Rack & Panel

Rectangular - Miniature - Subminiature - Environmental - Removable Contacts

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

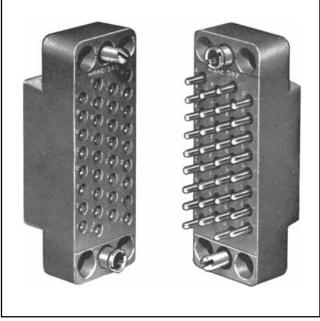
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Miniature Rectangular, Removable Contacts

FEATURES

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





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

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

SPECIFICATIONS

Current Rating: Up to 13 amps

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. See 100 Series contact

section.

Contact Identification:

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

Hoods:

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

(sea level).

Dielectric: MRAC Series: Standard glass

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.

Anodized aluminum. May be applied to either plug or receptacle. Both top and side

receptacle. Both top and opening hoods available.

MILITARY CROSS REFERENCE

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

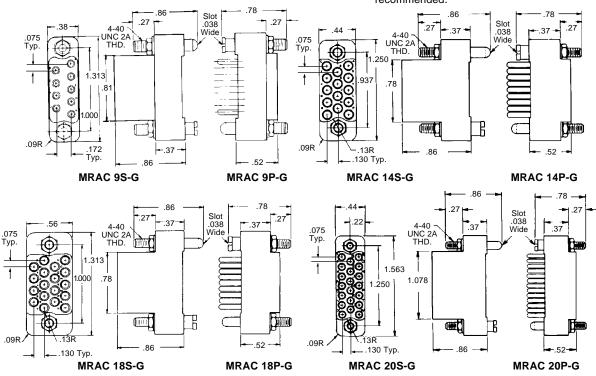
Miniature Rectangular, Removable Contacts

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			No. of Wt. in Ozs		Plug Code		No. of Contacts	Wt. in w/o Co	
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.

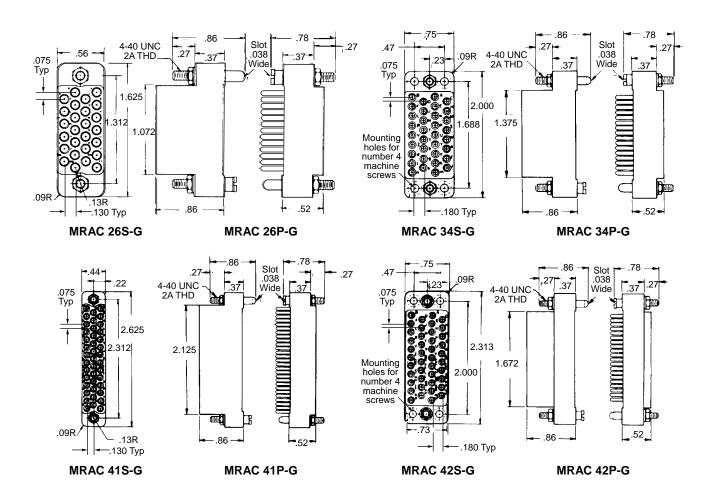
Guide Socket Code Letter	Actual Size Photo	
G*		
	For General Use Phosphor Bronze	
	COMMUNICATION OF THE PARTY OF T	
К	For High Electrical Conductivity Beryllium Copper	Standard Guide Pin mates with all types Brass
	ammit	
N*	For Extra Mechanical Strength Brass	

^{*} For passivated stainless steel add SS suffix

Miniature Rectangular, Removable Contacts

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.

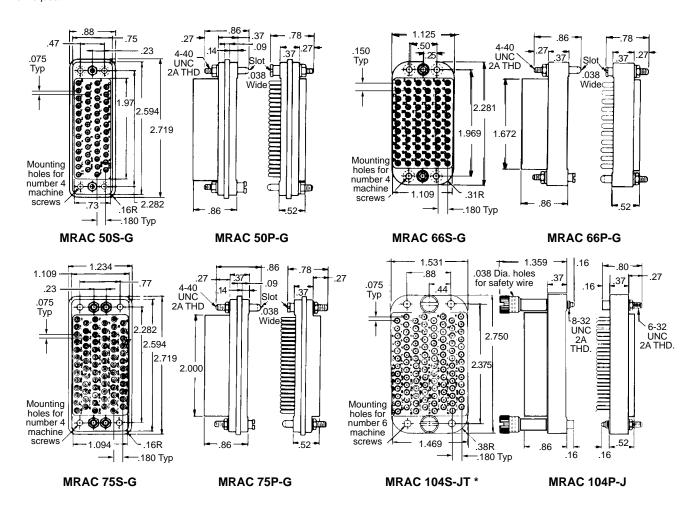
Mounting Note: Connectors MRAC 26, MRAC 20 and smaller, use guides for mounting in a hood or on a panel. Connectors MRAC 34, MRAC 42, MRAC 50, MRAC 66, and MRAC 75 use four #4 machine screws, in addition to guides, for mounting in a hood or on a panel. Guides are not recommended for use with MRAC 104.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

Miniature Rectangular, Removable Contacts

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.

Miniature Rectangular, Removable Contacts

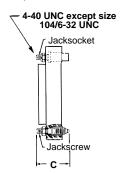
JACKSCREWS & JACKSOCKETS

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

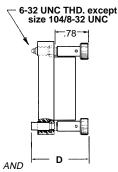
are the two fixed screws required to complete the locking action. When mated, the jackscrews may be locked with a safety wire through the hole in the self-locking pin (in the jackscrew shaft).

OUTLINE

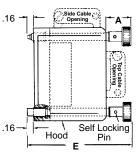
Dimensions are for reference only and are subject to change. Outline drawings on request.



Connector with fixed Jackscrews Code designation: J

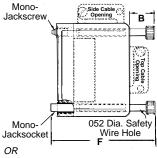


Mating connector half with turnable Jackscrews-with-Knobs.
Code designation: JT



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

OR



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

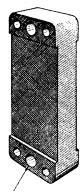
DIMENSIONS

Connector		Dimension A			١	Dimension B					Dimension E					Dimension F				
Size	Н	H1	Н8	Н9	H13	Н	H1	H8	H9	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	-	-	-	_
MRAC 18	-	.59	-	-	.59	-	-	-	-	.80	1.31	-	2.41	-	-	2.41	-	-	-	_
MRAC 20	_	.59	ı	-	.59	_	_	_	_	.80	1.31	-	2.41	ı	ı	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	ı	-	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.



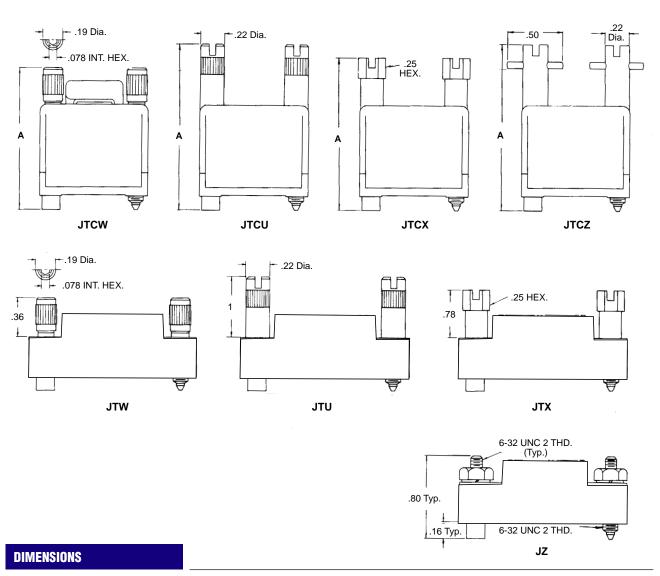
MONOJACKS ARE CAPTIVATED IN KEYHOLE SLOT OF HOOD AS SHOWN ABOVE. WHEN USING SHELLS, MONOJACKS ARE CAPTIVATED IN KEYHOLE OF SHELL AND CLEARANCE HOLES ARE PLACED IN HOODS.

MOLDINGS HAVE STRAIGHT THRU HOLES

Miniature Rectangular, Removable Contacts

OUTLINE JACKSCREW & JACKSOCKETS

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



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		Туре	JTC	w		Size		Тур	e JTC	CU		Size		Тур	e JTC	CX		Size		Тур	e JT(CZ	
OILC	Н	H1	H8	Н9	H13	OILC	Н	H1	H8	H9	H13	0.20	Н	H1	H8	Н9	H13	0126	Н	H1	H8	H9	H13
	[Dimer	nsion	Α			Dimension A				I	Dime	nsion	Α				Dime	nsion	Α			
9	-	2.22	-	ı	2.22	9	_	2.47	ı	_	2.47	9	-	2.34	ı	-	2.34	9	_	2.47	-	1	2.47
14	-	2.22	-	ı	2.22	14	_	2.47	ı	_	2.47	14	ı	2.34	ı	ı	2.34	14	_	2.47	ı	ı	2.47
18	_	2.22	_	_	2.22	18	_	2.47	_	_	2.47	18	_	2.34	-	ı	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	- 1	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	- 1	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	- 1	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	- 1

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

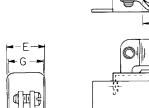


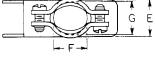
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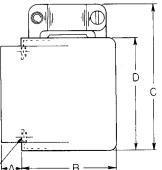
4-40 UNC-2 THD

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

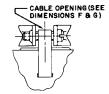
D







4-40 UNC-2 THD



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

H-8 and H-13

Cable Clamps

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

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

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

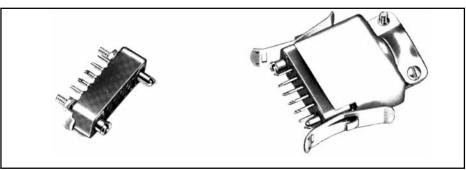
Top Cable Opening

Code No.	DIMENSIONS				ıs	Cab Open		Wt.	Fits
	Α	В	С	D	E	F	F G		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	Cak 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	-	.3	
MRE18H-9	.28	1.28	1.81	1.31	.63	.69	.44	.3	MRAC18 (P or S)
MRE20H-1	.28	1.28	2	1.56	.5	.38D	-	.3	
MRE20H-9	.28	1.28	1.86	1.56	.5	.66	.38	.3	MRAC20 (P or S)
MRE26H-1	.28	1.28	2.06	1.63	.64	.59	.38	.4	
MRE26H-9	.28	1.28	2.13	1.63	.64	.78	.44	.4	MRAC26 (P or S)
MRE34H-1	.28	1.25	2.42	2	.83	.66D	-	.6	
MRE34H-9	.28	1.25	-	2	.83	.81	.56	.6	MRAC34 (P or S)
MRE41H-1	.28	1.25	3.06	2.63	.5	.66	.44	.6	MRAC41 (P or S)
MRE42H-1	.09	1.30	2.73	2.31	.83	.63	.5	.7	
MRE42H-9	.09	1.30	-	2.31	.83	.84	.56	.7	MRAC42 (P or S)
MRE50H-1	.09	1.30	3.02	2.59	.83	.63	.5	.8	
MRE50H-9	.09	1.30	_	2.59	.83	1.06	.56	.8	MRAC50 (P or S)
MRE75H-1	.09	1.31	3.02	2.59	1.19	.63	.88	1.0	
MRE75H-9	.09	1.31	-	2.59	1.19	1	.88	1.0	MRAC75 (P or S)

Miniature Rectangular, Removable Contacts



VIBRATION LOCKS

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

DIMENSIONS / OUTLINE DRAWN ALUMINUM HOODS

Lock Tabs (MRE-V shown)

Lever & Pivot Assemblies (MRE-VL shown)

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.

Cable

Opening

Hoods shown are MRA Hoods for use with MRAC Connectors

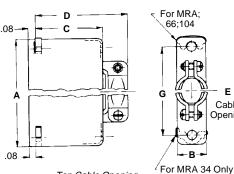
For MRA;

66;104

-B

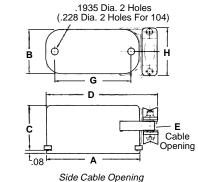
Code No.		DIM	ENS	ONS	- Top Op	eni	ng	Wt.	Fits
	Α	В	С	D	E	Н	G	Oz.	Connector
MRA 34H-491	2.08	.83	1.17	1.59	.66 x .75	-	1.688	.6	MRAC 34P MRAC 34S
MRA 66H	2.38	1.22	1.17	1.69	1.03 Dia.	-	1.969	.8	MRAC 66P MRAC 66S
MRA 104H	2.84	1.63	2.23	2.75	1.19 Dia.	_	2.375	1.0	MRAC 104P MRAC 104S

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

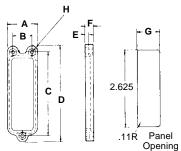


Top Cable Opening

Code No.		DIM	9	Wt.						
Jour Ho.	Α	A B C		D	E	Н	G	OZ.	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	2.38	1.22	1.17	2.92	.84 Dia.	1.34	1.969	.8	MRAC 66P MRAC 66S	
MRA 104H9	2.84	1.63	2.23	3.39	1.19 Dia.	1.63	2.375	1.0	MRAC 104P MRAC 104S	



DIMENSIONS / OUTLINE MOUNTING BRACKETS

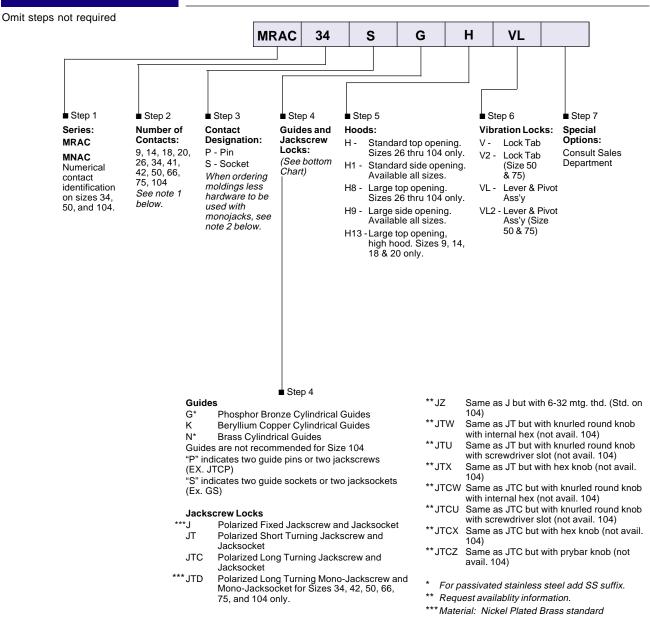


MRAC 50 and MRAC 75 connectors use the standard MRE 50 and MRE 75 mounting brackets.

Wt. **DIMENSIONS** Code No. Oz. Α В С Ε F Н D G .128 Dia 3 Holes (No. 4 Mounting 1.06 .688 MRE 50B 3.031 3.44 .13 .28 .78 .4 Screw) .150 Dia 3 Holes MRE 75B 1.48 1.047 3.062 3.56 .30 (No. 6 Mounting Screw) .14 1.14 .6

Miniature Rectangular, Removable Contacts

ORDERING INFORMATION



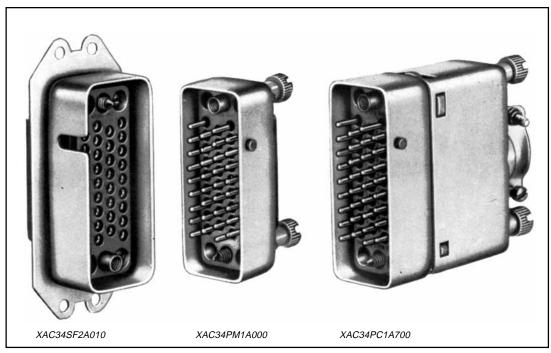
- Notes: 1. Contacts are ordered separately. See 100 Series contact section of Rack & Panel
 - When ordering molding less hardware and hood for use with JTD Monojacks, connectors must be ordered as follows:

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).

External Miniature Rectangular, Removable Contacts



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

Contacts: 9, 14, 18, 20, 26, 34, 42, 50,

66, 75, 104

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.

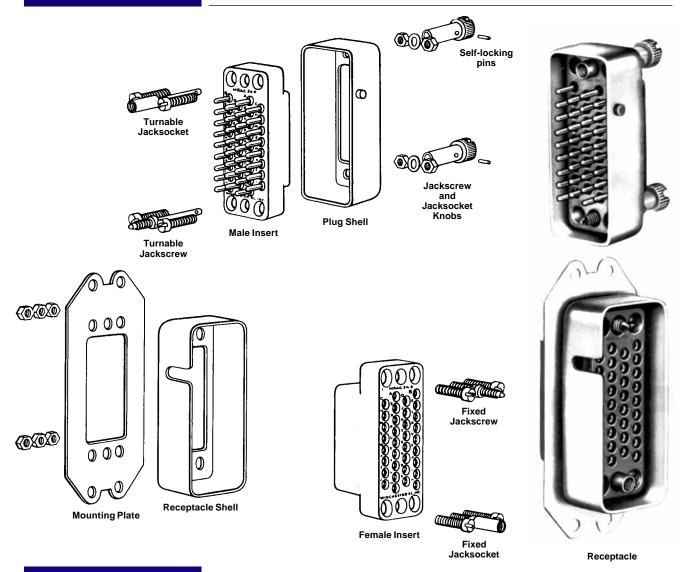
Accessories: Shells, formed and drawn

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		

External Miniature Rectangular, Removable Contacts

CONNECTOR ASSEMBLIES



DEFINITIONS 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.

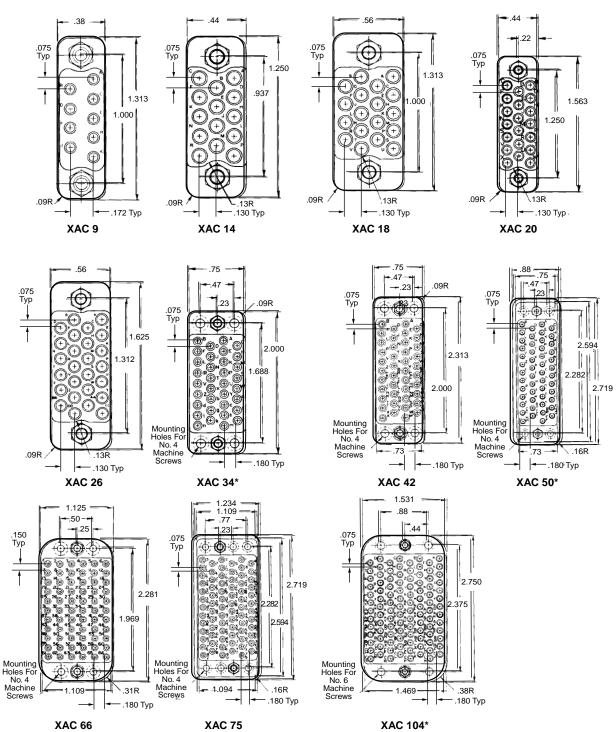
Polarization: A means of controlling the engagement of a plug and receptacle so that correct mating of the contacts is achieved.

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.

External Miniature Rectangular, Removable Contacts

CONTACT ARRANGEMENTS

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.

External Miniature Rectangular, Removable Contacts

JACKSCREW & JACKSOCKETS

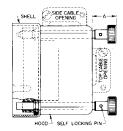
Dimensions are for reference only and are subject to change. Outline drawings on request.

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

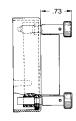
4-40
UNC
EXCEPT
SIGN
WHICH
IS 6-32

which is 8-32 und Fixed Jackscrews (F)

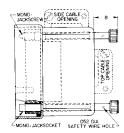
6-32 UNC EXCEPT 104



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	SP	<u>ECIFICATIO</u>	NS
	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

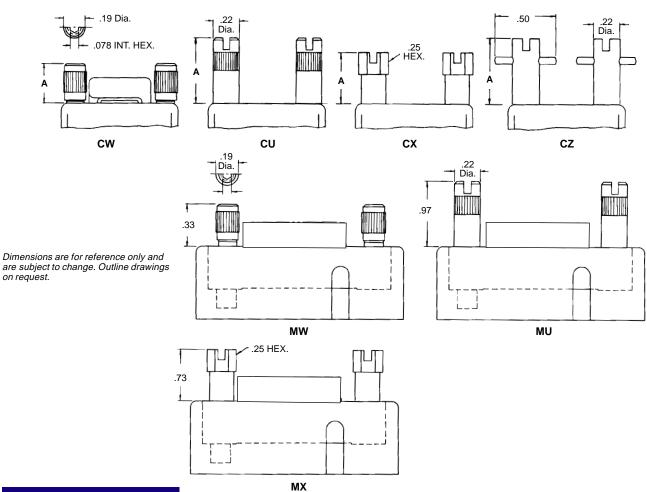
Standard Knobs - Extension Beyond Hood

	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	1	.53	_
0400	.55	.55	.55	.55	.55	.58	.53	.53	_	.52	_	.59	.55	.55	-	.53	-
0700	_	_	-	-	-	.58	-	-	.64	-	.52	ı	ı	-	.38	ı	.38
0800	_	_	_	_	_	.58	_	_	.64	_	.52	-	ı	_	.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

External Miniature Rectangular, Removable Contacts

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.

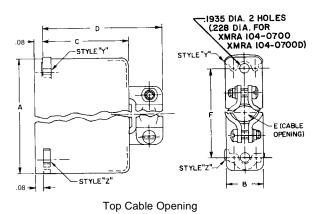
C:			Но	ods			C:			Но	ods				
Size	0300	0400	0300X	0400X	0700	0800	Size	0300	0400	0300X	0400X	0700	0800		
		Dimens	sion A -	Type C	w			Dimension A – Type CX							
9	-	.36	.36	.36	-	_	9	_	.48	.48	.48	_	-		
14	-	.36	.36	.36	-	-	14	-	.48	.48	.48	_	_		
18	-	.36	.36	.36	-	-	18	-	.48	.48	.48	-	-		
20	-	.36	.36	.36	_	-	20	-	.48	.48	.48	_	_		
26	.36	.36	.36	.36	-	-	26	.77	.48	.48	.48	_	-		
34	.39	.39	.39	.39	.47	.47	34	.52	.52	.52	.52	.61	.61		
42	.34	.34	.34	.34	-	-	42	.47	.47	.47	.47	_	-		
50	.34	.34	.34	.34	-	-	50	.47	.47	.47	.47	-	-		
66	-	_	_	_	.47	.47	66	-	_	-	_	.61	.61		
75	.33	.33	.33	.33	_	_	75	.45	.45	.45	.45	_	_		
	I	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	-	_		

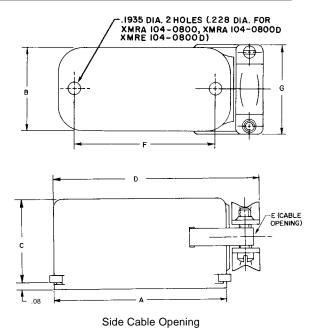
External Miniature Rectangular, Removable Contacts

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 Sockets and	XMRA 34-0800	2.09	.84	1.17	2.58	.64x.75	1.688	1.06	
Jackscrews	XMRA 66-0800	2.38	1.22	1.17	2.91	.84D	1.969	1.34	
Cucksorews	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	
Time 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	

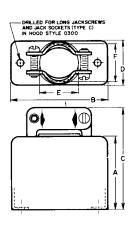
Hoods - Top Cable Opening

		9					
ForUse With	Hood Part No. (If ordered						
	separately)	Α	В	С	D	E	F
Type C Jack Sockets and	XMRA 34-0700	2.09	.84	1.17	1.59	.66x.75	1.688
Jackscrews	XMRA 66-0700	2.38	1.22	1.17	1.69	1.03D	1.969
	XMRA 104-0700	2.84	1.63	2.23	2.75	1.19D	2.375
Type D Jack	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	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	_
	XMRA 104-0900	2.84	1.63	2.23	2.75	1.19D	_

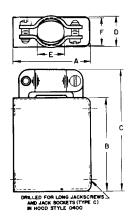
External Miniature Rectangular, Removable Contacts

OUTLINE HOODS - FORMED ALUMINUM

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



DORILLEO FOR LONG JACKSCREWS
AND JACK SOCKETS (TYPE C)
N HOOD STYLE 0300X



Top Cable Opening

Large Top Cable Opening

Side Cable Opening

DIMENSIONS

XMRE Formed Hoods for use with XAC Connectors

XMRE Formed Hoods for use 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	В	C	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

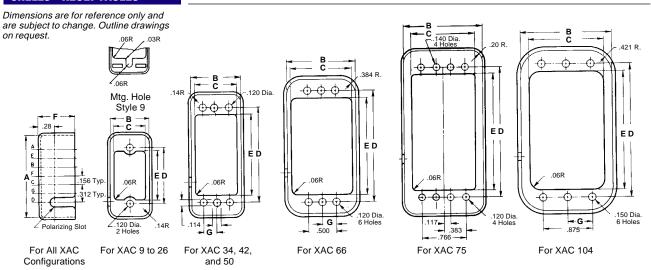
Hoods - Side Cable Opening

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

External Miniature Rectangular, Removable Contacts

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.

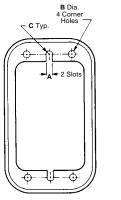
TYPICAL SHELLS FOR MONOJACKS STYLE No. 4000

Shells are .040 in. thick.

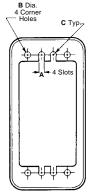
Shells are aluminum, anodized for protection against corrosion. Either shell style - plug or receptacle - may be used to house the female insert, thus allowing the "live" socket contacts to be cable or panel mounted, as desired. Shells also provide a means by which connector polarization is accomplished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

Winchester.

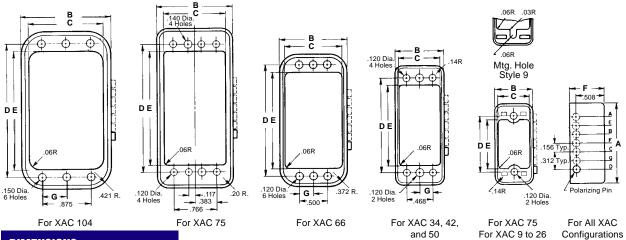
62 Barnes Industrial Road North, Wallingford, Connecticut 06492 Phone:(203)741-5400 Fax:(203)741-5500 www.winchesterelectronics.com

XAC SERIES

External Miniature Rectangular, Removable Contacts

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.

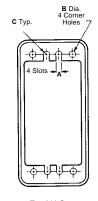
Stainless steel shells available for 66 and 104 sizes. Dimensions vary from those shown for aluminum shells. Check sales for availability and dimensions on all sizes.

	Shell Part No.			DIN	/IENSI	ONS			Wt.
	separately)	Α	В	С	D	Е	F	G	Oz.
le	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
g	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								
5.	XMRA 104-3*000	2.88	1.66	1.48	2.375	2.13	.66	.437	0.30

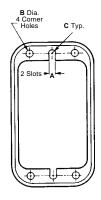
TYPICAL SHELLS FOR MONOJACKS STYLE No. 3000

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

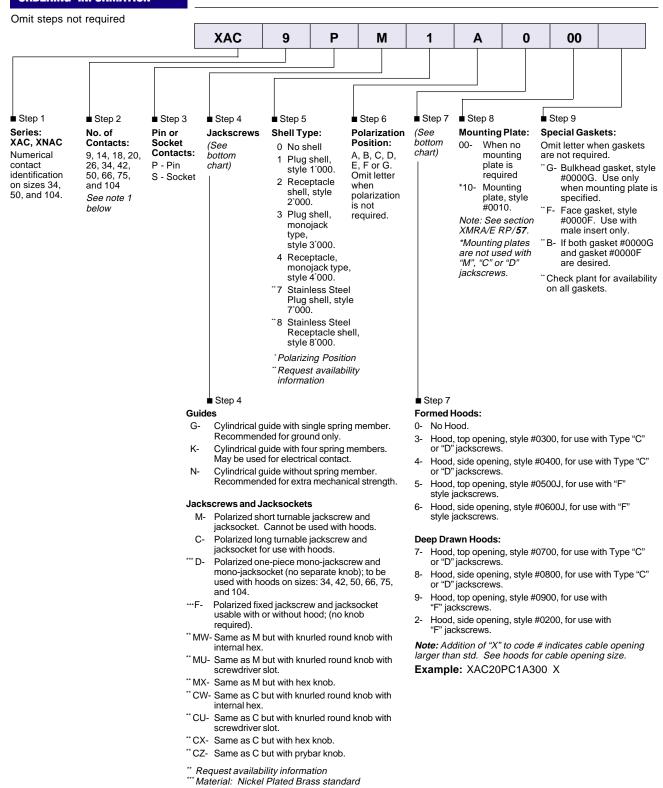


Plug Shell Style No. 1000 Shells are .040 in. thick.

XAC SERIES

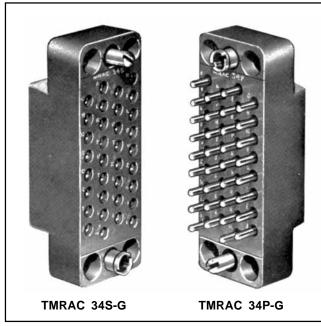
External Miniature Rectangular, Removable Contacts

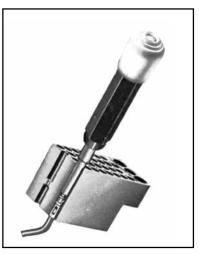
ORDERING INFORMATION



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

Heavy Duty, Industrial and Commercial, Miniature Rectangular Rack & Panel Connectors, 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 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.

Polarization: Gold plated guides provide 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.

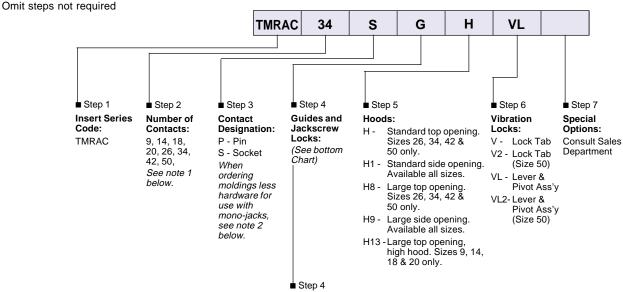
CSA Certified File No. LR34182



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

Heavy Duty, Industrial and Commercial, Miniature Rectangular Rack & Panel Connectors, Removable Contacts

ORDERING INFORMATION



Guides

G* Phosphor Bronze Cylindrical Guides K Beryllium Copper Cylindrical Guides

N* Brass Cylindrical Guides

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

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

Jackscrew Locks

***J Polarized Fixed Jackscrew and Jacksocket

JT Polarized Short Turning Jackscrew and
Jacksocket

JTC Polarized Long Turning Jackscrew and Jacksocket

***JTD Polarized Long Turning Mono-Jackscrew and Mono-Jacksocket for Sizes 34, 42, and 50 only.

**JZ Same as J but with 6-32 mtg. thd.

*JTW Same as JT but with knurled round knob with internal hex

**JTU Same as JT but with knurled round knob with screwdriver slot

**JTX Same as JT but with hex knob

**JTCW Same as JTC but with knurled round knob with internal hex

**JTCU Same as JTC but with knurled round knob with screwdriver slot

**JTCX Same as JTC but with hex knob

** JTCZ Same as JTC but with prybar knob

** Request availablity information.

*** Material: Nickel Plated Brass standard

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.

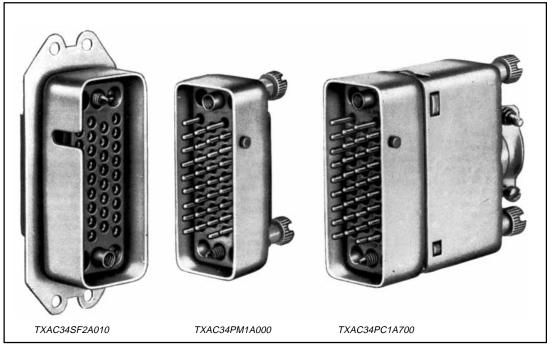
The number "8" indicates special housing for use with the JTD Monojack hardware (available on sizes 34, 42, and 50).

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.

^{*} For passivated stainless steel add SS suffix.

Heavy Duty, Industrial and Commercial, External Miniature Rectangular Rack & Panel Connectors, Removable Contacts



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

Hoods:

Anodized aluminum. May be 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.

CSA Certified File No. LR34182

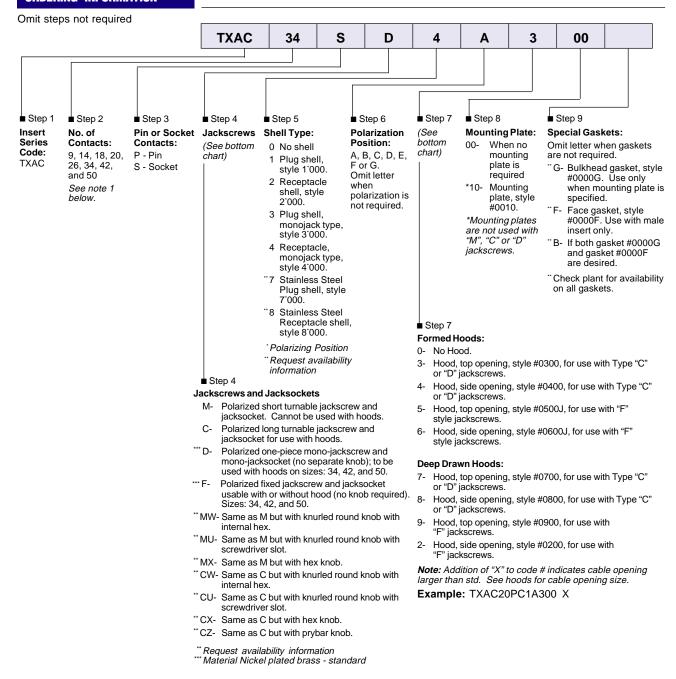


Recognized under the Component Program of Underwriters Laboratories Inc. File No. E31650



Heavy Duty, Industrial and Commercial, External Miniture Rectangular Rack & Panel Connectors, Removable Contacts

ORDERING INFORMATION



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

DIMENSIONS

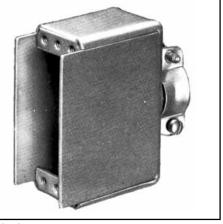
All dimensions for TXAC housing are the same as MRAC housings. All hoods, shells, hardware, and accesories used on the TXAC Series are the same as those used on the XAC Series. See the XAC Series section for part numbers and dimensions. Note the TXAC Series maximum number of contacts is 50.

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





Plug MRA 34P-G



Hood

The MRA Series offers compact, lightweight and self-aligning plugs and receptacles with unusually high current and voltage ratings for their size. Performance tests show them to well exceed military standards. Except for

contact size, the MRA and MRE Series share the same hoods, hardware and accessories. Right angle, dip solder, pin or socket contacts are available. Consult factory.

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

SPECIFICATIONS

Current Rating: 13 amps

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.

Gold plated guides provide Polarization:

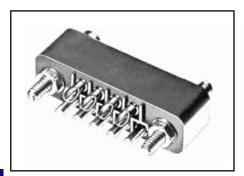
polarization. Polarized nickelplated brass and/or passivated stainless steel jackscrews with anodized aluminum knobs

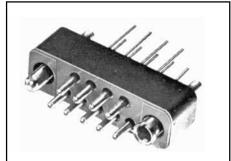
are available.

Hoods: Anodized aluminum. May be

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

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





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	NUMBER OF CONTACTS										
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

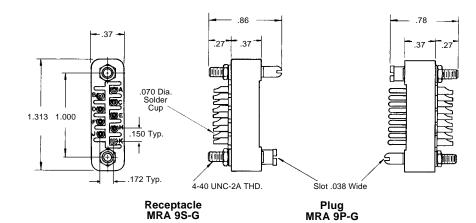
CONTACTS	CURRENT RATING	PIN DIAMETER	MAX. WIRE SIZE	SOLDER CUP DIA
8	20 amps	.093	#12 AWG	.106 D
.50	13 amps	.062	#16 AWG	.070 D

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

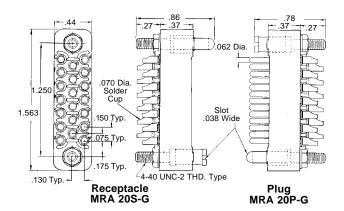
OUTLINE

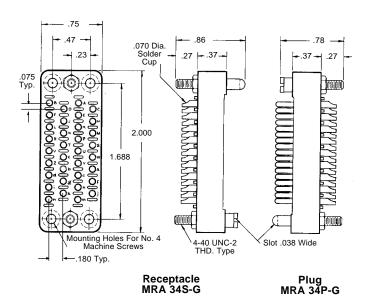
Dimensions are for reference only and are subject to change. Outline drawings on request.

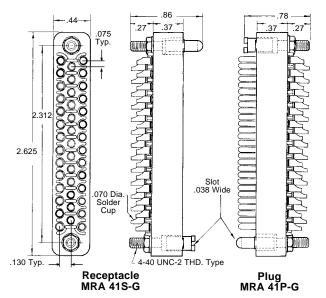
Drawings and corresponding part numbers show G type guide sockets.



Receptacle Plug MRA 14S-G MRA 14P-G





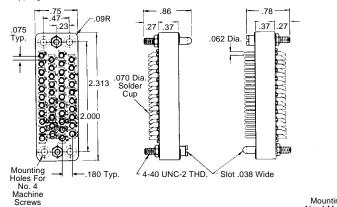


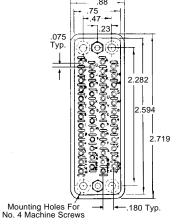
Miniature Rectangular / #16 Contacts / .062" Dia. / 13 Amps

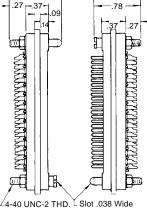
OUTLINE

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

Drawings and corresponding part numbers show G type guide sockets.







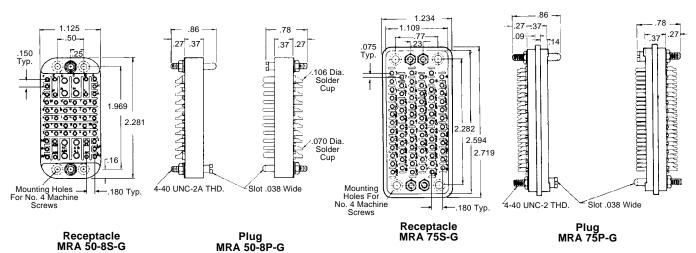
Receptacle **MRA 42S-G**

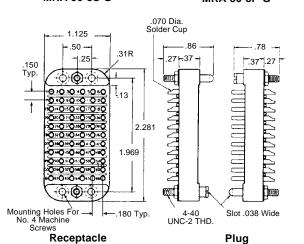
Plug MRA 42P-G

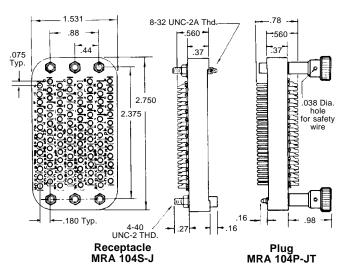
MRA 66P-G

Receptacle MRA 50S-G

Plug MRA 50P-G







MRA 104S-J

Winchester

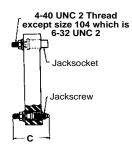
MRA 66S-G

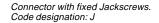
Miniature Rectangular / #16 Contacts / .062" Dia. / 13 Amps

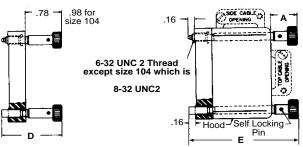
Polarized jackscrews give the ease and assurance of threaded positive coupling. The actuating side consists of two turnable screws, one male and one female, each with knurled and slotted knobs. On the mating half are the two fixed screws required to complete the locking action. When mated, the jackscrews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

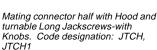
JACKSCREWS & JACKSOCKETS

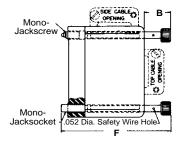






Mating connector half with turnable Jackscrews-with-Knobs. Code designation: JT





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

DIMENSIONS

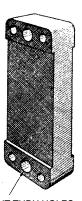
Dimensions are for reference only and are subject to change. Outline drawings on request.

Connec-	Dillicipion A			Α	Dimension B				Dimen	Dimen	Dimension E				Dimension F			
tor Size	Н	H1	H8	Н9	Н	H1	Н8	Н9	С	D	Н	H1	H8	H9	Н	H1	Н8	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

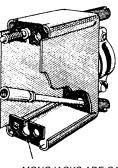
New Monojacks Assemble and Disassemble With Remarkable Ease and Speed

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

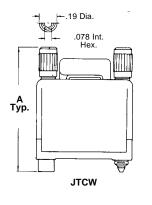


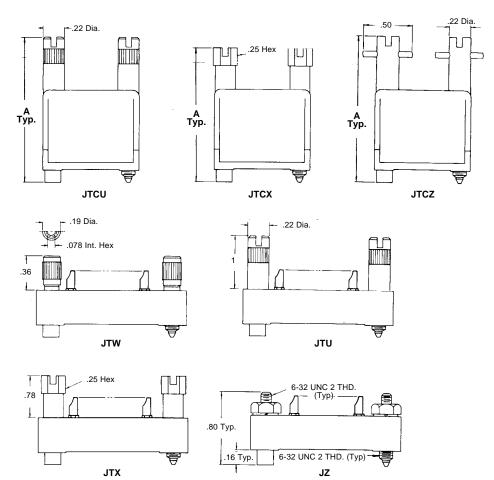
MONOJACKS ARE CAPTIVATED IN KEYHOLE SLOT OF HOOD AS SHOWN ABOVE. WHEN USING SHELLS, MONOJACKS ARE CAPTIVATED IN KEYHOLE OF SHELL AND CLEARANCE HOLES ARE PLACED IN HOODS.

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

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.

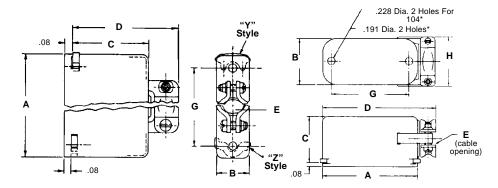
Hood Type

Size		Туре	JTCW		Size		Type	JTCU		Size	ize Type JTCX				Size	Type JTCZ			
0.20	Н	H1	H8	H9	CIZC	Н	H1	H8	Н9	OIZC		H1	H8	H9	OIZC	Н	H1	H8	H9
	D	imensi	ion A			Dimension A				Dimension A				Dimension A					
9	-	2.22	1.91	2.22	9	_	2.47	2.16	2.47	9	-	2.34	2.03	2.34	9	-	2.47	2.16	2.47
14	-	2.22	1.66	2.22	14	_	2.47	1.91	2.47	14	_	2.34	1.78	2.34	14	-	2.47	1.91	2.47
20	_	2.22	1.66	2.22	20	-	2.47	1.91	2.47	20	_	2.34	1.78	2.34	20	-	2.47	1.91	2.47
34	2.22	2.22	2.22	2.22	34	2.47	2.47	2.47	2.47	34	2.34	2.34	2.34	2.34	34	2.47	2.47	2.47	2.47
41	2.22	2.22	_	-	41	2.47	2.47	_	_	41	2.34	2.34	_	-	41	2.47	2.47	_	-
42	2.22	2.22	2.22	2.22	42	2.47	2.47	2.47	2.47	42	2.34	2.34	2.34	2.34	42	2.47	2.47	2.47	2.47
50	2.22	2.22	2.22	2.22	50	2.47	2.47	2.47	2.47	50	2.34	2.34	2.34	2.34	50	2.47	2.47	2.47	2.47
50-8	2.22	1	_	2.22	50-8	2.47	ı	_	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

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

OUTLINE **HOODS - DRAWN ALUMINUM**

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



DIMENSIONS

Top Cable Opening

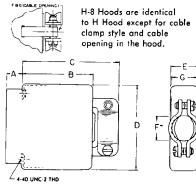
Side Cable Opening

	Catalog		DIME	ENSIC	NS – 1	TOP OPE	NIN		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"
Ī	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	Wt.	Fits	Style			
No.	Α	В	С	D	Е	Н	G Oz. Connecto		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 - FORMED ALUMINUM

MRE Series hoods for use with MRA Series connectors



巘ℷ D



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)

ii ana ii	Tand 11-0 Cable Clamps (Top Opening)													
Code No.		Din	nensi	ons		Cable Opening		Wt.	Fits					
	Α	В	С	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)					

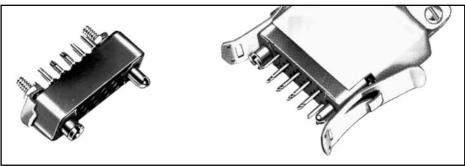
H Hoods for MRA 9, 14, and 20 will not accept JTC hardware. Use H8 hoods.

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

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)

⁶² Barnes Industrial Road North, Wallingford, Connecticut 06492 Phone:(203)741-5400 Fax:(203)741-5500 www.winchesterelectronics.com

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



HOODS - LOCKING

Lock Tabs (MRE-V shown)

Lever & Pivot Assemblies (MRE-VL shown)

Vibration Locks*

Lever **Lock Tabs** Used on & Pilot (See Note) Connectors Assembly MRE-VL MRF-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

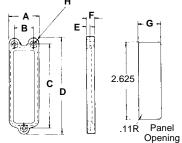
are provided for safety wiring. Vibration locks are available separately for assembly on connectors now in service. Each code number indicates two units: two levers with two pivots, and two lock tabs.

*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

MRE 50B 1.06 .688 3.031 3.44 .13 .28 .72 (No. 4 Mounting	Oz.
Screw)	
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

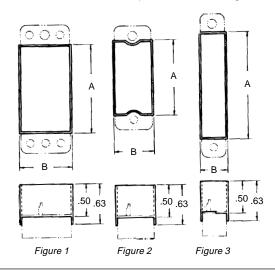
DIMENSIONS / OUTLINE PRE-SHAPED NYLON **POTTING FORMS**

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

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			

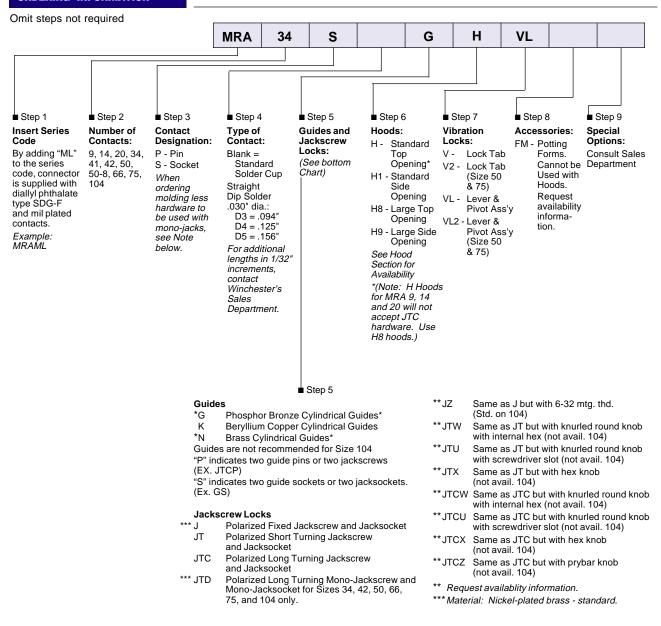
Each form matches the back opening contour of its appropriate shell, and stays easily in place during the potting operation. Of negligible weight, it need not be removed from the

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



Miniature Rectangular / #16 Contacts / .0262" Dia. / 13 Amps

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).

MRE Series

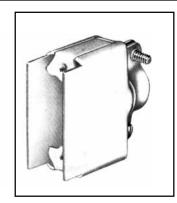
Miniature Rectangular / #20 Contacts / .040" Dia. / 7.5 Amps







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.

SPECIFICATIONS

Current Rating: 7.5 amps

No. of

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

Pin Contacts: .040 dia., gold plated brass Socket

Contacts:

Phosphor bronze plated gold.

Termination Types:

.048 dia. solder cup is standard. It will accept up to #20 AWG stranded wire. Pin and Socket Contacts available with dip solder terminations, .025 Dia. Check Sales Dept. for lengths available.

Electrical Data: Meets high potential

performance requirements of MIL-C-28748. Military versions are QPL'd to M28748/5 and M28748/6. The dielectric withstanding voltage is one minute at 1200

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

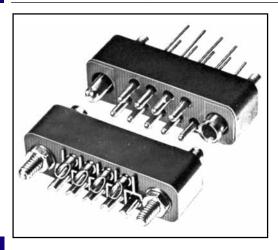
available.

Hoods: Anodized aluminum. May be

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

MRE Series

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



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 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 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.

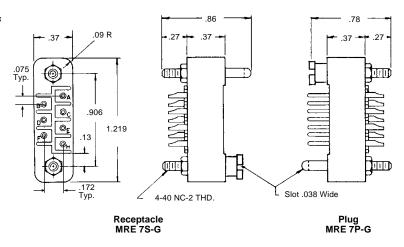
	Plug	Recept.	No. Standard Contacts.	No. Standard Contacts,	Wei O:			Plug	Recept.	No. Standard Contacts.	No. Standard Contacts.	Wei	ight
Total No. of Contacts	Winchester Electronics Code No.	Winchester Electronics Code No.	7.5 Amps (.048 dia. solder cup for #20 AWG)	10 Amps (.052 dia. solder cup for #18 AWG)		_	Total No. of Contacts	Winchester Electronics Code No.	Winchester Electronics Code No.	7.5 Amps (.048 dia. solder cup for #20 AWG)	10 Amps (.052 dia.		$\overline{}$
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							

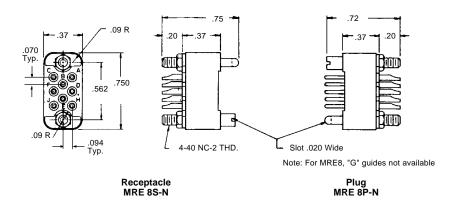
MRE Series

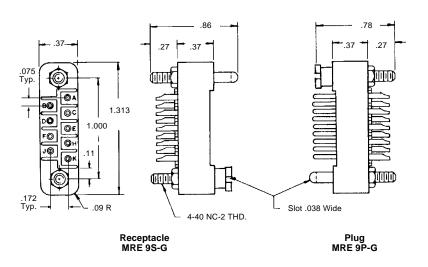
Miniature Rectangular / #20 Contacts / .040" Dia. / 7.5 Amps

OUTLINE

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



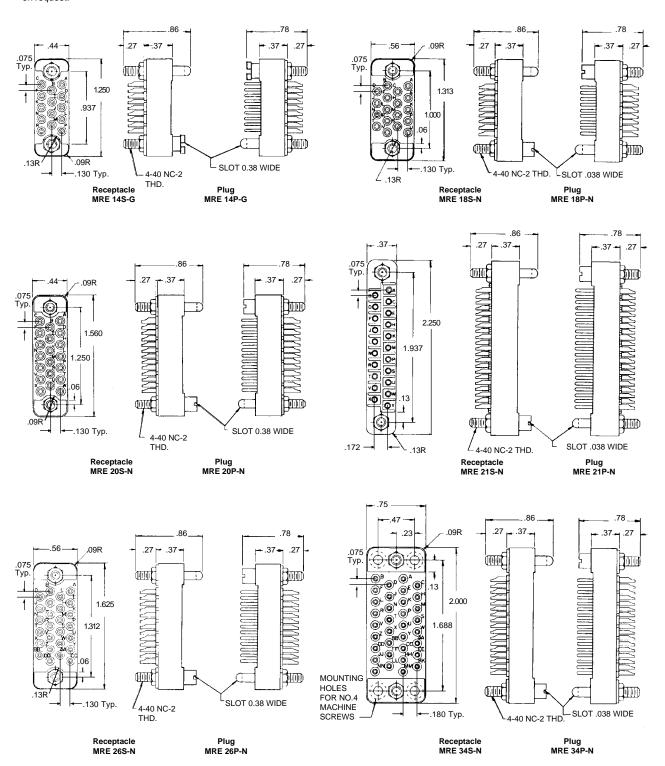




Miniature Rectangular / #20 Contacts / .040" Dia. / 7.5 Amps

OUTLINE

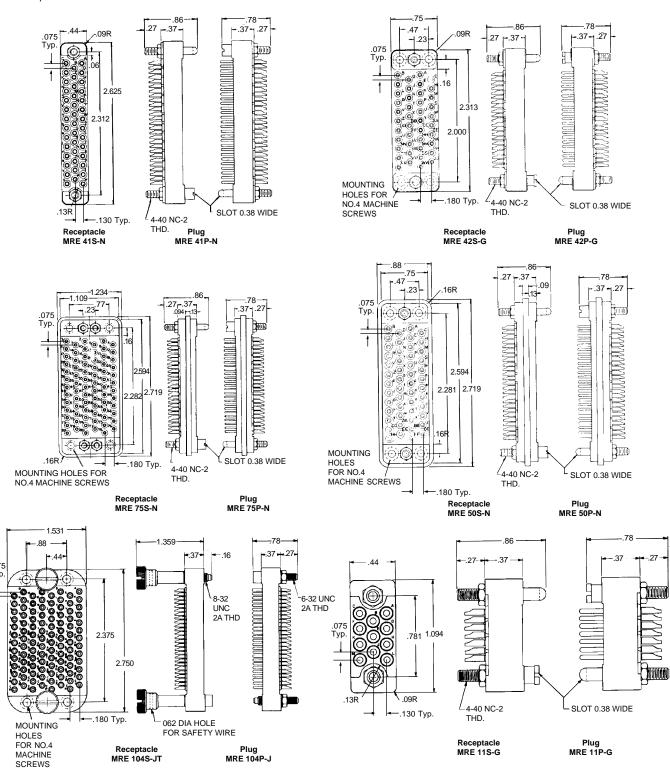
Dimensions are for reference only and are subject to change. Outline drawings on request.



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

OUTLINE

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

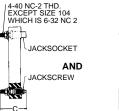


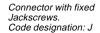
Miniature Rectangular / #20 Contacts / .040" Dia. / 7.5 Amps

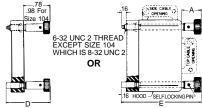
Polarized jackscrews give the ease and assurance of threaded positive coupling. The actuating side consists of two turnable screws, one male and one female, each with knurled and slotted knobs. On the mating half are the two fixed screws required to complete the locking action. When mated, the jackscrews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

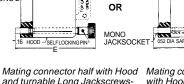
JACKSCREWS & JACKSOCKETS







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

13

DIMENSIONS

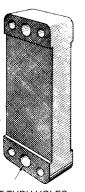
Dimensions are for reference only and are subject to change. Outline drawings on request.

Connec-	Di	men	sion	Α	Di	men	sion	В	Dimen	Dimen	D	imen	sion	E	Dii	mens	ion F	=
tor Size	Н	H1	H8	H9	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	-	-	-	-	-	-	.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

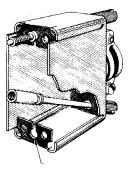
New Monojacks Assemble and Disassemble With Remarkable Ease and Speed

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.



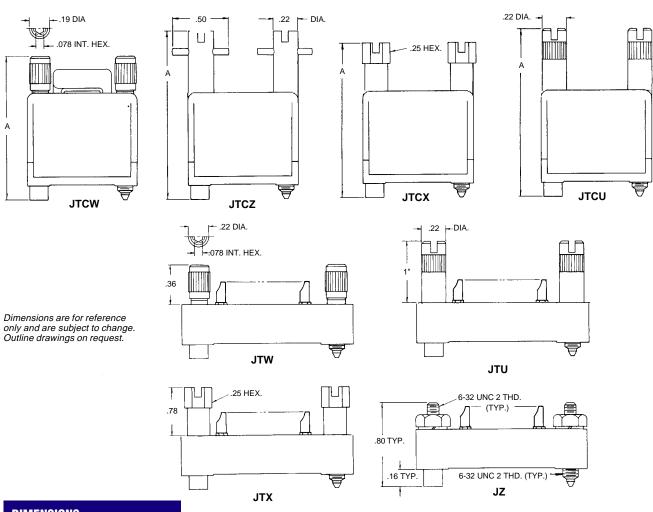
MOLDINGS HAVE STRAIGHT THRU HOLES



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.

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

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.

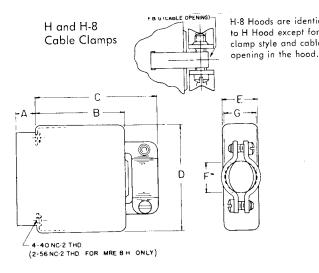
Hood Type

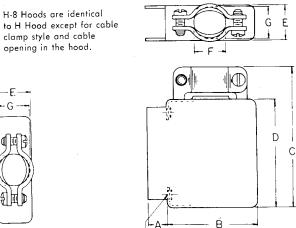
Size		Туре	JTCW		Size		Туре	JTCU		Size		Туре	JTCX		Size		Туре	JTCZ	
SIZE	Н	H1	H8	H9	SIZE	Н	H1	Н8	H9	SIZE	Н	H1	H8	Н9	Size	Н	H1	Н8	Н9
	С	imens	ion A			D	imens	ion A			С	imens	ion A			D	imensi	on A	
7	_	1.91	1.91	-	7	-	2.16	2.16	_	7	-	2.03	2.03	-	7	-	2.16	2.16	_
9	-	2.22	1.91	2.22	9	-	2.47	2.16	2.47	9	_	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

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

OUTLINE HOODS - FORMED ALUMINUM

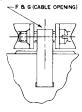
Dimensions are for reference only and are subject to change. Outline drawings on request.





4-40 NC-2 THD

(2-56NC-2 THD FOR MRE 8H-1 ONLY)



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

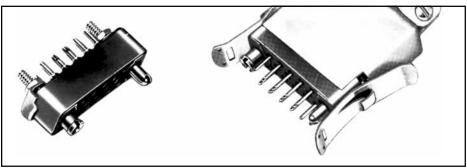
Code No.		Din	nensi	ons		Cab Open		Wt.	Fits
	Α	В	С	D	Е	F	Ð	Oz.	Connector
MRE 7H*	.28	1	1.31	1.22	.44	.31D	_	.3	MRE 7 (P or S)
MRE 7H-8	.28	1	1.30	1.22	.44	.59	.31	.3	MRE 7 (P or S)
MRE 8H*	.28	1	1.31	.81	.44	.25D	-	.2	MRE 8 (P or S)
MRE 8H-8	.28	1	1.30	.81	.44	.31D	_	.2	MRE 8 (P or S)
MRE 9H*	.28	1	1.31	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	/ENSI	ONS	SEE	PAGE	RP/	36	

 $^{^{\}ast}$ H Hoods for MRE 7, 8, 9, 14, 18 and 20 will not accept JTC hardware. Use H8 hoods.

Side Cable Opening

Code No.		Din	nensi	ons		Cab Open		Wt.	Fits
	Α	В	С	D	Е	F	G	Oz.	Connector
MRE 7H-1	.28	1.28	1.53	1.22	.44	.31D	ı	.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	ONS	SEE	PAGE	RP/3	6	

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



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
 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

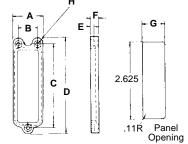
are provided for safety wiring. Vibration locks are available separately for assembly on connectors now in service. Each code number indicates two units: two levers with two pivots, and two lock tabs.

*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	E	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



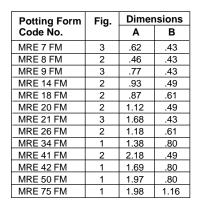
MRE 50 and MRE 75 connectors use the standard MRE 50 and MRE 75 mounting brackets

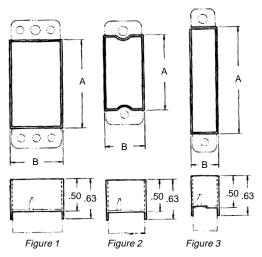
DIMENSIONS / OUTLINE PRE-SHAPED NYLON POTTING FORMS

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.



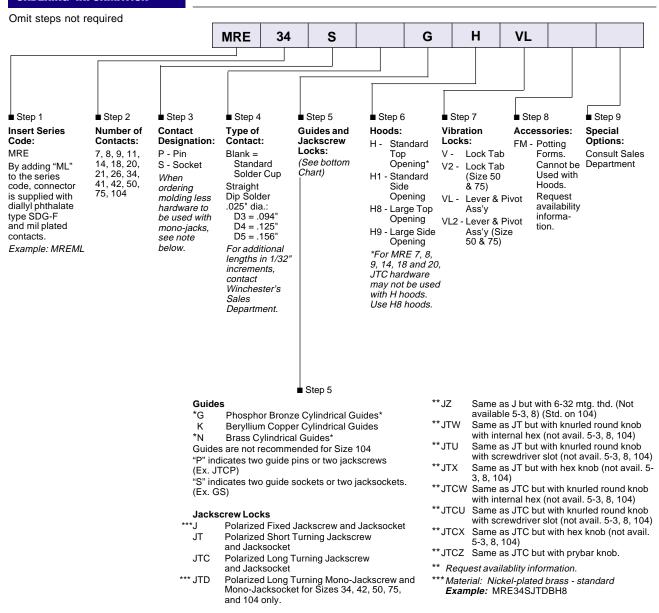


Winchester

62 Barnes Industrial Road North, Wallingford, Connecticut 06492 Phone: (203)741-5400 Fax: (203)741-5500 www.winchesterelectronics.com

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

ORDERING INFORMATION



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

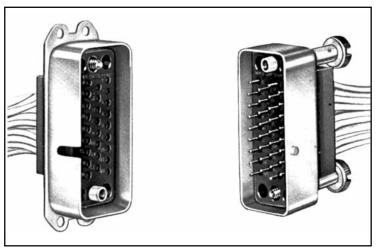
Mounting Note: Connectors MRE 41, MRE 26, and smaller use guides for mounting in a hood or on a panel. Connectors MRE 34, MRE 42, MRE 50, MRE 75, use four #4 machine screws, in addition to guides, for mounting in a hood or on a panel.

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).



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 Contacts:

XMRA - 9, 14, 20, 34, 42, 50,

50-8, 66, 75, 104 XMRE - 9, 14, 18, 20, 26, 34,

42, 50, 75, 104

Pin Contacts: XMRA - .062 diameter, gold

plated brass

XMRE - .040 diameter, gold

plated brass

Socket

Contacts:

Termination

Types:

Phosphor bronze plated gold.

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 quide pins and sockets are alternative methods of

polarization.

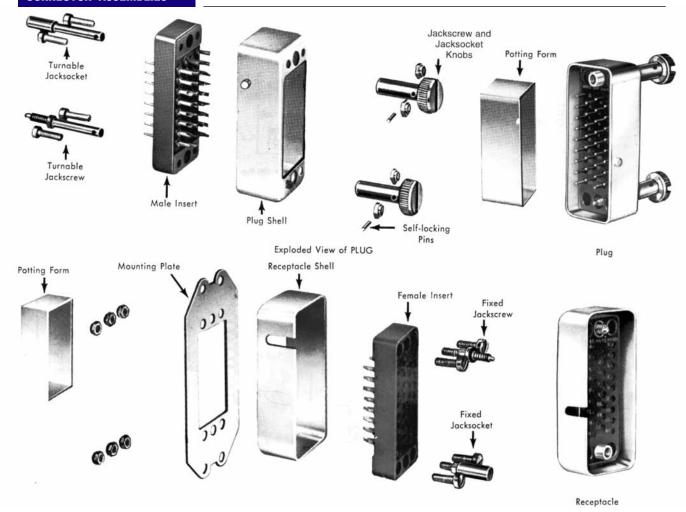
Anodized Aluminum. May be Hoods:

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

available.

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

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.

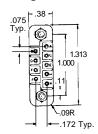
Potting: A method of moisture-proofing the back of a plug or receptacle and the soldered wire connections by injecting a free flowing sealing compound into a pre-shaped form and allowing it to set. The result is a homogeneous mass, chemically bonded to the back of the insert and around the soldered connections.

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.

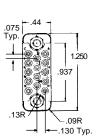
OUTLINE

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

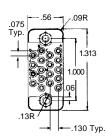
Contact Arrangements



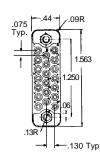
9 Contacts XMRE 9 or XMRA9



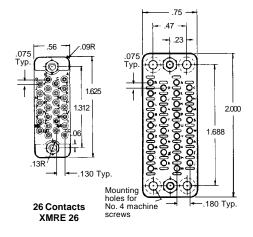
14 Contacts XMRE 14 or XMRA 14



18 Contacts XMRE 18



20 Contacts XMRE 20 Or XMRA 20



Typ <u></u> 2.000 ,©® 1.688 -.180 Тур. holes for No. 4 machine

.23

.75 .23 Тур. **(** 2.594 2.000 2.719 2.281 .180 Typ Mounting holes for Mounting No. 4 machine screws No. 4 machine screws -.180 Tvp

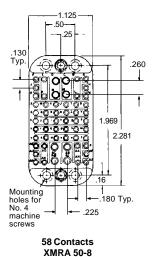
34 Contacts XMRA 34

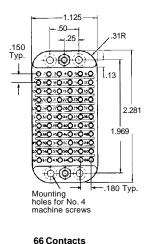
34 Contacts XMRE 34

42 Contacts XMRE 42 or XMRA 42

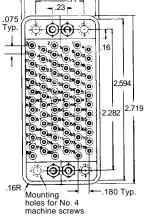
1.109

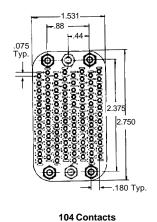
50 Contacts XMRE 50 or XMRA 50





XMRA 66





75 Contacts XMRE 75 or XMRA 75

XMRE 104

XMRA 104

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

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

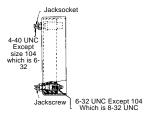
JACKSCREWS & JACKSOCKETS

Jackscrew Locking Devices

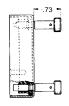
Polarized jackscrews offer the ease and assurance of threaded positive coupling. They are particularly desirable for the larger connectors (XMRE 34 and larger) whenever they are to be used in locations that make it difficult to apply enough direct pull to separate the two halves of the connector.

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.

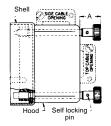
OUTLINE



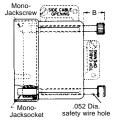
Connector with fixed Jackscrews Code designation: F



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



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



Code designation: C-0300, C-0400

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	-
VINIE	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:

Guide Pin:

Phosphor

Brass

FINISH

Gold over Nickel

bronze. "K" Socket: Beryllium copper. "N" Socket: Brass.

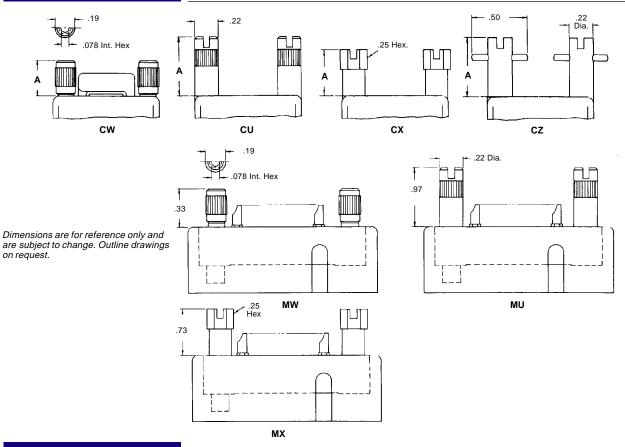
Winchester

62 Barnes Industrial Road North, Wallingford, Connecticut 06492 Phone: (203)741-5400 Fax: (203)741-5500 www.winchesterelectronics.com

XMRA & XMRE Series

External Miniature Rectangular / #16 Contacts / .062" Dia. 13 Amps = #20 Contacts / .040" Dia. / 7.5 Amps

OUTLINE JACKSOCKETS



DIMENSIONS

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

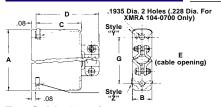
All knobs are aluminum, anodized except MW and CW which are stainless steel, passivated.

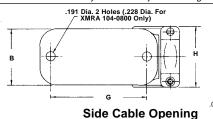
Jackscrew Locking For Series XMRE, XMRA

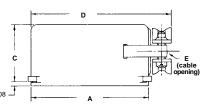
Size	0300	0400	0300X	0400X	0700	0800	Size	0300	0400	0300X	0400X	0700	0800
		Dimen	sion A -	Type C\	Ν				Dimen	sion A -	Type CI	J	
9	_	.36	.34	.36	_	_	9	_	.61	.59	.61	_	_
14	-	.36	.34	.36	_	_	14	-	.61	.59	.61	_	_
18	-	.36	.34	.36	_	-	18	-	.61	.59	.61	_	-
20	ı	.36	34	.36	ı	_	20	-	.61	.59	.61	ı	_
26	.36	.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	-	_	-	-	.47	.47	66	-	_	_	-	.72	.72
75	.33	.33	.33	.33	-	_	75	.58	.58	.58	.58	-	-
Size	0300	0400	0300X	0400X	0700	0800	Size	0300		0300X			0800
		Dimer	sion A -	Type C	X				Dimer	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	_	_	-	-	.61	.61	50-8	-	-	-	-	.72	.72
66	_	_	-	-	.61	.61	66	-	-	-	_	.72	.72
75	.45	.45	.45	.45	_	_	75	.58	.58	.58	.58	_	_

DIMENSIONS 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	С	D	Е	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			Dir	nensi	ons		
	Part Number	Α	В	C	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		2.38	1.22	1.16	2.91	.84D	1.34	_
Guides or Type	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	Type C G, K, or N, Type Jacksockets & Guides *				Dimensions				
Monojacks		Hood Part No. (If ordered separately)		В	С	D	E Dia.	F Dia.	Wt. Oz.	
		XMRE 9-0500	1	1.31	1.31	.44	.31	_	0.0	
	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	15	

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

AMINE TO GOODAD	MINICE TO GOODA	MINICE TO COCCA			12.00			1.00	
For use with	For use with Type C Jacksockets & Jackscrews G, K, or N, Type Guides *		Dimensions				Ca Ope		
Monojacks	Hood F	Part No.					Е	F	Wt.
Monojacks		separately)	Α	В	С	D	Dia.	Dia.	Oz.
	XMRE 9-0400	XMRE 9-0600	1.28	1.31	1.63	.44	.31D	_	0.3
	XMRE 9-0400X	XMRE 9-0600X	1.28	1.31	1.61	.44	.59	.31	0.3
	XMRE 14-0400	XMRE 14-0600	1.28	1.25	1.69	.5	.38D	_	0.3
	XMRE 14-0400X	XMRE 14-0600X	1.28	1.25	1.55	.5	.59	.38	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	0.5
	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	0.5
	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	5.5
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	

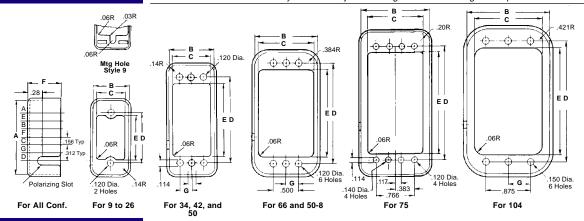
(cable opening) 0400X & 0600X Style Cable Clamp

Side Cable Opening

^{*} 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

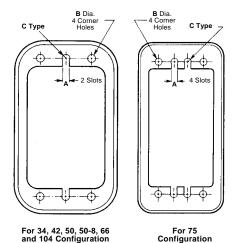
Shells are aluminum, anodized for protection against corrosion. Either shell style - plug or receptacle - may be used to house the female insert, thus allowing the "live" socket contacts to be cable or panel mounted, as desired. Shells also provide a means by which connector polarization is accomplished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

(if ordered			Dii	mensio	ons			Wt.
separately)	Α	В	С	D	Ε	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								
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

Shell Part No.



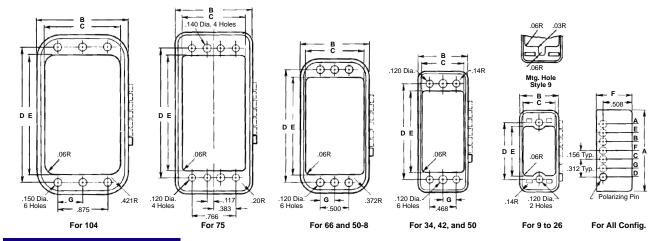


Receptacle Shell Style Number 2000

Shells are .040 in. thick.

OUTLINE **SHELLS - PLUG**

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

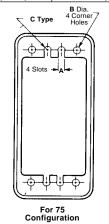


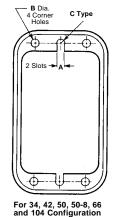
DIMENSIONS

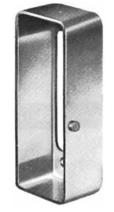
Shell Part No. (if ordered			Wt.					
separately)	Α	В	С	D	Ε	F	G	Oz.
XMRE 9-1*000	1.44	.5	.38	1.000	.88	.63	_	0.14
XMRE 14-1*000	1.38	.56	.45	.937	.81	.63	_	0.15
XMRE 18-1*000	1.44	.69	.58	1.000	.88	.63	_	0.16
XMRE 20-1*000	1.69	.56	.45	1.250	1.13	.63	_	0.18
XMRE 26-1*000	1.75	.69	.58	1.312	1.19	.63	_	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.

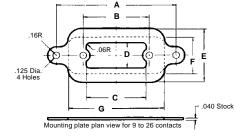
OUTLINE MOUNTING PLATES

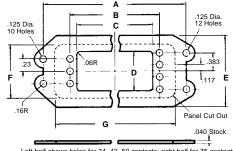
Dimensions are for reference only and are subject to change. Outline drawings on request.

Mounting Plates for External Miniature Rectangular Connectors, **Potting Forms**

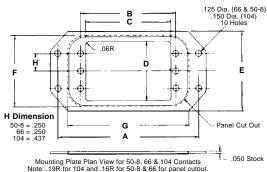
Mounting Plates enable attachment of a connector to a wall, bulkhead, or other supporting surface. The plate is assembled to the back of a plug or receptacle by employing the same hardware and/or guides used to retain the insert in the shell; No. 4 machine screws are then used to mount the complete assembly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

Mounting plates are aluminum, anodized to resist corrosion.





Left half shows holes for 34, 42, 50 contacts; right half for 75 contacts only. Each plate is symmetrical about the indicated center line.



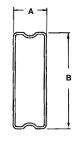
DIMENSIONS

Mounting Plate Part No. (If Ordered		D:	mensio	Pa Cu	Wt.			
,		ווט	nensio	1115		Cu	VVI.	
Separately)	Α	В	С	D	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

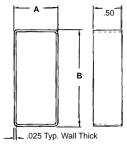
OUTLINE **POTTING FORMS**

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

DIMENSIONS

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)	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.

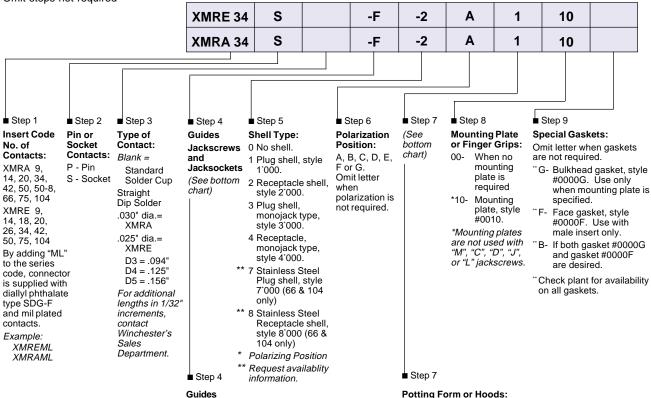
Winchester

62 Barnes Industrial Road North, Wallingford, Connecticut 06492 Phone: (203)741-5400 Fax: (203)741-5500 www.winchesterelectronics.com

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

ORDERING INFORMATION

Omit steps not required



- 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

- 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.
- Polarized fixed jackscrew and jacksocket.
- 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

SLE-SME-SRE Series

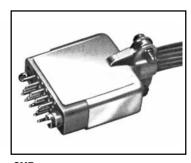
Sub Miniature / High Density Rectangular / .025" Dia. / 3 Amps .030" Dia. / 5 Amps / .040" Dia. / 7.5 Amps



SLE
.025 Diameter Contacts —
3 Amps.



SRE
.030 Diameter Contacts — 5 Amps



.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.

SDG-F

Hoods:

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.

Anodized aluminum. May be

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

or jackscrews.

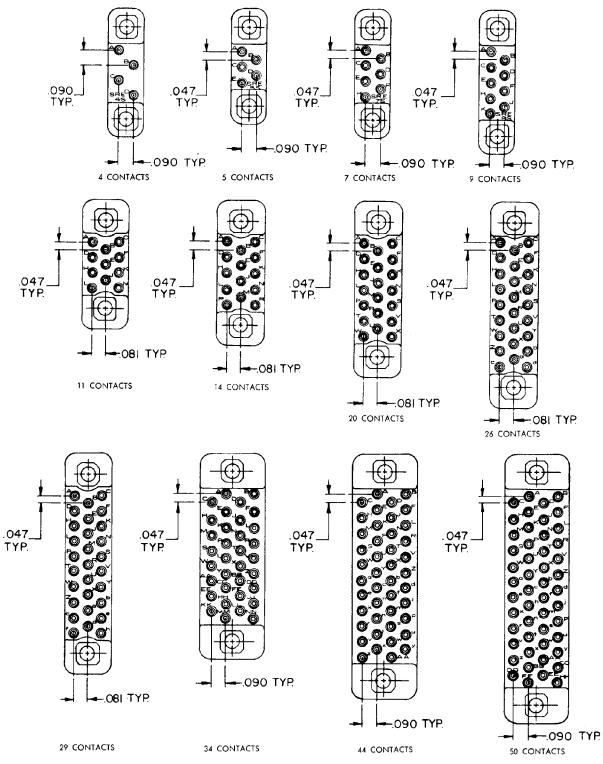
SLE-SME-SRE Series

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

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.

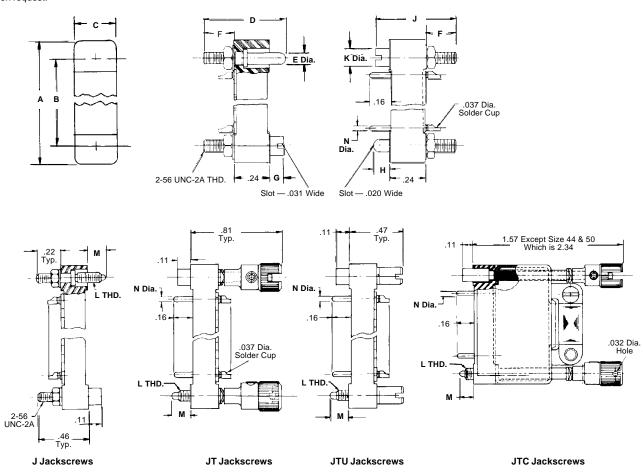


SLE-SME-SRE Series

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

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	L1	Γhd	M	N
SLE	.62	.08	.24	.10	.14	.59	.125	2-56	UNC	.15	.025
SRE	.57	.09	.22	.11	.12	.57	.137	3-48	UNC*	.12	.030
SME	.62	.08	.24	.10	.14	.59	.125	2-56	UNC	.15	.040

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

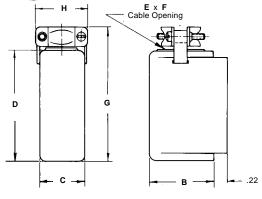
SLE-SME-SRE Series

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

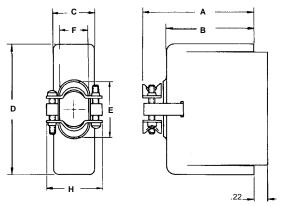
OUTLINE

Hoods Formed Aluminum

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



Style H9 — Side Cable Opening



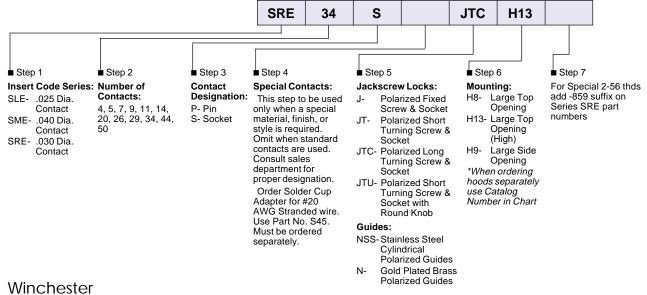
Style H8 / H13 — Top Cable Opening

DIMENSIONS

Hood Style	Hood Catalog Number			Dime	nsions	5		Ca Ope	No. of Con-		
Otylo	Guides Only*	Α	В	С	D	G	Н	Е	F	acts	
Н8	SRE11H8	1.02	.72	.33	.78	_	.53	.28	.28	11	
Н8	SRE50H8	1.80	1.50	.45	1.63	_	.63	1.19	.38	50	
Н9	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	1.34	-	.53	.41	.25	29	
NOT AVAILABLE											

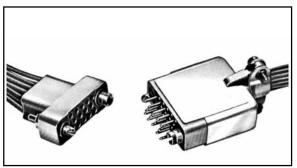
ORDERING INFORMATION

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



SREC Series

Sub Miniature Rectangular, Removable Contacts



SREC 14SN

SREC 14PNH13



Tool 107-1012

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

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

SPECIFICATIONS

Current Rating: 5 amps

No. of

Contacts: 7, 11, 14, 18, 20, 26, 34,

44, 50

Pin Contacts: .030 dia. 4 indent crimp.

Leaded commercial bronze,

gold plated.

Socket
Contacts: Phosphor bronze,

gold plated.

Termination

Types: Crimp or .025 sq. wire wrap.

Crimp contacts will accommodate #20-#28 AWG

stranded wire.

Dielectric: Glass-filled diallyl phthalate

per MIL-M-14, SDG-F.

Electrical Data: The dielectric withstanding

voltage is one minute electrification at 1400 VAC.

Jackscrews: Long and short turning,

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

Guides: Type N is standard - brass for

extra mechanical strength.

Type K - beryllium copper for high electrical conductivity.

Type NSS - stainless steel

Hoods: Top opening hoods are

available in all sizes. Side opening available for

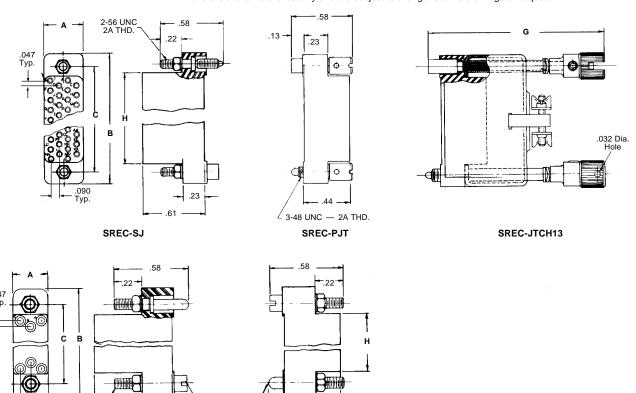
SREC 50 only.

SREC Series

Sub Miniature Rectangular, Removable Contacts

OUTLINE

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



DIMENSIONS

2-56 UNC 2A THD.

SREC-SN/K

DI	MENSI	ON CH	ART								
No. of Contacts A B C G H											
7	.20	.78	.56	1.67	.41						
14	.28	.88	.63	1.67	.50						
20	.28	1.06	.81	1.67	.69						
26	.28	1.25	1.000	1.67	.88						
34	.39	1.25	1.03	1.67	.88						
50	.39	1.63	1.40	2.45	1.25						

SREC-PN/K

PHYSICAL DATA

SREC 11, 18 and 44 outline drawings on request

Slot .031 Wide Slot .020 Wide

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		.20
Component Parts		Guid	Guide Pin		uide Socket	L Washe	er (2)		Nut (2)
Weight in Ou	inces	.0)2		.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	_	J Allip		
100-4020S	S (Female)	20-22	.48	_	.046	_			

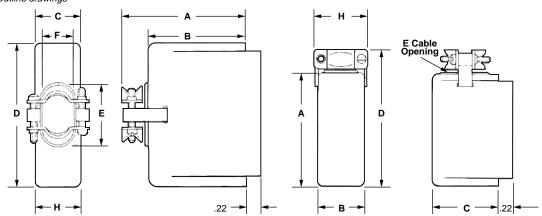
Polarizing Pin: Brass, Gold Plated, Part No. 109-8565

SREC Series

Sub Miniature Rectangular, Removable Contacts

OUTLINE FORMED ALUMINUM HOODS

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



DIMENSIONS

SRE/SREC Large Top Opening Hoods

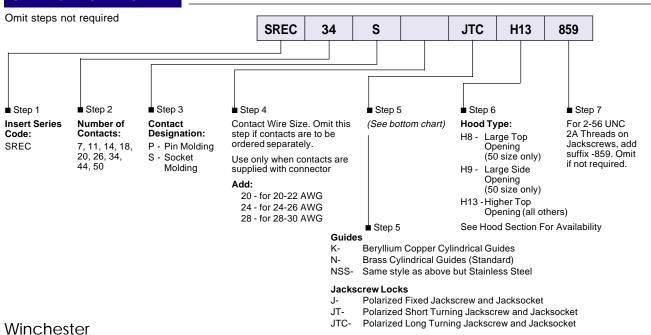
Code No.*	ı	Dimer	sions	5	Ca Ope			Fits Connector
	Α	В	С	D	Е	F	Н	
SRE7H13	1.02	.75	.25	.78	.22	.16	.53	SRE 7 P/S SREC 7 P/S
SRE14H13	1.02	.75	.34	.88	.38	.25	.53	SRE 14 P/S SREC 14 P/S
SRE20H13	1.02	.75	.34	1.06	.38	.25	.53	SRE 20 P/S SREC 20 P/S
SRE26H13	1.02	.75	.34	1.25	.41	.25	.53	SRE 26 P/S SREC 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							Fits
No.*	Α	В	С	D	E	Н	Connector
SRE50H9	1.63	.45	1.50	1.92	1.19 x .38	.63	SRE 50 P/S SREC 50 P/S

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

ORDERING INFORMATION



42 Series

Panel Mount Miniature

22 AWG - .030" Diameter - 5 Amps



TERMINATION TYPES

Dip Solder:

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

available on special order.

Grid Spacing: .100" x .100" grid

50 or 74 contact positions on .100" centers in 3 rows. Two outboard rows for 25 contacts each. Center row either for 24 additional contacts or polarizing pins in specified positions.

Solder Cup:

Accommodates up to #22 AWG stranded wire.

Crimp Removable:

Crimp contacts available for #20 through #30 AWG

stranded wire. Designed for four indent crimp. See crimp

tooling.

POLARIZATION

Available in 50 contact configuration only. Choice of any combination of 24, center positions. Specify polarizing positions required. Positions top to bottom are: A, B, C, D, E, F, H, J, K, L, M, N, P, R, S, T, U, V, W, X,

Y, Z, a.b.

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

SPECIFICATIONS

Current Rating: 5.0 amps.

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 crimp removable contacts.

Housing Material:

Types:

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

Passivated stainless steel, Jackscrews: anodized aluminum knobs.

Hoods: 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.

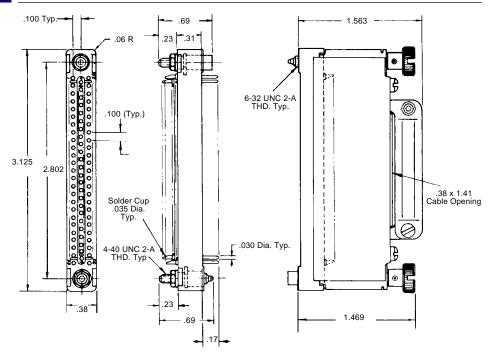
42 Series

Panel Mount Miniature

22 AWG - .030" Diameter - 5 Amps

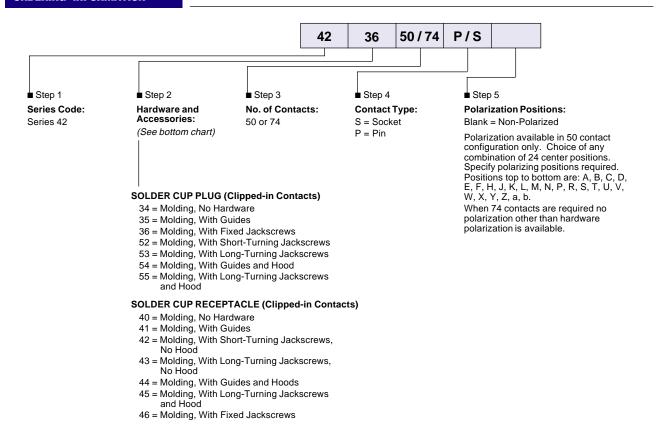
OUTLINE

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



Solder Cup, Clipped-in Contacts

ORDERING INFORMATION



42 Series

Panel Mount Miniature

22 AWG - .030" Diameter - 5 Amps

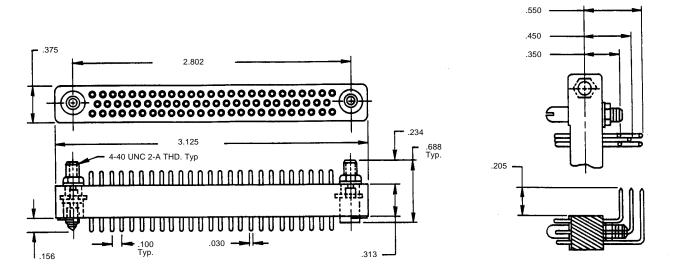
OUTLINE

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

Dip Solder Receptacle

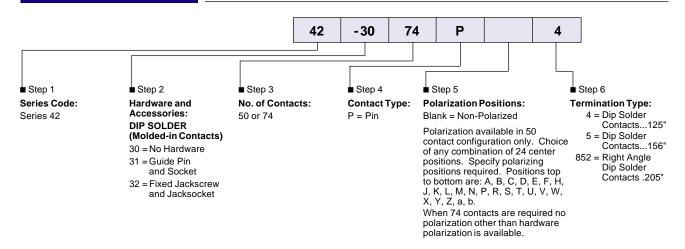
Shown

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



Dip Solder, Molded-in Contacts

ORDERING INFORMATION

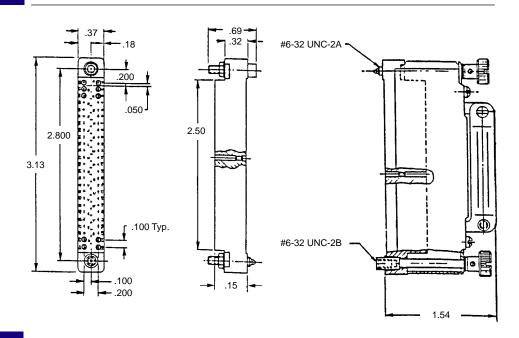


42 Series

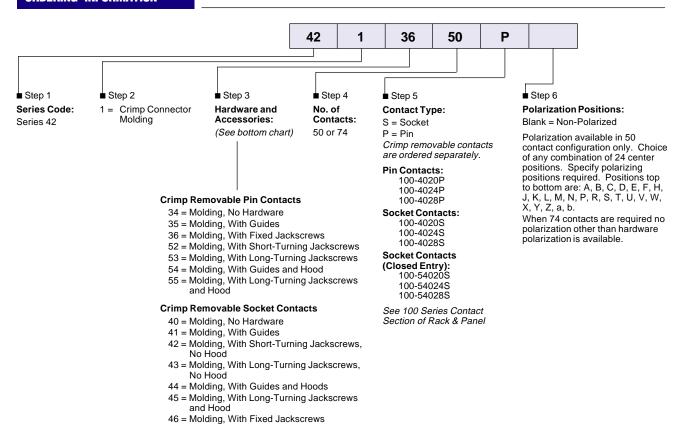
Panel Mount Miniature

22 AWG - .030" Diameter - 5 amps

OUTLINE



ORDERING INFORMATION



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

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



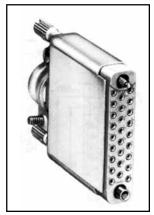
XSRM14PNSS2500



XSRM14PNSS1000



SRM14SNSS0000



SRM26SCO300





SPECIFICATIONS

Current Rating: 7.5 Amps

No. of Contacts:

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

75, 104

Pin Contacts: .040 dia. brass, gold plated.

Socket 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.

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

Guides: NSS Type, stainless steel; or

N Type, brass.

Jackscrews: Stainless steel with knurled and slotted aluminum knobs.

Anodized aluminum. May be Hoods: applied to either plug or

receptacle. Both top and side openings are available.

Shells: Polarized shells are available. SRM connector assembled

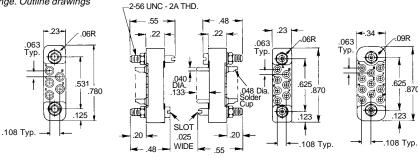
with a shell changes part number from SRM _ _ _ _ to

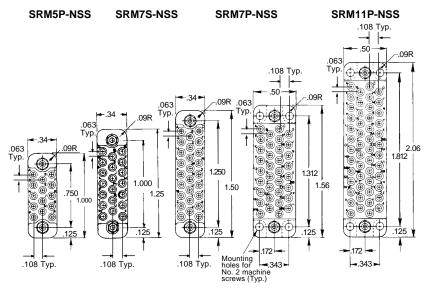
XSRM ____.

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

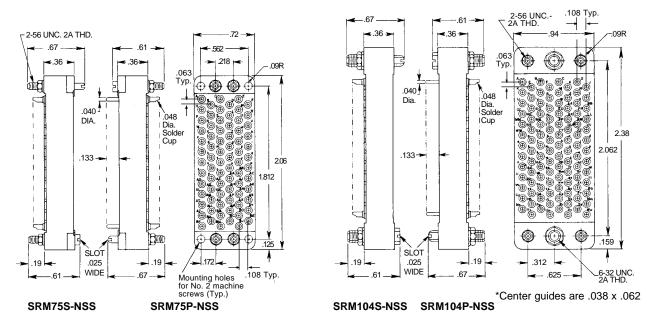
CONTACT ARRANGEMENTS

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





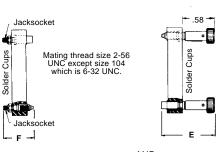
SRM14P-NSS SRM20P-NSS SRM26S-NSS SRM34P-NSS SRM50P-NSS



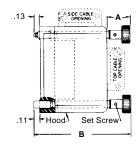
Sub Miniature Rectangular #20 Contacts / .040" Dia. / 7.5 Amps

OUTLINE JACKSCREWS & JACKSOCKETS

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



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

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	Α	В	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.

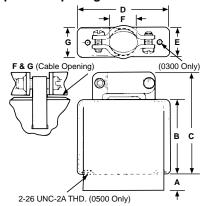
TYPE		Code Letter
Jackscrew Jacksocket	Fixed	F
Jackscrew Jacksocket	Short Turnable	М
Jackscrew Jacksocket	Long Turnable	С
Knob	Standard	_

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

HOODS - FORMED ALUMINUM

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

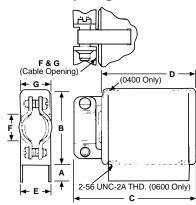
Top Cable Opening Hoods



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.		Dimensions			Cable Opening		
	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.		Di	men	sions	5	Cal Ope		Code No.	Dimensions			6	Cable Opening		
	Α*	В	С	D	Ε	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.

Winchester

^{**}Request availability information.

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

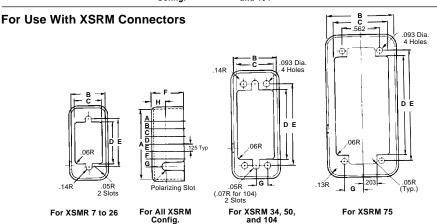
PLUG SHELLS

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

For Use With XSRM Connectors OSR (Typ.) OBR (Typ.)

RECEPTACLE SHELLS

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



MATERIAL

POLARIZATION

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.

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

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

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

DIMENSIONS

Plug Shells (.031" thick)

Shell Part No. (if ordered	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			

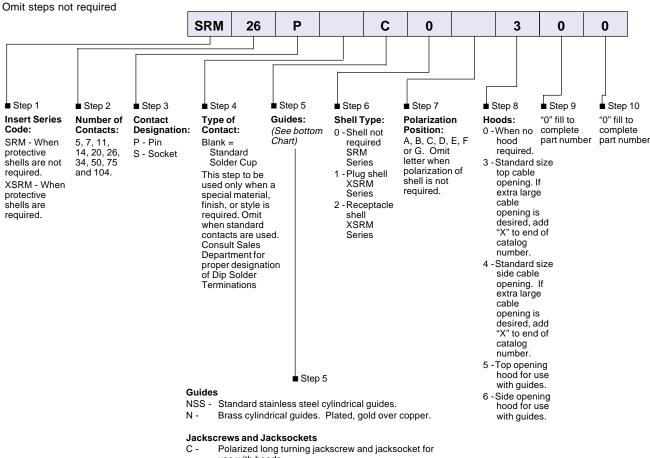
Receptacle Shells (.031" thick)

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

SRM Series

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

ORDERING INFORMATION



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

PM1 Series

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









N Nylon Nut

PM1SLR
Plug with lock ring

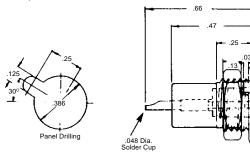
PM1PLS
Receptacle with lock spring

H10 Hood

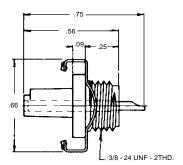
This connector was developed for applications requiring moderately high voltage ratings, this single contact connector is particularly well adapted to Photo-Flash, Aircraft, Instumentation and Communications Equipment.

OUTLINE

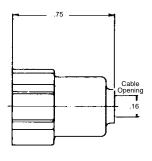
Dimensions are for reference only and are subject to change. Outline drawings on request.



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

Dielectric:

Contacts: Phosphor bronze, gold plated

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

wire.

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

receptacle with respect to

each other.

Cable or panel mounted. Use

nylon nut applied to either plug

or receptacle.

Lock Ring (and

Mounting:

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 **N-** to above numbers when ordering nylon nut

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

PM6 Series

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



N Nylon Nut



PM6SLR Receptacle with lock ring



PM6PLS
Plug with lock spring

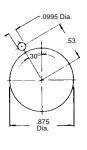


PM6H Hood

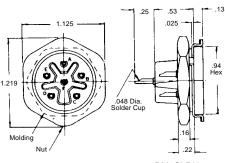
This connector was developed for applications requiring moderately high voltage ratings, this connector of minimum bulk and weight is particularly well adapted to Photo-Flash, Aircraft, Instumentation and Communications Equipment.

OUTLINE

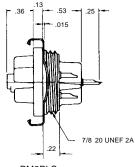
Dimensions are for reference only and are subject to change. Outline drawings on request.



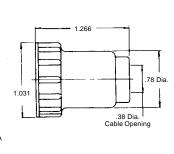
Panel Drilling



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

PM6PLS- Connector, plug with lock spring **PM6SLR-** Connector, receptacle with lock ring

PM6PLR- Connector, plug with lock ring

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

Rack & Panel

SM Series

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







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 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 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 rearing	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

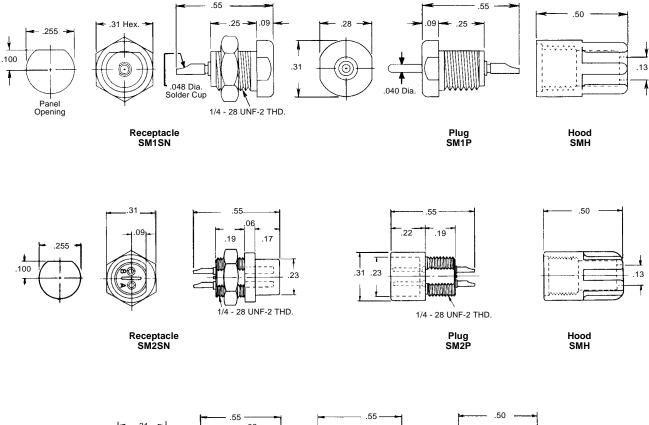
Mounting:

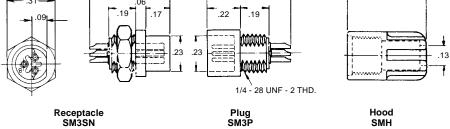
SM Series

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

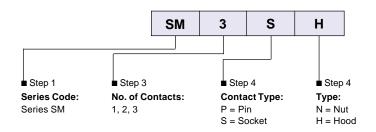
OUTLINE

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





ORDERING INFORMATION



M Series

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



M4PLSH10Plug with lock spring and hood



M4SLRGN
Receptacle with lock ring, ground lug and nut



M10SLRN
Receptacle with lock ring and nut



M10PLSH19
Plug with lock spring and hood



N Nylon Nut



M12SLS12
Receptacle with lock spring



M12P Plug



M12H Hood with lock shell

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

SPECIFICATIONS

Current Rating: 7.5 amps

No. of Contacts:

4, 5, 7, 9, 10, 12

Pin Contacts: .040 dia. brass, gold plated

Socket

Contacts: Spring temper phosphor

bronze, gold plated

Terminations: .048 dia. solder cup accepts

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

stranded wire.

Electrical Data: The dielectric withstanding

voltage is one minute electrification at 1500 VAC. (2250 VAC for M12).

Dielectric:

Brown mineral filled diallyl phthalate. Also available in gray glass filled diallyl

phthalate, per MIL-M-14, SDG-F.

Polarization: Body design permits engage-

ment in proper position only.

Mounting: For 1/16" panel mounting of

either plug or receptacle use cadmium plated brass nut for M4-10, nylon nut for M12. Add "N" to code number.

Lock Ring (and

Hood:

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.

Anodized aluminum or brown mineral filled diallyl phthalate

hoods may be applied to plug or receptacle of M4-M10. With or without cable clamps to provide additional strain relief

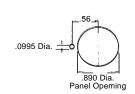
for the cable.

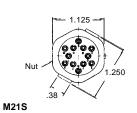
M Series

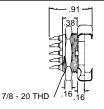
High Voltage Miniature / #20 Contacts / .040" Dia. / 7.5 Amps

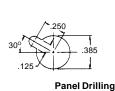
OUTLINE

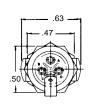
Dimensions are for reference only and are subject to change. Outline drawings on request.

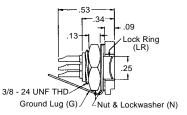


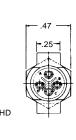




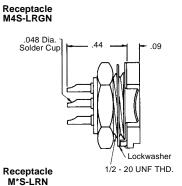


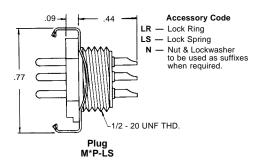


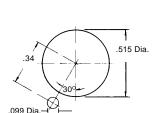




.55 (See Views Below) .66







.56 A/F Hex Nut





Contact Arrangement



Contact Arrangement



Contact Arrangement M9S



Contact Arrangement M10S

PHYSICAL AND ELECTRICAL DATA

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 Oui	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

M Series

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

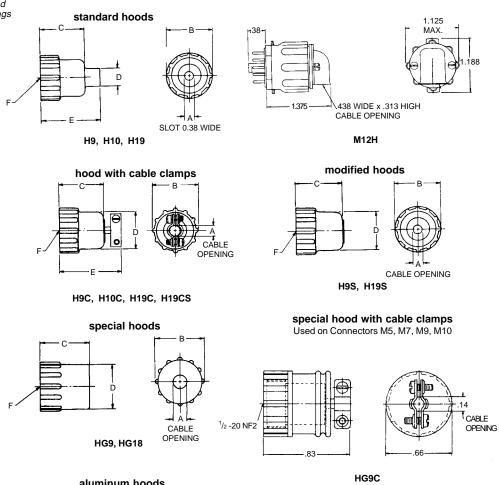
MOLDED DIALLYL PHTHALATE AND ALUMINUM HOODS

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

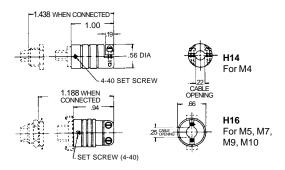
hoods are precision machined from bar stock to give greater strength than die cast units. Cable clamps are machined as an integral part of the connector. The set screw prevents accidental disassembly from vibration, etc. A polyethylene sleeve liner provides added insulation in the terminal area.

OUTLINE

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



aluminum hoods



Rack & Panel

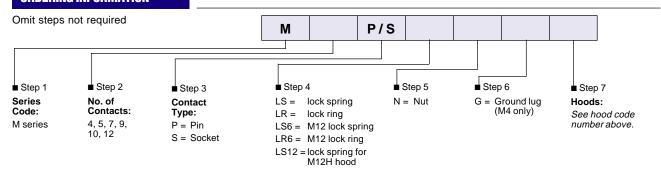
M Series

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

PHYSICAL DATA

Hood	Used on .			DI	MENSION	IS		
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			.06			
HG9	M5, 7, 9, 10	.22			.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

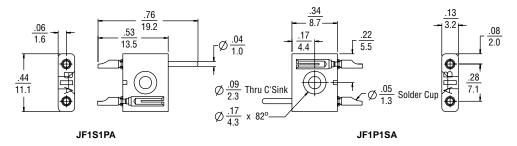
OUTLINE

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

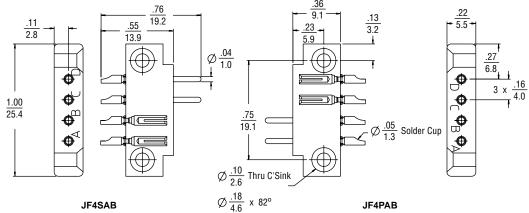
JF Series, PIN and Socket, 2 Position In-Line Connectors

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



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

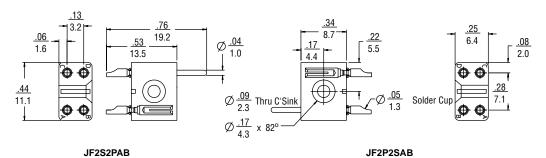
Dimensions shown are typical for all standard 4 position in-line connectors.



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

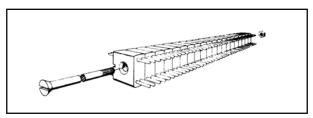
JF Series, PIN and Socket, 4 Position Rectangular Connectors

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



JF Series

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



JF-2P 20 connectors assembled

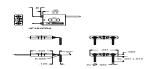
The versitile JF Series has a countersunk mounting hole and narrow width permitting exceptionally flat mounting. Maximum circuit density is provided with many positive polarizations. "Custom" multi-contact connectors are readily available by using the building block technique shown above.

OUTLINE

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

Typical Connector With DIP Solder Termination

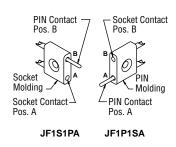
JF Series connectors may be ordered with dip solder and right angle terminations. Consult factory for availability.

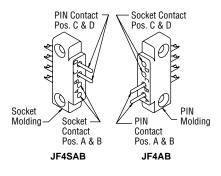


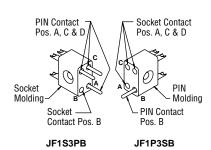
Straight Dip Solder



Typical Connectors Assemblies



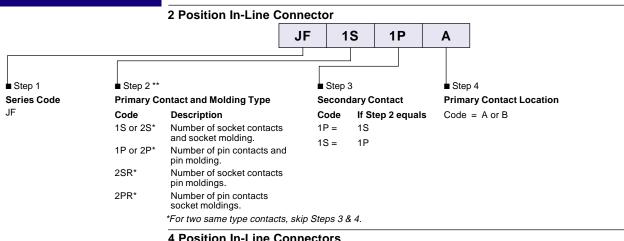




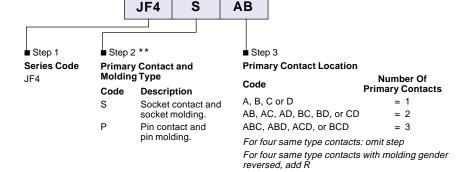
JF Series

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

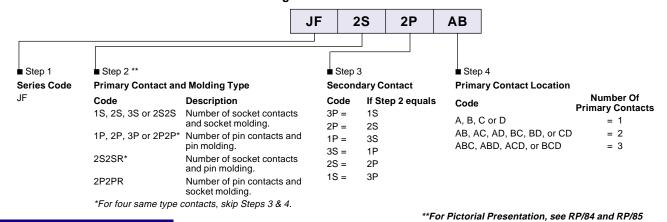
ORDERING INFORMATION



4 Position In-Line Connectors



4 Position Rectangular Connector



SPECIFICATIONS

Materials **Performance Characteristics** Dielectric Moldings (PIN

Withstanding Diallyl Orthophthalate and Socket): Voltage: Pin Contacts: .040 Brass, gold plated

Socket

Contacts:

Phosphor bronze,

gold plated

Current Rating: 7.5 Amps

Operating

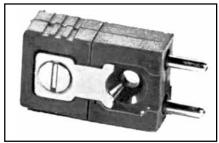
Temperature Range: -55°C to +125°C

Termination Type: .050 dia. solder cup to accept #20 AWG stranded wire.

1500 VAC (at sea level)

JFA Series

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



JFA2H — JFA2P Hood and plug



JFA2S Receptacle



JFA2H Hood

For applications in electronic and communications equipment requiring miniature connectors with high current capacity.

Series JFA miniature connectors may be used in television, radio and communications equipment. The countersunk side mounting hole and narrow width permits exceptionally flat mounting —thereby minimizing connector protrusion when installed on equipment

SPECIFICATIONS

Current Rating: 13 amps

No. of Contacts:

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

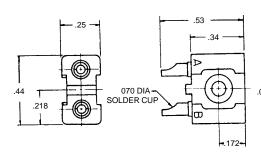
Hood: Locked to connector by

means of two side mounted

straps.

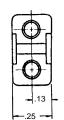
OUTLINE

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



53 JFA 2 .0625 DIA α .089 DIA HOLE .203 DIA. X 82º C'SINK BOTH SIDE S (TYP)

JFA-2S JFA-2P Receptacle Plug



.22

JFA-2H Hood

PHYSICAL DATA AND **ORDERING INFORMATION**

Physical Data

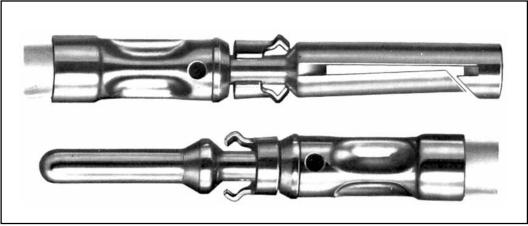
,				
Code Number	Number of Contacts	Current Rating Amps	Wire Size A.W.G.	Weight Ozs.
JFA-1P1S	1 Pin 1 Socket			.082
JFA-2PH JFA-2SH (with hoods)	2 Pins 2 Sockets	13	#16	.059 .046
JFA-1S1P	1 Pin 1 Socket			.082
JFA-2P JFA-2S (no-straps- on hoods)	2 Pins 2 Sockets	13	#16	.059 .046

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

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

Note: Series 100 Removable Contacts are not supplied with the

connector. They must be ordered as a separate item.

Removable Contacts

100 SERIES CONTACTS

Manual M		Reeled			Diam	meter						For Loose Contacts	Contacts		For	For Loose Contacts	acts	For	For Reeled Contacts	Sto
		Contact Part Number 2,000/Reel			(See Dr.	awings) B				AMPS per Cont	Locator	Hand Tool	Pneumatic To ol	Gage Plug Part Number	Hand Tool Part Number	Positioner Part Number	ge Plug Part umber	Pneum Tool P Numb	Depth Block Part Number	Gage Plug Part Number
He-Fee Mode, Merker, Control Mode, Merker, Control Mode Mode, Merker, Control Mode, Merker, Merker, Control Mode, Merker, Merker, Control Mode, Merker, Merker	100-1014P			MRAC, TMRAC, XAC, TXAC		.105	.062	Crimp Contact	-	13		107-0903-2A	107-0918	5431-22	107-0970	107-0981	5431-17	107-0961	107-0966	5431-14
46.45.20 CMCMARA CMC CMCMARA CMCMARA CMCMARA CMC 100-0907 CMC 100-0907 <td>100-10148</td> <td>100-09198</td> <td></td> <td>MRAC, TMRAC, XAC, TXAC</td> <td>.081</td> <td>.105</td> <td>.062</td> <td>Crimp Contact</td> <td>2</td> <td>13</td> <td>107-0945</td> <td></td> <td>107-0918</td> <td>5431-22</td> <td>107-0970</td> <td>107-0981</td> <td>5431-17</td> <td>107-0961</td> <td>107-0966</td> <td>5431-14</td>	100-10148	100-09198		MRAC, TMRAC, XAC, TXAC	.081	.105	.062	Crimp Contact	2	13	107-0945		107-0918	5431-22	107-0970	107-0981	5431-17	107-0961	107-0966	5431-14
18-20-22 MMAC, TAMOR Cost Colling Colling 1 CO-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	100-1016P	100-0911P	1	MRAC, TMRAC, XAC, TXAC		.092	.062	Crimp Contact	-	13	_	107-0903-2A	107-0918	5431-14	107-0970	107-0977	5431-11	107-0961	107-0966	5431-14
18-20-22 MMAC, TMARAC. 0.08 Coffring 1 1 107-08-18 107-08-18 561-14 1 0.09-09 107-08-18 561-14 1 0.09-09 107-08-18 561-14 1 0.09-09 1 0.09-09 1 0.09-09 0.09-	100-10168	100-09218		MRAC, TMRAC, XAC, TXAC		760.	.062	Crimp Contact	2	13			107-0918	5431-14	107-0970	107-0977	5431-11	107-0961	107-0966	5431-14
18.20.22 MAMER, IMPARAL Cost Command 2 13 10.7-09.05 10.7-09.05 5.51.14	100-1018P	100-0913P		MRAC, TMRAC, XAC, TXAC		820.	.062	Crimp Contact	-	13			107-0918	5431-14	107-0970	107-0977	5431-11	107-0961	107-0966	5431-14
20-22-24 XMC, TMARC, TMARC, ANG S. Colf Decimination 1	100-10188	100-09238		MRAC, TMRAC, XAC, TXAC		820.	.062	Crimp Contact	2	13	107-0945		107-0918	5431-14	107-0970	107-0977	5431-11	107-0961	107-0966	5431-14
20.22.24 MRAC, TMRAC Connect Connect Connect 13 10.7-0945 10.7-0946 641-15 10.7-0970 10.7-0946 641-15 10.7-0946 641-15 10.7-0946 641-15 10.7-0949 641-15 10.7-0946 10.7-0946 10.7-0949 641-15 10.7-0949 641-15 10.7-0949 10.7-0949 641-15 10.7-0949 641-15 10.7-0949 641-15 10.7-0949 641-15 10.7-0949 641-15 10.7-0949 641-15 10.7-0949 641-15 10.7-0949 641-15 10.7-0949 641-15 10.7-0949 641-15 10.7-0949 641-15 10.7-0949 10.7-0949 641-15 10.7-0949 641-15 10.7-0949 641-15 10.7-0949 641-15 10.7-0949 641-15 10.7-0949 641-15 10.7-0949 641-15 10.7-0949 641-15 10.7-0949 641-15 10.7-0949 641-15 10.7-0949 641-15 10.7-0949 641-15 10.7-0949 641-15 10.7-0949 641-15 10.7-0949 641-15 10.7-0949 641-15	100-1020P	100-0915P		MRAC, TMRAC, XAC, TXAC		290.	.062	Crimp Contact	-	13			107-0918	5431-15	107-0970	107-0976	5431-12	107-0961	107-0965	5431-15
22-24-26 MRAG, TMRAG. 23-25-24 MRAG, TMRAG. 23-25-24-26 MRAG, TMRAG. 23-25-24-25-24-26 MRAG, TMRAG. 24-26-28 MRAG, TMRAG. 24-26-28 MRAG, TMRAG. 24-26-28 MRAG, TMRAG. 24-26-28 MRAG, TMRAG. 24-26-28-30 MRAG, TMRAG. 24-26-30 MRAG, TMRAG.	100-1020S	100-09258		MRAC, TMRAC, XAC, TXAC		.065	.062	Crimp Contact	2	13			107-0918	5431-15	107-0970	107-0976	5431-12	107-0961	107-0965	5431-15
22-24-26 MRAC, TMRAC, MARAC, M	100-1022P	100-0907P		MRAC, TMRAC, XAC, TXAC		.055	.062	Crimp Contact	-	13		107-0903-2A	107-0918	5431-15	107-0970	107-0976	5431-12	107-0961	107-0965	5431-15
24-26-28 MRAG, TARRAC .025 .065 .065 .067mp .1 .1 .1 .1 .0 <	100-10228	100-09088		MRAC, TMRAC, XAC, TXAC	.033	.055	.062	Crimp Contact	2	13			107-0918	5431-15	107-0970	107-0976	5431-12	107-0961	107-0965	5431-15
24-26-28 MRAC, TMRAC, ALC, TXAC .065 .067 Compt Contact 2 107-0945 107-0918 543-1-5 107-0970 107-0970 107-0970 107-0970 107-0970 107-0961 107-0966	100-1024P	100-0917P		MRAC, TMRAC, XAC, TXAC	.027	.055	.062	Crimp Contact	-	13			107-0918	5431-15	107-0970	107-0976	5431-12	107-0961	107-0965	5431-15
28-28-30 MRAG, TMRAG. .024 .050 Compact 1 107-0945 107-0945 107-0915 431-15 107-0976 431-15 107-0976 431-15 107-0976 431-15 107-0976 431-15 107-0976 431-15 107-0976 431-15 107-0976 431-15 107-0976 431-15 107-0976 431-11 107-0976 431-11 107-0976 431-11 107-0976 431-11 107-0976 431-11 107-0976 431-11 107-0976 431-11 107-0976 431-11 107-0976 431-11 107-0976 431-11 107-0976 431-11 107-0976 431-11 107-0976 407-0976 407-0976 431-11 407-0976 <th< td=""><td>100-10248</td><td>100-09278</td><td></td><td>MRAC, TMRAC, XAC, TXAC</td><td></td><td>.055</td><td>.062</td><td>Crimp Contact</td><td>2</td><td>13</td><td></td><td></td><td>107-0918</td><td>5431-15</td><td>107-0970</td><td>107-0976</td><td>5431-12</td><td>107-0961</td><td>107-0965</td><td>5431-15</td></th<>	100-10248	100-09278		MRAC, TMRAC, XAC, TXAC		.055	.062	Crimp Contact	2	13			107-0918	5431-15	107-0970	107-0976	5431-12	107-0961	107-0965	5431-15
26-28-30 MRAC, TMRAC .054 .056 Coinact 2 .13 107-0945 107-0945 107-0916 5431-15 107-0970 107-0970 107-0970 107-0916 5431-14 107-0970 107-0970 107-0916 107-0970	100-1026P	100-0963P		MRAC, TMRAC, XAC, TXAC		.050	.062	Crimp Contact	-	13	107-0945		107-0918	5431-15	107-0970	107-0976	5431-12	107-0961	107-0965	5431-15
16-18-20 MRAC, TMRAC, MAC, TMACA, MAC, TMRAC, MAC, MAC, MAC, MAC, MAC, MAC, MAC, M	100-10268	100-09658		MRAC, TMRAC, XAC, TXAC		.050	.062	Crimp Contact	2	13		107-0903-2A	107-0918	5431-15	107-0970	107-0976	5431-12	107-0961	107-0965	5431-15
16-18-20 MRAC, TMRAC, SAC, TYAR .067 .096 .040 Crimp on Langer 4 7.5 107-0945 107-0916 5431-14 107-097 5431-11 107-0966 107-0966 18-20-22 XAC, TYAC .052 .078 .040 Crimp on Contact 3 7.5 107-0945 107-0918 5431-14 107-0970 107-0970 5431-11 107-0966 107-0966 20-22-24 XAC, TYAC .052 .078 .040 Crimp on Contact 3 7.5 107-0945 107-0918 5431-15 107-0970 107-0976 5431-11 107-0966 107-0966 20-22-24 XAC, TYAC .045 .040 Crimp on Contact 4 7.5 107-0945 107-0918 5431-15 107-0976 5431-12 107-0966 107-0966 22-24-26 XAC, TYAC .040 Crimp on Contact 4 7.5 107-0945 107-0918 5431-15 107-0976 5431-15 107-0976 5431-15 107-0976 5431-15 107-0976 5431-15 </td <td>100-2016P</td> <td>100-0949P</td> <td></td> <td>MRAC, TMRAC, XAC, TXAC</td> <td></td> <td>960.</td> <td>.040</td> <td>Crimp Contact</td> <td>8</td> <td>7.5</td> <td></td> <td></td> <td>107-0918</td> <td>5431-14</td> <td>107-0970</td> <td>107-0977</td> <td>5431-11</td> <td>107-0961</td> <td>107-0966</td> <td>5431-14</td>	100-2016P	100-0949P		MRAC, TMRAC, XAC, TXAC		960.	.040	Crimp Contact	8	7.5			107-0918	5431-14	107-0970	107-0977	5431-11	107-0961	107-0966	5431-14
18-20-22 MRAC, TMRAC, TMRAC, SAC, TXAC .052 .078 .040 Crimp Contact 3 7.5 107-0945 107-0916 5431-14 107-0970 107-0970 107-0970 107-0970 107-0966 107-0966 18-20-22 XAC, TXAC .052 .078 .040 Crimp Contact 4 7.5 107-0945 107-0918 5431-15 107-0970	100-2016S	100-0939S		MRAC, TMRAC, XAC, TXAC		960.	.040	Crimp Contact	4	7.5			107-0918	5431-14	107-0970	107-0977	5431-11	107-0961	107-0966	5431-14
18-20-22 MRAC, TMRAC, NAG. .052 .078 .040 Crimp on Langer 4 7.5 107-0945 107-0918 5431-15 107-0970 107-0976 5431-12 107-0966 107-0966 20-22-24 XAC, TXAC .045 .046 Crimp on Contact 3 7.5 107-0945 107-0918 5431-15 107-0976 5431-12 107-0966 107-0966 20-22-24 XAC, TXAC .045 .040 Crimp on Contact 4 7.5 107-0945 107-0918 5431-15 107-0976 5431-12 107-0961 107-0965 22-24-26 XAC, TXAC .033 .055 .040 Crimp on Contact 4 7.5 107-0945 107-0918 5431-15 107-0976 5431-12 107-0961 107-0966 22-24-26 XAC, TXAC .033 .055 .040 Crimp on Contact 4 7.5 107-0945 107-0918 5431-15 107-0976 5431-12 107-0961 107-0966 24-26-28 XAC, TXAC .055 <td< td=""><td>100-2018P</td><td>100-0943P</td><td></td><td>MRAC, TMRAC, XAC, TXAC</td><td></td><td>820.</td><td>.040</td><td>Crimp Contact</td><td>8</td><td>7.5</td><td></td><td></td><td>107-0918</td><td>5431-14</td><td>107-0970</td><td>107-0977</td><td>5431-11</td><td>107-0961</td><td>107-0966</td><td>5431-14</td></td<>	100-2018P	100-0943P		MRAC, TMRAC, XAC, TXAC		820.	.040	Crimp Contact	8	7.5			107-0918	5431-14	107-0970	107-0977	5431-11	107-0961	107-0966	5431-14
20-22-24 MRAC, TMRAC, SACC, TXAC 2.045 S.040 Contact 3 7.5 107-0945 107-0903-2A 107-0918 5431-15 107-0970 107-0976 5431-12 107-0965 107-0965 22-24-26 MRAC, TMRAC, TMAC, TMRAC, TMAC, TMAC, TMRAC, TMR	100-20188	100-09338		MRAC, TMRAC, XAC, TXAC	.052	820.	.040	Crimp Contact	4	7.5			107-0918	5431-14	107-0970	107-0977	5431-11	107-0961	107-0966	5431-14
20-22-24 MRAC, TMRAC, CARC, TXAC TMRAC, CARC, TXAC TMRAC, CARC, TXAC TARRAC, CARC, TXAC TARRAC, CARC, TXAC CAR	100-2020P	100-0945P		MRAC, TMRAC, XAC, TXAC		.065	.040	Crimp Contact	8				107-0918	5431-15	107-0970	107-0976	5431-12	107-0961	107-0965	5431-15
22-24-26 MRAC, TMRAC, SAC, TXAC MRAC, TMRAC, SAC, TXAC S	100-20208	100-09358		MRAC, TMRAC, XAC, TXAC		.065	.040	Crimp Contact	4	7.5		107-0903-2A	107-0918	5431-15	107-0970	107-0976	5431-12	107-0961	107-0965	5431-15
MRAC, TMRAC, TMRAC, TMRAC, TAG. .033 .055 .040 Crimp Contact 4 7.5 107-0945 107-0918 5431-15 107-0970 107-0976 5431-12 107-0961 107-0965 107-0965 MARAC, TXAC .027 .055 .040 Crimp Contact 4 7.5 107-0945 107-0918 5431-15 107-0976 5431-12 107-0961 107-0965 MRAC, TXAC .027 .055 .040 Crimp Contact 4 7.5 107-0945 107-0918 5431-15 107-0976 5431-12 107-0961 107-0965	100-2022P	100-0947P	22-24-26	MRAC, TMRAC, XAC, TXAC		.055	.040	Crimp Contact	က	7.5	107-0945		107-0918	5431-15	107-0970	107-0976	5431-12	107-0961	107-0965	5431-15
MRAC, TMRAC, TMRAC, O. 27 .055 .040 Crimp 3 7.5 107-0945 107-0903-2A 107-0918 5431-15 107-0970 107-0970 107-0970 107-0965 107-096	100-20228	100-0937S		MRAC, TMRAC, XAC, TXAC	.033	.055	.040	Crimp Contact	4	7.5		107-0903-2A	107-0918	5431-15	107-0970	107-0976	5431-12	107-0961	107-0965	5431-15
MRAC, TMRAC, G. 227 .055 .040 Contact 4 7.5 107-0945 107-0903-2A 107-0918 5431-15 107-0970 107-0976 5431-12 107-0965 107-0965	100-2024P	100-0951P		MRAC, TMRAC, XAC, TXAC		.055	.040	Crimp Contact	3	7.5			107-0918	5431-15	107-0970	107-0976	5431-12	107-0961	107-0965	5431-15
	100-2024S	100-0941S	24-26-28	MRAC, TMRAC, XAC, TXAC	.027	.055	.040	Crimp Contact	4	7.5	107-0945	107-0903-2A	107-0918	5431-15	107-0970	107-0976	5431-12	107-0961	107-0965	5431-15

100 SERIES CONTACTS

Rack & Panel

100 Series

Removable Contacts

100 SERIES CONTACTS

100 S	ERIES	100 SERIES CONTACTS	Z																
	Reeled	2000		Diameter	neter						For Loose Contacts	Contacts		For	For Loose Contacts	acts	For	For Reeled Contacts	acts
Contact Part Number	Part Number 2,000/Reel	modates Conductor Sizes	Used In Connector Series	(See Dr	awings) 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	Positioner Part Number	Hand Tool Positioner Gage Plug Part Part Part Number 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				
100-25148	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	D.	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	D.	55					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	Contact				
100-25208	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	2	13					N/A Solder Contact	Contact				
100-25228	Not Available	22-24-26	MRAC, TMRAC XAC, TXAC	.033	.055	.062	Solder Contact	9	13					N/A Solder Contact	Contact				
100-2524P	Not Available	24-26-28	MRAC, TMRAC XAC, TXAC	.027	.055	.062	Solder Contact	2	13					N/A Solder Contact	Contact				
100-25248	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	290.	960:	.040	Solder Contact	7	7.5					N/A Solder Contact	Contact				
100-2616S	Not Available	16-18-20	MRAC, TMRAC XAC, TXAC	.067	960.	.040	Solder Contact	8	7.5					N/A Solder Contact	Contact				
100-2620P	Not Available	20-22-24	MRAC, TMRAC XAC, TXAC	.045	.065	.040	Solder Contact	7	7.5					N/A Solder Contact	Contact				
100-26208	Not Available	20-22-24	MRAC, TMRAC XAC, TXAC	.045	.065	.040	Solder Contact	8	7.5					N/A Solder Contact	Contact				
100-4020P	100-4020P 100-0801P	20-52	SREC, 42 Series	See D	rawing	.030	Crimp Contact	23	2	107-43302	107-43300		5431-25				107-0961	107-0965	5431-15
100-40208	100-4020S 100-0802S	20-52	SREC, 42 Series	See D	rawing	.030	Crimp Contact	24	2	107-43302	107-43300		5431-25				107-0961	107-0965	5431-15
100-4024P	100-0805F	100-4024P 100-0805P 24-26-28	SREC, 42 Series	See D	rawing	.030	Crimp Contact	25	2	107-43302	107-43300		5431-25				107-0961	107-0965	5431-15
100-40248	100-08068	100-4024S 100-0806S 24-26-28	SREC, 42 Series	See D	rawing	.030	Crimp Contact	26	2	107-43302	107-43300		5431-25				107-0961	107-0965	5431-15
100-4028P	100-4028P 100-0809P	28-30	SREC, 42 Series		See Drawing	.030	Crimp Contact	27	2	107-43302	107-43300		5431-25				107-0961	107-0965	5431-15
100-40288	100-4028S 100-0810S	28-30	SREC, 42 Series	See D	rawing	080.	Crimp Contact	28	2	107-43302	107-43300		5431-25				107-0961	107-0965	5431-15
100-51014S 100-0981S	100-0981S	14-16	MRAC, TMRAC, XAC, TXAC	.081	.105	.062	3 Piece Crimp	19	13	107-0945	107-0903-2A	107-0918	5431-14				107-0961	107-0966	5431-14
100-51016S 100-0982S	100-0982S	16-18-20	MRAC, TMRAC, XAC, TXAC	.067	.094	.062	3 Piece Crimp	19	13	107-0945	107-0903-2A	107-0918	5431-14				107-0961	107-0966	5431-14
100-51018S 100-0983S	100-09838	18-20-22		.052	820.	.062	3 Piece Crimp	19	13	107-0945	107-0903-2A	107-0918	5431-14				107-0961	107-0966	5431-14
100-510205 100-09845 20-22-24	100-0984S	3 20-22-24	MRAC, TMRAC, XAC, TXAC	.045	790.	.062	3 Piece Crimp	19	13	107-0945	107-0945 107-0903-2A	107-0918	5431-15				107-0961	107-0965	5431-15
																(]		

Winchester

Continued on page RP / 86

Removable Contacts

100 SERIES CONTACTS

Continued on page RP / 87

Loose	Reeled	Accom-		Diam	ameter					•	For Loose Contacts	!			For Loose Contacts	ntacts	For	For Reeled Contacts	ıcts
Contact Part Number	2	modates Conductor Sizes	Used In Connector Series	A A	Drawings)	Mating Pin Diameter	Description See of Figure Contacts Number	See Figure lumber	AMPS per Cont	Locator	Hand Tool	Pneumatic Tool	Gage Plug Part Number		Positione Part Number	Hand Tool Positioner Gage Plug Part Part Part Number Number Number	Pneumatic Tool Part Number	Depth Block Part Number	Gage Plug Part Number
100-510228	100-51022S 100-0985S	22-24-26	MRAC, TMRAC, XAC, TXAC	.033	.055	.062	3 Piece Crimp	19	13	107-0945	107-0945 107-0903-2A 107-0918	107-0918	5431-15				107-0961	107-0965	5431-15
100-510248	100-51024S 100-0986S	24-26-28	MRAC, TMRAC, XAC, TXAC	.027	.055	.062	3 Piece Crimp	19	13	107-0945	107-0903-2A	107-0918	5431-15				107-0961	107-0965	5431-15
100-510268	100-51026S 100-0987S	26-28-30	MRAC, TMRAC, XAC, TXAC	.024	.050	.062	3 Piece Crimp	19	13	107-0945 1	107-0903-2A	107-0918	5431-15				107-0961	107-0965	5431-15
100-54020S	100-540208 100-08048 20-22	20-52	SREC, 42 Series	See	Drawing	.030	3 Piece Crimp	20	5 1	107-43302	107-43300		5431-25						
100-54024S	100-540248 100-08238	24-26	SREC, 42 Series	See	Drawing	.030	3 Piece Crimp	21	5	107-43302	107-43300		5431-25						
100-54028S	Not Available	28-30	SREC, 42 Series	See	Drawing	.030	3 Piece Crimp	22	5 1	107-43302	107-43300		5431-25						
											Inner Contact			Outer Contact					
100-8000P	Not Available	RG178, 196/U	MRAC, TMRAC, XAC, TXAC	See Dra	Drawing	820.	Shielded Crimp	31	- 1	107-43303	107-43300		5431-26	107-0903-28 107-0944	107-094	4			
100-8000S	Not Available	RG178, 196/U	MRAC, TMRAC, XAC, TXAC	See	Drawing	820.	Shielded Crimp	32	I	107-43303	107-43300		5431-26	107-0903-2A	107-0944	4			
100-8001P	Not Available	RG161,179 187/U	MRAC, TMRAC, XAC, TXAC	See Dra	Drawing	820.	Shielded Crimp	31		107-43303	107-43300		5431-26	107-43330	Not Required				
100-8001S	Not Available		RG161,179 MRAC, TMRAC, 187/U XAC, TXAC	See Dra	Drawing	820.	Shielded Crimp	32	1	107-43303	107-43300		5431-26	107-43330	Not Required				
100-8003P	Not Available	RG174,188 316/U	MRAC, TMRAC, XAC, TXAC	See	Drawing	820.	Shielded Crimp	31	1	107-43303	107-43300		5431-26	107-43330	Not Required				
100-8003S	Not Available	RG174,188 316/U	RG174,188 MRAC, TMRAC, 316/U XAC, TXAC	See Dra	Drawing	.078	Shielded Crimp	32	I	107-43303	107-43300		5431-26	107-43330	Not Required				
7130	Not Available	Dip Solder	MRAC, TMRAC	Not Applicable	licable	.062	Dip Solder	6	13					N/A Dip Solder	Solder				
7131	Not Available	Dip Solder	MRAC, TMRAC	Not App	Applicable	.062	Dip Solder	10	13					N/A Dip Solder	Solder				
8122	Not Available	Wire Wrap	SREC	Not Applicable	licable	.030	Wire Wrap	13	2					N/A Wire Wrap	e Wrap				
8123	Not Available	Wire Wrap	SREC	Not Applicable	licable	.030	Wire Wrap	14	2					N/A Wire Wrap	e Wrap				
8124	Not Available	Dip Solder	MRAC, TMRAC	Not Applicable	licable	.062	Dip Solder	Ξ	2					N/A Dip Solder	Solder				
8125	Not Available	Dip Solder	MRAC, TMRAC	Not App	Applicable	.062	Dip Solder	12	13					N/A Dip Solder	Solder				
8113	Not Available	Wire Wrap	MRAC, TMRAC	Not Applicable	licable	.062	Wire Wrap	16	13					N/A Wire Wrap	e Wrap				
8114	Not Available	Wire Wrap	MRAC, TMRAC	Not Applicable	licable	.062	Wire Wrap	15	13					N/A Wire Wrap	e Wrap				
8105	Not Available	Wire Wrap	MRAC, TMRAC	Not Applicable	licable	.062	Wire Wrap	18	13					N/A Wire Wrap	e Wrap				
8106	Not Available	Wire Wrap	MRAC, TMRAC	Not Applicable	licable	.062	Wire Wrap	17	13					N/A Wire Wrap	e Wrap				
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Winchester.

100 SERIES CONTACTS

Rack & Panel

100 Series

Removable Contacts

MIL-C-39029 CONTACTS

M30020	Winchester	Accom- modates	Ilsed In	Diameter	neter	Mating	Decrintion	99.5	AMP	San S II M	Winchester			Insertion	Incertion	Removal	Removal
Part Number	Part Number	Conductor Sizes	Connector Series	А	8	Pin Dia.	Pin of Dia. Contacts	Figure Number	Cont	Crimp	Crimp Tool	MIL Spec Positioner	Winchester Positioner	Tool	Tool Winchester	Tool	Tool Winchester
M39029/34-271	100R-2020P95	20-22-24	M28748	.045	290.	.040	Crimp Contact	က	7.5	M22520/1-01	107-0903-2A	M22520/1-01 107-0903-24 M22520/1-03 107-0945 M81969/18-01 107-1015 M81969/20-01 107R100	107-0945	M81969/18-01	107-1015	M81969/20-01	107R1001
M39029/34-272	100R-1020P95	20-22-24	M28748	.045	790.	.062	Crimp Contact	-	13	M22520/1-01	107-0903-2A	M22520/1-01 107-0903-2A M22520/1-03 107-0945		M81969/18-01 107-1015	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	M22520/1-01 107-0903-2A M22520/1-03 107-0945	107-0945	M81969/18-01 107-1015 M81969/20-01	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		M81969/20-02	RT2855
M39029/35-274	100R-2020S95	20-22-24	M28748	.045	290.	.040	Crimp Contact	4	7.5	M22520/1-01	107-0903-2A	M22520/1-01 107-0903-2A M22520/1-03 107-0945 M81969/18-01 107-1015 M81969/20-01 107R100	107-0945	M81969/18-01	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	M22520/1-01 107-0903-2A M22520/1-03 107-0945 M81969/18-01 107-1015 M81969/20-01 107R100	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	M22520/1-01 107-0903-2A W22520/1-03	107-0945	M81969/18-01	107-1015	M81969/20-01	107R1001
M39029/35-441	100-202862-50	22-24-26	M28748	.035	.056	.030	Crimp	30	2	M22520/2-01 107-43300		Buchn.614412		M81969/18-02 IT2857		M81969/20-02	RT2855

Removable Contacts

OUTLINE

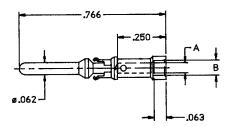


Figure 1

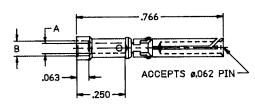


Figure 2

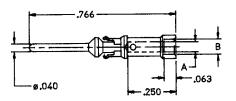


Figure 3

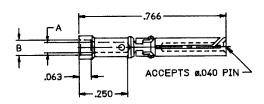


Figure 4

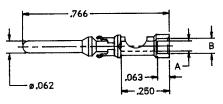


Figure 5

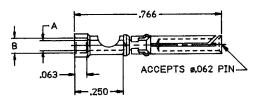
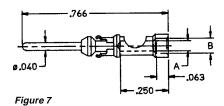
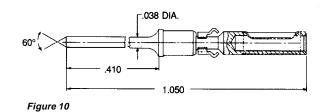


Figure 6



.063 ACCEPTS @.040 PIN Figure 8

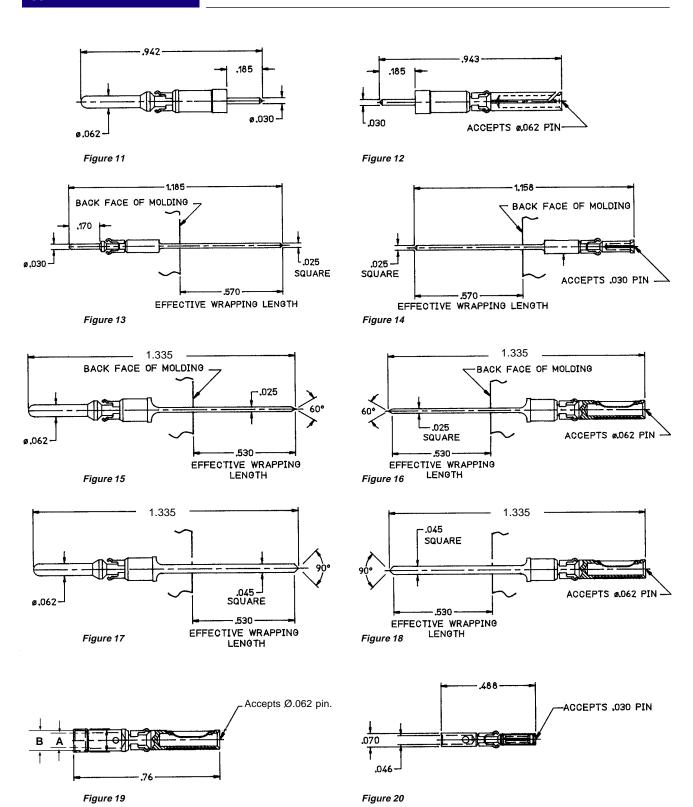
1,355 0.038 60° Figure 9



Winchester

Removable Contacts

OUTLINE



Removable Contacts

OUTLINE

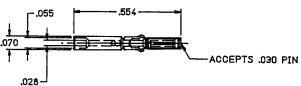


Figure 21



Figure 22

└_{.020} .043

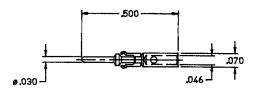
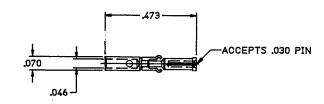


Figure 23



.554

ACCEPT .030 PIN

Figure 24

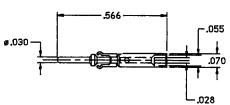


Figure 25

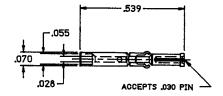


Figure 26

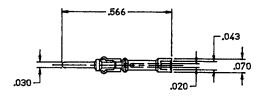


Figure 27

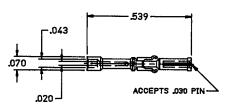
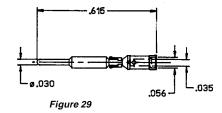


Figure 28



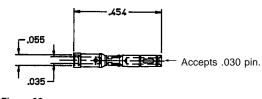


Figure 30

Removable Contacts

OUTLINE

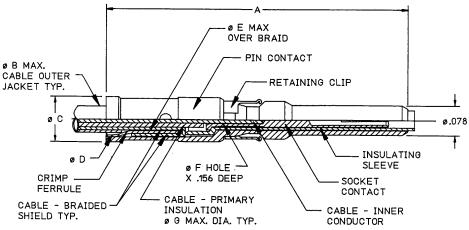
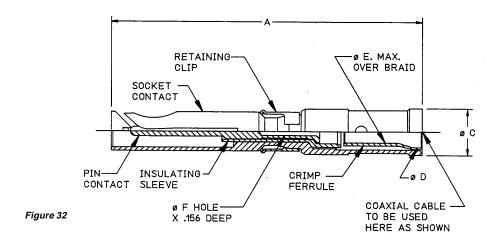


Figure 31



ORDERING INFORMATION

Catalog					Dir	nensio	ns		
Number	Style	Cable Sizes	Α	В	C	D	Е	F	G
100-8000P	Pin	RG178/U	.797	.080	.120	.082	.057	.020	.036
100-8000S	Socket	RG196/U	., 51	.000	.120	.002	.007	.020	.000
100-8001P	Pin	RG161/U	4 004	440	407		000	000	000
100-8001S	Socket	RG179/U RG187/U	1.031	.110	.137	.111	.082	.020	.063
100-8003P	Pin	RG174/U	4 004	440	407		000	000	000
100-8003S	Socket	RG188/U RG316/U	1.031	.110	.137	.111	.082	.023	.063

Crimping Tools And Accessories

PNEUMATIC AND HAND CRIMPING TOOLS

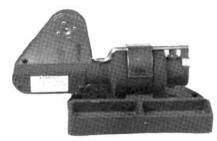


Automatic Feed Crimping Tool 600/1200 Crimps Per Hour

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.

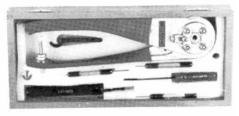


Hand Operated Crimping Tool 200/500 Crimps Per Hour

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.

Crimping Tools And Accessories

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

Positioners

Catalog	Used	With
Number	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	

Removable Contact Insertion Tools

Catalog Number 107-1011 for SREC

Catalog Number 107-1015 for MRAC / STD & Shielded

Contact Pin Straightener

Catalog Number 107-1024

used on .040 or .062 dia.

Removable Contact Removal Tools

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

Catalog Number **107-1012** for SREC

Catalog Number 107R1001 for MRAC / STD



Gage Plug

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

- 1. Tool
- 2. Contact Size
- 3. Wire Size

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