--------------|----------------|------------------|-------------------|
| Catalog Number | of Contacts | Plug | Rec. | Nut | Lock Spring | Lock Ring | Lock Washer | Hole Dia./in. | Current Rating |
| 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 |

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 standard hoods on request. MAX D 438 WIDE x .313 HIGH CABLE OPENING SLOT 0.38 WIDE M12H H9, H10, H19 modified hoods hood with cable clamps CABLE CABLE OPENING H9S, H19S H9C, H10C, H19C, H19CS special hood with cable clamps special hoods Used on Connectors M5, M7, M9, M10 CABLE 1/2 -20 NF2 OPENING CABLE OPENING HG9, HG18 HG9C aluminum hoods -1 438 WHEN CONNECTED 1.00 For M4 4-40 SET SCREW For M5, M7,

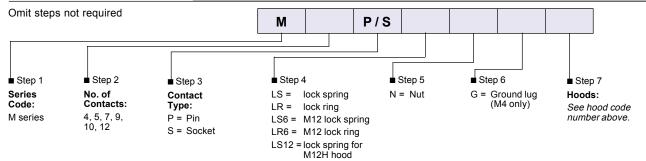
SET SCREW (4-40)

M9, M10

Physical Data

| Hood | Used on | | | DI | MENSION | ıs | | |
|----------------|------------------|-----|-----|---------|---------|-----|----------|---------------------|
| Code Number | of Connectors | Α | В | С | D | E | F-Thds | Weight In Ounces |
| Н9 | 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 |
| Н9С | 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 Dra | awing | | | .14 |
| H14 | M4 | | | See Dra | awing | | | .25 |
| H16 | M5, 7, 9, 10 | | | See Dra | awing | | | .25 |
| H12H | M12 | | | See Dra | awing | | | 1.10 |

Ordering Information





JF Series

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

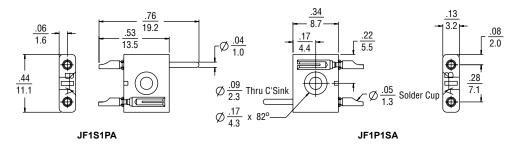
Outline

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

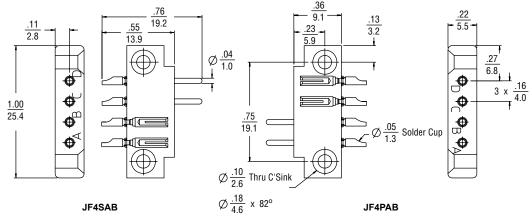
JF Series, PIN and Socket, 2 Position In-Line Connectors

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



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

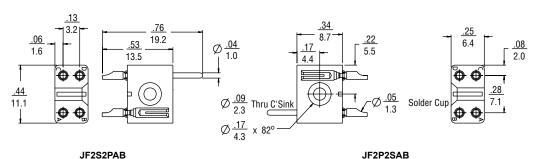
Dimensions shown are typical for all standard 4 position in-line connectors.



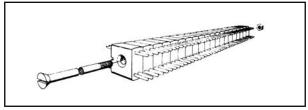
Side Mounting, 4 Position Rectangular, 2 and 4 Position In-Line

JF Series, PIN and Socket, 4 Position Rectangular Connectors

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



www.winconn.com



JF-2P 20 connectors assembled

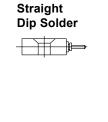
The versitile JF Series has a countersunk mounting hole and narrow width permitting exceptionally flat mounting. Maximum circuit density is provided with many positive polarizations. "Custom" multi-contact connectors are readily available by using the building block technique shown above.

Outline

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

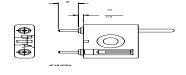
Typical Connector With DIP Solder Termination

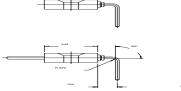
JF Series connectors may be ordered with dip solder and right angle terminations. Consult factory for availability.

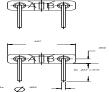


Right Angle Dip Solder

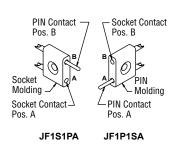


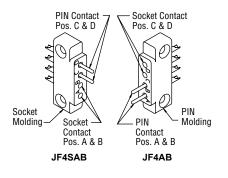


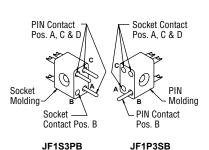




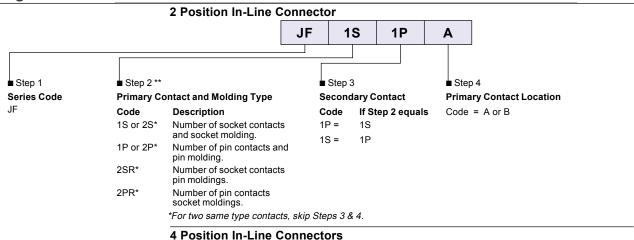
Typical Connectors Assemblies

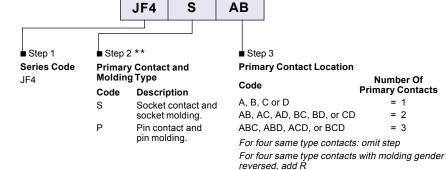




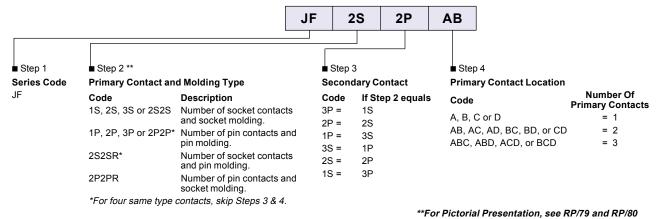


Ordering Information





4 Position Rectangular Connector



Specifications

Materials Performance Characteristics Dielectric Moldings (PIN

Withstanding and Socket): Diallyl Orthophthalate

Pin Contacts: .040 Brass, gold plated

Socket

Contacts: Phosphor bronze,

gold plated

1500 VAC (at sea level) Voltage:

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.

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:

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

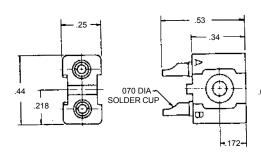
Hood: Locked to connector by

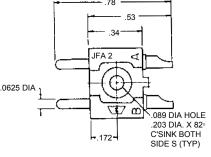
means of two side mounted

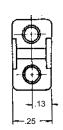
straps.

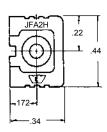
Outline

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









JFA-2S Receptacle

JFA-2P Plug

JFA-2H Hood

Ordering Information

Physical Data

| Physical D | ata | | | |
|--|--------------------------|---------------------------|------------------------|----------------|
| Code Number | Number of Contacts | Current Rating Amps | Wire Size A.W.G. | Weight Ozs. |
| JFA-1P1S | 1 Pin 1 Socket | | | .082 |
| JFA-2PH JFA-2SH (with hoods) | 2 Pins 2 Sockets | 13 | #16 | .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

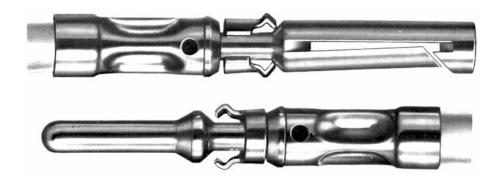
Mating Combinations

| 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.

Socket Contacts:

Closed entry type machined from copper alloy, gold

plated.

Tools:

Complete line available. Includes automatic pneumatic, pneumatic hand operated, hand operated crimping tools, insertion and

removal tools

Military

Specifications: Conforms to applicable portions of MIL-C-39029

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.)

Termination

Types:

Crimp, solder, dip solder or

wire-wrap

Current Rating: 7.5 Amps maximum for .040 contacts. 13 Amps maximum

for .062 contacts.

To Order: Specify by catalog number

Series 100 Removable Contacts are not supplied with the Note:

connector. They must be ordered as a separate item.

| Accom- | | Diameter (See Drawin | Diameter o Drawings) | | | | - | | For Loose Contacts | Contacts | | | — L | acts | For | Reeled Contacts | acts |
|---------------------------|-------------------------------------|-------------------------|-------------------------|---------------------------|-------------------------------|-------------------------|---------------------|----------|--------------------|-------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|----------------------------------|-------------------------------|-----------------------------|
| nodate induct Sizes | s Used In or Connector Series | A A | lawings) | Mating Pin Diameter | Description of Contacts | See Figure Number | AMPS per Cont | 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 |
| 14-16 | MRAC, TMRAC, XAC, TXAC | .081 | .105 | .062 | Crimp Contact | - | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-22 | 107-0970 | 107-0981 | 5431-17 | 107-0961 | 107-0966 | 5431-14 |
| 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 |
| 16-18-20 | MRAC, TMRAC, XAC, TXAC | 290. | .092 | .062 | Crimp Contact | - | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-14 | 107-0970 | 107-0977 | 5431-11 | 107-0961 | 107-0966 | 5431-14 |
| 16-18-20 | MRAC, TMRAC, XAC, TXAC | 790. | 760. | .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 |
| 18-20-22 | MRAC, TMRAC, XAC, TXAC | .052 | 820. | .062 | Crimp Contact | - | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-14 | 107-0970 | 107-0977 | 5431-11 | 107-0961 | 107-0966 | 5431-14 |
| 18-20-22 | MRAC, TMRAC, XAC, TXAC | .052 | 820. | .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 |
| 20-22-24 | 4 MRAC, TMRAC, XAC, TXAC | .045 | 290. | .062 | Crimp Contact | - | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | 107-0970 | 107-0976 | 5431-12 | 107-0961 | 107-0965 | 5431-15 |
| 20-22-24 | 4 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 |
| 22-24-26 | MRAC, TMRAC, XAC, TXAC | .033 | .055 | .062 | Crimp Contact | - | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | 107-0970 | 107-0976 | 5431-12 | 107-0961 | 107-0965 | 5431-15 |
| 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 |
| 24-26-28 | MRAC, TMRAC, XAC, TXAC | .027 | .055 | .062 | Crimp Contact | - | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | 107-0970 | 107-0976 | 5431-12 | 107-0961 | 107-0965 | 5431-15 |
| 24-26-28 | 3 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 |
| 26-28-30 |) MRAC, TMRAC, XAC, TXAC | .024 | .050 | .062 | Crimp Contact | - | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | 107-0970 | 107-0976 | 5431-12 | 107-0961 | 107-0965 | 5431-15 |
| 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 |
| 16-18-20 | | 290. | 960: | .040 | Crimp Contact | е | 7.5 | 107-0945 | 107-0903-2A | 107-0918 | 5431-14 | 107-0970 | 107-0977 | 5431-11 | 107-0961 | 107-0966 | 5431-14 |
| 16-18-20 | MRAC, TMRAC, XAC, TXAC | 290. | 960: | .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 |
| 18-20-22 | | .052 | 820. | .040 | Crimp Contact | က | 7.5 | 107-0945 | 107-0903-2A | 107-0918 | 5431-14 | 107-0970 | 107-0977 | 5431-11 | 107-0961 | 107-0966 | 5431-14 |
| 18-20-22 | MRAC, TMRAC, XAC, TXAC | .052 | 820. | .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 |
| 20-22-24 | | .045 | .065 | .040 | Crimp Contact | е | 7.5 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | 107-0970 | 107-0976 | 5431-12 | 107-0961 | 107-0965 | 5431-15 |
| 20-22-24 | | .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 |
| 22-24-26 | MRAC, TMRAC, XAC, TXAC | .033 | .055 | .040 | Crimp Contact | က | 7.5 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | 107-0970 | 107-0976 | 5431-12 | 107-0961 | 107-0965 | 5431-15 |
| 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 |
| 24-26-28 | | .027 | .055 | .040 | Crimp Contact | е | 7.5 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | 107-0970 | 107-0976 | 5431-12 | 107-0961 | 107-0965 | 5431-15 |
| 24-26-28 | MRAC, TMRAC, | .027 | .055 | .040 | Crimp | 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 Series Contacts

| 100 SE | ERIES C | SERIES CONTACTS | S | | | | | | | | | | | | | | | | |
|------------------------------|-------------------|-------------------------------|--------------------------------|----------------------------|------------------|---------------------------|-------------------------------|-------------------------|---------------------|-----------|--------------|--------------------|-----------------------------|-----------------------------|---|-----------------------------|----------------------------------|-------------------------------|-----------------------------|
| Loose | Reeled Contact | Accom- | | Diameter (See Drawings) | neter swings) | | | | | | For Loose | For Loose Contacts | | For | For Loose Contacts | acts | | Reeled Con | |
| Contact Part Number | 1 | modates Conductor Sizes | Used In Connector Series | A | B | Mating Pin Diameter | Description of Contacts | See Figure Number | AMPS per Cont | Locator | Hand Tool | Pneumatic Tool | Gage Plug Part Number | Hand Tool Part Number | Hand Tool Positioner Gage Plug Part Part Part Number Number | Gage Plug Part Number | Pneumatic Tool Part Number | Depth Block Part Number | Gage Plug Part Number |
| 100-2514P | Not Available | 14-16-18 | MRAC, TMRAC, XAC, TXAC | .081 | .105 | .062 | Solder Contact | 2 | 13 | | | | | N/A Solder Contact | · Contact | | | | |
| 100-2514S | Not Available | 14-16-18 | MRAC, TMRAC XAC, TXAC | .081 | .105 | .062 | Solder Contact | 9 | 13 | | | | | N/A Solder Contact | - Contact | | | | |
| 100-2516P | Not Available | 16-18-20 | MRAC, TMRAC XAC, TXAC | 790. | 760. | .062 | Solder Contact | 2 | 13 | | | | | N/A Solder Contact | - Contact | | | | |
| 100-2516S | Not Available | 16-18-20 | MRAC, TMRAC, XAC, TXAC | 790. | 760. | .062 | Solder Contact | 9 | 13 | | | | | N/A Solder Contact | Contact | | | | |
| 100-2518P | Not Available | 18-20-22 | MRAC, TMRAC, XAC, TXAC | .052 | 920. | .062 | Solder Contact | 5 | 13 | | | | | N/A Solder Contact | Contact | | | | |
| 100-2518S | Not Available | 18-20-22 | MRAC, TMRAC, XAC, TXAC | .052 | 920. | .062 | Solder Contact | 9 | 13 | | | | | N/A Solder Contact | Contact | | | | |
| 100-2520P | Not Available | 20-22-24 | MRAC, TMRAC, XAC, TXAC | .045 | .065 | .062 | Solder Contact | 5 | 13 | | | | | N/A Solder Contact | r Contact | | | | |
| 100-2520S | Not Available | 20-22-24 | MRAC, TMRAC, XAC, TXAC | .045 | .065 | .062 | Solder Contact | 9 | 13 | | | | | N/A Solder Contact | · Contact | | | | |
| 100-2522P | Not Available | 22-24-26 | MRAC, TMRAC, XAC, TXAC | .033 | .055 | .062 | Solder Contact | 5 | 55 | | | | | N/A Solder Contact | r Contact | | | | |
| 100-2522S | Not Available | 22-24-26 | MRAC, TMRAC, XAC, TXAC | .033 | .055 | .062 | Solder Contact | 9 | 13 | | | | | N/A Solder Contact | r Contact | | | | |
| 100-2524P | Not Available | 24-26-28 | MRAC, TMRAC, XAC, TXAC | .027 | .055 | .062 | Solder Contact | 2 | 55 | | | | | N/A Solder Contact | Contact | | | | |
| 100-2524S | Not Available | 24-26-28 | MRAC, TMRAC, XAC, TXAC | .027 | .055 | .062 | Solder Contact | 9 | 13 | | | | | N/A Solder Contact | · Contact | | | | |
| 100-2616P | Not Available | 16-18-20 | MRAC, TMRAC, XAC, TXAC | 790. | 960' | .040 | Solder Contact | 7 | 7.5 | | | | | N/A Solder Contact | · Contact | | | | |
| 100-26168 | Not Available | 16-18-20 | MRAC, TMRAC, XAC, TXAC | 790. | 960. | .040 | Solder Contact | 80 | 7.5 | | | | | N/A Solder Contact | r Contact | | | | |
| 100-2620P | Not Available | 20-22-24 | MRAC, TMRAC, XAC, TXAC | .045 | .065 | .040 | Solder Contact | 7 | 7.5 | | | | | N/A Solder Contact | r Contact | | | | |
| 100-2620S | Not Available | 20-22-24 | MRAC, TMRAC, XAC, TXAC | .045 | .065 | .040 | Solder Contact | 8 | 7.5 | | | | | N/A Solder Contact | r Contact | | | | |
| 100-4020P 100-0801P | 100-0801P | 20-22 | SREC, 42 Series | See Drawing | awing | .030 | Crimp Contact | 23 | 2 | 107-43302 | 107-43300 | | 5431-25 | | | | 107-0961 | 107-0965 | 5431-15 |
| 100-4020S 100-0802S | 100-08028 | 20-22 | SREC, 42 Series | See Drawing | awing | .030 | Crimp Contact | 24 | 2 | 107-43302 | 107-43300 | | 5431-25 | | | | 107-0961 | 107-0965 | 5431-15 |
| 100-4024P 100-0805P | 100-0805P | 24-26-28 | SREC, 42 Series | See Drawing | awing | .030 | Crimp Contact | 25 | 2 | 107-43302 | 107-43300 | | 5431-25 | | | | 107-0961 | 107-0965 | 5431-15 |
| 100-40248 100-08068 24-26-28 | 100-08068 | 24-26-28 | SREC, 42 Series | See Dr |)rawing | .030 | Crimp Contact | 26 | 2 | 107-43302 | 107-43300 | | 5431-25 | | | | 107-0961 | 107-0965 | 5431-15 |
| 100-4028P 100-0809P | 100-0809P | 28-30 | SREC, 42 Series | See Drawing | awing | .030 | Crimp Contact | 27 | . 2 | 107-43302 | 107-43300 | | 5431-25 | | | | 107-0961 | 107-0965 | 5431-15 |
| 100-4028S 100-0810S | 100-08108 | 28-30 | SREC, 42 Series | See Drawing | awing | .030 | Crimp Contact | 28 | 2 | 107-43302 | 107-43300 | | 5431-25 | | | | 107-0961 | 107-0965 | 5431-15 |
| 100-510148 100-09818 14-16 | 100-09818 | | 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 | 5431-14 |
| 100-51016S 100-0982S | 100-09828 | 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 | 5431-14 |
| 100-51018S 100-0983S | 100-09838 | 18-20-22 | MRAC, TMRAC, XAC, TXAC | .052 | 820. | .062 | 3 Piece Crimp | 19 | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-14 | | | | 107-0961 | 107-0966 | 5431-14 |
| 100-510208 100-09848 | 100-09848 | 20-22-24 | MRAC, TMRAC, XAC, TXAC | .045 | 290. | .062 | 3 Piece Crimp | 19 | 13 | 107-0945 | 107-0903-2A | 107-0918 | 5431-15 | | | | 107-0961 | 107-0965 | 5431-15 |
| | | | | | | | | | | | | | | | | Ó | ontinued | Continued on page RP / 86 | RP / 86 |

100 Series Contacts

| 100 | <u> </u> | 163 | | - | | . — | | | | • | | | | | | | | | | | | | | | |
|---------------------|---------------------|--|---------------------------|---------------------------|---------------------------|----------------------|----------------------------|------------------|------------------|---------------------------|---------------------------|---------------------------|---------------------------|---|---------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | acts | Gage Plug Part Number | 5431-15 | 5431-15 | 5431-15 | | | | | | | | | | | | | | | | | | | | |
| | For Reeled Contacts | Depth Block Part Number | 107-0965 | 107-0965 | 107-0965 | | | | | | | | | | | | | | | | | | | | |
| | For B | Pneumatic Tool Part Number | 107-0961 | 107-0961 | 107-0961 | | | | | | | | | | | | | | | | | | | | |
| | ts | _ | | | | | | | | | | | | | | | | | | | | | | | |
| | For Loose Contacts | Positioner Gage Plug Part Part Number Number | | | | | | | | 107-0944 | 107-0944 | Not Required | Not Required | Not Required | Not Required | solder | older | Wrap | Wrap | older | solder | Wrap | Wrap | Wrap | Wrap |
| | For L | Hand Tool P Part Number | | | | | | | Outer Contact | 107-0903-2A | 107-0903-2A | 107-43330 | 107-43330 | 107-43330 | 107-43330 | N/A Dip Solder | N/A Dip Solder | N/A Wire Wrap | N/A Wire Wrap | N/A Dip Solder | N/A Dip Solder | N/A Wire Wrap | N/A Wire Wrap | N/A Wire Wrap | N/A Wire Wrap |
| | Н | Gage Plug F Part Number | 5431-15 | 5431-15 | 5431-15 | 5431-25 | 5431-25 | 5431-25 | | 5431-26 10 | 5431-26 10 | 5431-26 | 5431-26 | 5431-26 | 5431-26 | | | | | | | | | | |
| | Contacts | Pneumatic Tool | 107-0918 | 107-0918 | 107-0918 | | | | | | | | | | | | | | | | | | | | |
| | For Loose Contacts | Hand F Tool | 107-0903-2A | 107-0903-2A | 107-0903-2A | 107-43300 | 107-43300 | 107-43300 | Inner Contact | 107-43300 | 107-43300 | 107-43300 | 107-43300 | 107-43300 | 107-43300 | | | | | | | | | | |
| | | Locator | 107-0945 1 | 107-0945 1 | 107-0945 1 | 107-43302 | 107-43302 | 107-43302 | | 107-43303 | 107-43303 | 107-43303 | 107-43303 | 107-43303 | 107-43303 | | | | | | | | | | |
| | H' | AMPS per Cont | 13 | 13 | 13 | 5 | 5 | 5 | | - | 1 | - | - | - | - | 13 | 13 | 2 | 2 | 2 | 13 | 13 | 13 | 13 | 13 |
| | | Figure Number | 19 | 19 | 19 | 20 | 21 | 22 | | 31 | 32 | 31 | 32 | 31 | 32 | 6 | 10 | 13 | 14 | = | 12 | 16 | 15 | 18 | 17 |
| | | Description of Contacts N | 3 Piece Crimp | 3 Piece Crimp | 3 Piece Crimp | 3 Piece Crimp | 3 Piece Crimp | 3 Piece Crimp | | Shielded Crimp | Shielded Crimp | Shielded Crimp | Shielded Crimp | Shielded Crimp | Shielded Crimp | Dip Solder | Dip Solder | Wire Wrap | Wire Wrap | Dip Solder | Dip Solder | Wire Wrap | Wire Wrap | Wire Wrap | Wire Wrap |
| | | Mating D Pin Diameter | .062 | .062 | .062 | .030 | .030 | .030 | | 820. | 870. | 870. | 870. | 870. | 820. | .062 | .062 | .030 | .030 | .062 | .062 | .062 | .062 | .062 | .062 |
| | meter | Drawings) | .055 | .055 | .050 | Drawing | Drawing | Drawing | | Drawing | Drawing | Drawing | Drawing | Drawing | Drawing | icable |
| | Diamo | (See Dra | .033 | .027 | .024 | See Dra | See Dra | See Dra | | See Dra | See Dra | Not Applicable |
| | | Used In Connector Series | MRAC, TMRAC, XAC, TXAC | MRAC, TMRAC, XAC, TXAC | MRAC, TMRAC, XAC, TXAC | SREC, 42 Series | SREC, 42 Series | SREC, 42 Series | | MRAC, TMRAC, XAC, TXAC | MRAC, TMRAC, XAC, TXAC | MRAC, TMRAC, XAC, TXAC | MRAC, TMRAC, XAC, TXAC | RG174,188 MRAC, TMRAC, 316/U XAC, TXAC | MRAC, TMRAC, XAC, TXAC | MRAC, TMRAC | MRAC, TMRAC | SREC | SREC | MRAC, TMRAC |
| NTACTS | Accom- | modates Conductor Sizes | 22-24-26 | 24-26-28 | 26-28-30 | 20-22 | | 28-30 | | RG178, 196/U | RG178, 196/U | RG161,179 187/U | RG161,179 187/U | RG174,188 316/U | RG174,188 316/U | Dip Solder | Dip Solder | Wire | Wire | Dip Solder | Dip Solder | Wire Wrap | Wire Wrap | Wire Wrap | Wire Wrap |
| 100 SERIES CONTACTS | Reeled | Part Number 2,000/Reel | | 1 | | | 100-540248 100-08238 24-26 | Not Available | | Not Available | Not Available | Not Available | Not Available | Not Available | Not Available | Not Available | Not Available | Not Available | Not Available | Not Available | Not Available | Not Available | Not Available | Not Available | Not Available |
| 100 SE | | Contact Part Number | 100-51022S 100-0985S | 100-51024S 100-0986S | 100-51026S 100-0987S | 100-54020S 100-0804S | 100-540248 | 100-54028S | | 100-8000P | 100-8000S | 100-8001P | 100-8001S | 100-8003P | 100-8003S | 7130 | 7131 | 8122 | 8123 | 8124 | 8125 | 8113 | 8114 | 8105 | 8106 |

100-S = Military Contacts

Continued on page RP / 87

MIL-C-39029 Contacts

| MIL-C-39 | MIL-C-39029 CONTACTS | CTS | | | | | | | | | | | | | | | |
|----------------|----------------------|--------------------|---------------------|----------|------|-------------|------------------|------------------|------|---------------|-------------------------|--|--------------------------|---|--------------------|--|--------------------|
| M39029 | Winchester | Accom- modates | IIsed In | Diameter | eter | Mating | Description | _ | | MII Suec | Winchester | l | | Insertion | Insertion | Removal | Removal |
| Part Number | Part Number | Conductor Sizes | Connector Series | А | В | Pin Dia. | of Contacts | Figure Number | Cont | Crimp Tool | Crimp Tool | MIL Spec Positioner | Winchester Positioner | Tool MIL | Tool Winchester | Tool MIL | Tool Winchester |
| M39029/34-271 | 100R-2020P95 | 20-22-24 | M28748 | .045 | 290: | .040 | Crimp Contact | 3 | 7.5 | M22520/1-01 | M22520/1-01 107-0903-2A | M22520/1-03 107-0945 | | | 107-1015 | M81969/18-01 107-1015 M81969/20-01 107R100 | 107R1001 |
| M39029/34-272 | 100R-1020P95 | 20-22-24 | M28748 | .045 | 790. | 790. | Crimp Contact | - | 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 | 290. | .092 | .062 | Crimp Contact | - | 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 | 59 | 5 | M22520/2-01 | 107-43300 | Buchn.614412 107-0611 | | M81969/18-02 | IT2857 | M81969/20-02 | RT2855 |
| M39029/35-274 | 100R-2020S95 | 20-22-24 | M28748 | .045 | 790. | .040 | Crimp Contact | 4 | 7.5 | M22520/1-01 | 107-0903-2A | M22520/1-01 107-0903-2A M22520/1-03 107-0945 | 107-0945 | W81969/18-01 107-1015 W81969/20-01 107R1001 | 107-1015 | M81969/20-01 | 107R1001 |
| M39029/35-275 | 100R-51020S95 | 20-22-24 | M28748 | .045 | 790. | .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 | 290. | .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 107R100 | 107R1001 |
| M39029/35-441 | 100-202862-50 | 22-24-26 | M28748 | .035 | .056 | .030 | Crimp Contact | 30 | 5 | M22520/2-01 | | 107-43300 Buchn.614412 | | M81969/18-02 | IT2857 | M81969/20-02 | RT2855 |

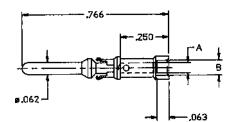


Figure 1

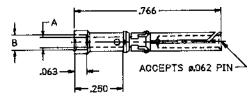


Figure 2

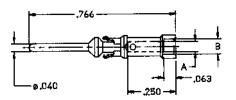


Figure 3

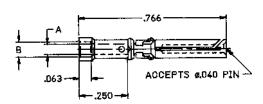


Figure 4

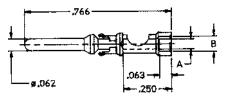


Figure 5

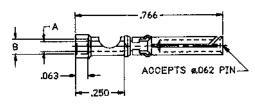


Figure 6

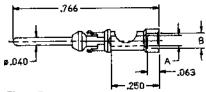
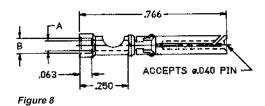


Figure 7



1,355 s,038 figure 9

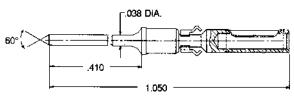
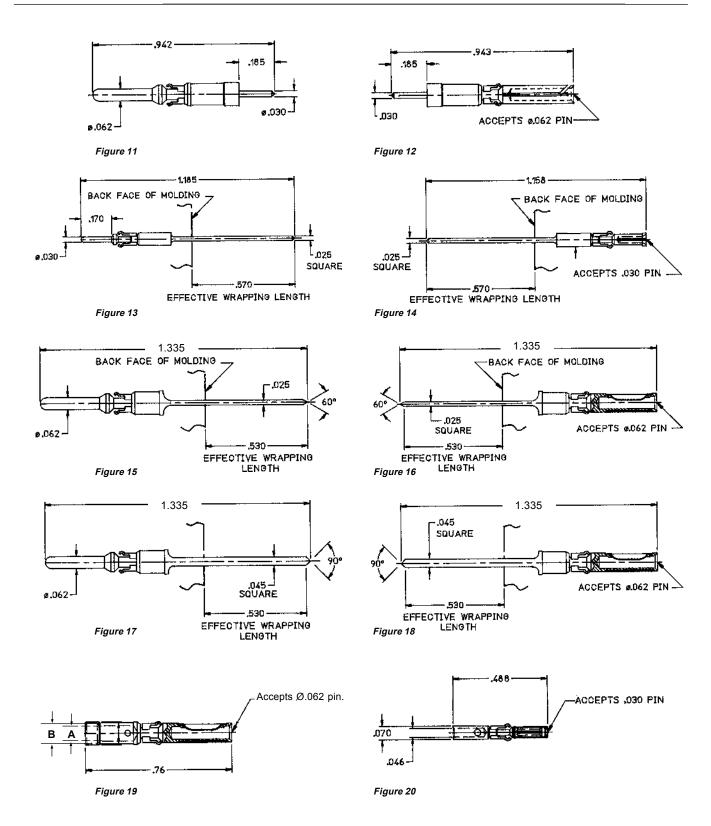


Figure 10





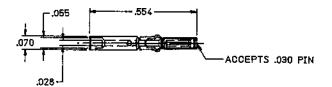


Figure 21

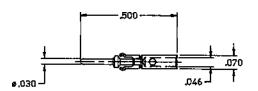


Figure 23

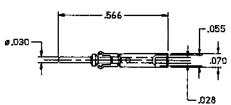


Figure 25

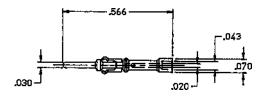
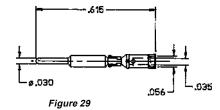


Figure 27



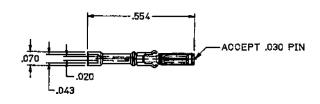


Figure 22

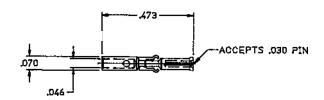


Figure 24

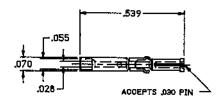


Figure 26

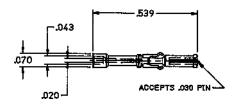


Figure 28

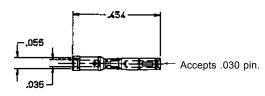


Figure 30



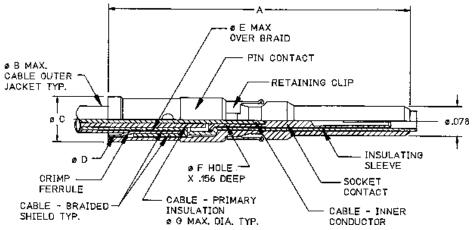
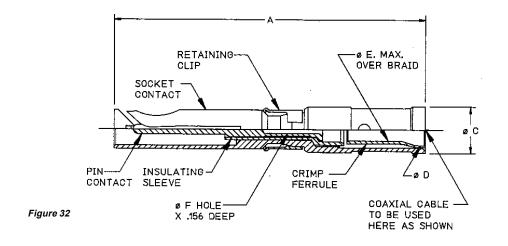


Figure 31



Ordering Information

| Catalog | | | | | Dir | nensio | ns | | |
|-----------|--------|--------------------|-------|------|------|--------|------|------|------|
| Number | Style | Cable Sizes | Α | В | С | D | Е | F | G |
| 100-8000P | Pin | RG178/U | .797 | .080 | .120 | .082 | .057 | .020 | .036 |
| 100-8000S | Socket | RG196/U | ./5/ | .000 | .120 | .002 | .007 | .020 | .030 |
| 100-8001P | Pin | RG161/U | 4 004 | 440 | 407 | 444 | 000 | 000 | 000 |
| 100-8001S | Socket | RG179/U RG187/U | 1.031 | .110 | .137 | .111 | .082 | .020 | .063 |
| 100-8003P | Pin | RG174/U | | 440 | 40= | | | 200 | |
| 100-8003S | Socket | RG188/U RG316/U | 1.031 | .110 | .137 | .111 | .082 | .023 | .063 |

Crimping Tools and Accessories

Pneumatic And Hand Crimping Tools

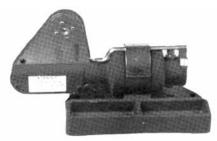


Automatic Feed Crimping Tool 600/1200 Crimps Per Hour

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 t ool (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 ½ inches long and weighs 10 ½ 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.

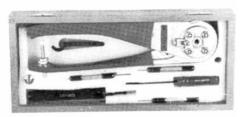


Hand Operated Crimping Tool 200/500 Crimps Per Hour

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 3/16)

Catalog Number 107-0708 for MRE 5-3, 8 / SRE / SREC (hex size 5/32)



Locators

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



Removable Contact Insertion Tools

Catalog Number 107-1011 for SREC

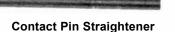
Catalog Number 107-1015 for MRAC / STD & Shielded



Catalog Number 107-1005 for MRAC / STD & Shielded

Catalog Number 107-1012 for SREC

Catalog Number 107R1001 for MRAC / STD



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



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 | |
| 107-0977 | MRAC Pin and Socket #16 & 18 | 107-0970 |
| 107-0976 | MRAC Pin and Socket #20, 22, 24, 26 | |
| 107-43302 | SREC #20 & 24 | |
| 107-43303 | MRAC (Inner) Shielded | 107-43300 |
| 107-43304 | MRAC #20 | |

22, 24, 26

Crimping Tools



Bench Mount For Crimping Tool 107-0960

Catalog Number 107-0962 includes crimp depth blocks



Crimp Depth Blocks For Crimping Tools 107-0960 and 107-0961

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