Rack & Panel

Rectangular = Miniature = Subminiature = Environmental = Removable Contacts

Table Of Contents

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

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

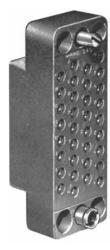
While the information in this publication is believed to be accurate and reliable, all data presented is subject to change without notice. Winchester Interconnect disclaims responsibility for any damages resulting from application or any incompleteness or inaccuracies in the information presented. Consult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

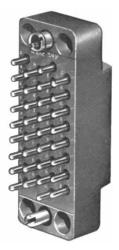


MRAC Series

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

Miniature Rectangular, Removable Contacts







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

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

Specifications

Current Rating: Up to 13 amps

No. of

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

50, 66, 75, 104

Contacts: Must be ordered separately.

Select from crimp, solder, dip solder, shielded or Wire-Wrap termination contacts. 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

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.

Hoods: Anodized aluminum. May be

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

Military Cross Reference

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

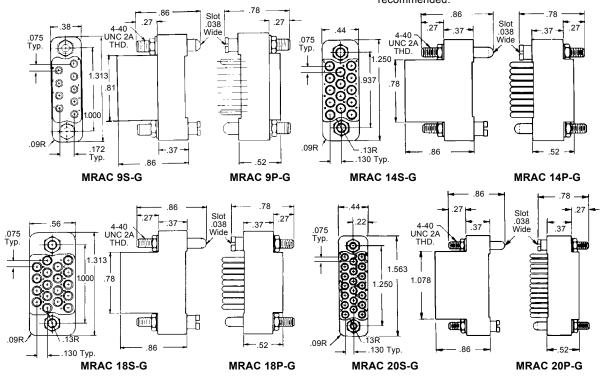


Outline

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

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

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



Physical Data

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

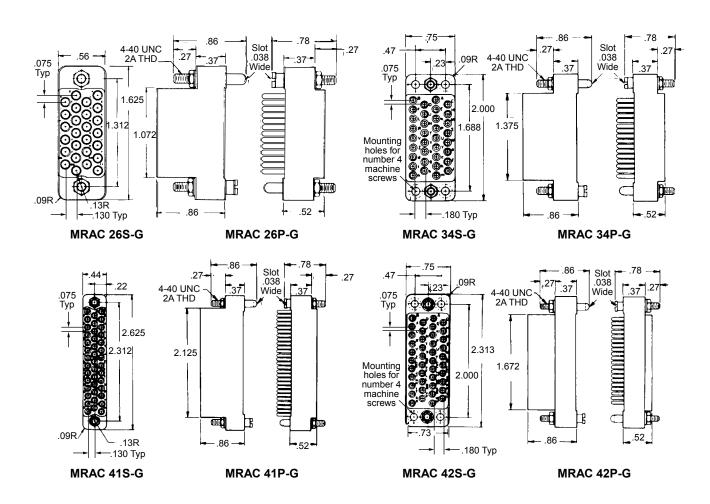
How To Order: To obtain "K" or "N" guides in place of the standard "G" type, substitute the desired socket style code letter ("K" or "N") for "G" in both the Plug and Receptacle Code Numbers.

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

^{*}For passivated stainless steel add SS suffix

Outline

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



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

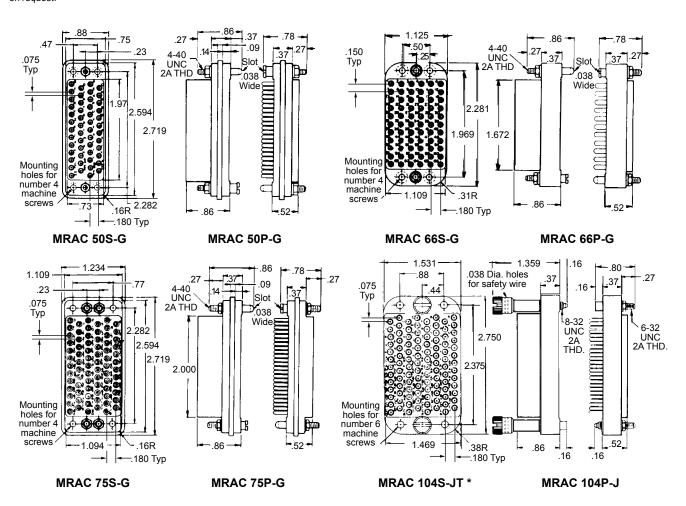
Mounting Note: Connectors MRAC 26, MRAC 20 and smaller, use guides for mounting in a hood or on a panel. Connectors MRAC 34, MRAC 42, MRAC 50, MRAC 66, and MRAC 75 use four #4 machine screws, in addition to guides, for mounting in a hood or on a panel. Guides are not recommended for use with MRAC 104.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

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



Outline

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



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

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

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

Jackscrews & Jacksockets

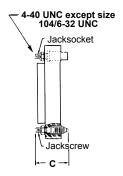
Miniature Rectangular, Removable Contacts

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

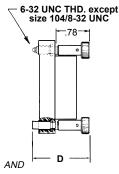
are the two fixed screws required to complete the locking action. When mated, the jackscrews may be locked with a safety wire through the hole in the self-locking pin (in the jackscrew shaft).

Outline

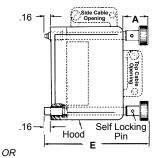
Dimensions are for reference only and are subject to change. Outline drawings on request.



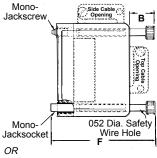
Connector with fixed Jackscrews Code designation: J



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



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



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

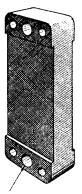
Dimensions

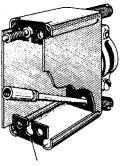
Connector Size	Dimension A				Di	men	sion	В			Dimension E					Dimension F				
Size	Н	H1	Н8	Н9	H13	Н	H1	H8	Н9	С	D	Н	H1	H8	H9	H13	Н	H1	H8	H9
MRAC 9	_	.59	_	_	.59	_	_	_	_	.80	1.31	_	2.41	_	_	2.41		_	_	- 1
MRAC 14	_	.59	_	-	.59	_	_	_	_	.80	1.31	_	2.41	_	_	2.41	-	-	_	- 1
MRAC 18	_	.59	ı	-	.59	_	_	_	-	.80	1.31	_	2.41	_	_	2.41	-	-	_	_
MRAC 20	_	.59	ı	_	.59	_	ı	_	-	.80	1.31	_	2.41	_	_	2.41	_	ı	_	_
MRAC 26	.80	.59	.59	.59	-	-	_	_	_	.80	1.31	2.61	2.41	2.41	2.41	_	_	_	_	_
MRAC 34	.63	.63	.63	.63	-	.63	.63	.63	.63	.80	1.31	2.41	2.41	2.41	_	-	_	2.41	2.41	2.41
MRAC 41	.63	.63	_	_	-	_	_	_	_	.80	1.31	2.41	2.41	_	_	_	_	_	_	_
MRAC 42	.58	.58	.58	.58	-	.58	.58	.58	.58	.80	1.31	2.41	2.41	2.41	_	_	2.41	2.41	2.41	2.41
MRAC 50	.58	.58	.58	.58	_	.58	.58	.58	.58	.80	1.31	2.41	2.41	2.41	_	_	2.41	2.41	2.41	2.41
MRAC 66	.69	_	_	.69	_	.5	_	_	.5	.80	1.31	2.41	_	_	2.41	_	2.41	_	_	2.41
MRAC 75	.56	.56	.56	.56	_	.56	.56	.56	.56	.80	1.31	2.41	2.41	2.41	_	_	2.41	2.41	2.41	2.41
MRAC 104	.5	-	-	.67	_	.5	_	_	.5	.80	1.52	3.42	_	_	3.42	_	3.25	-	_	3.25

New Monojacks Assemble and Disassemble With Remarkable Ease and Speed

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

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





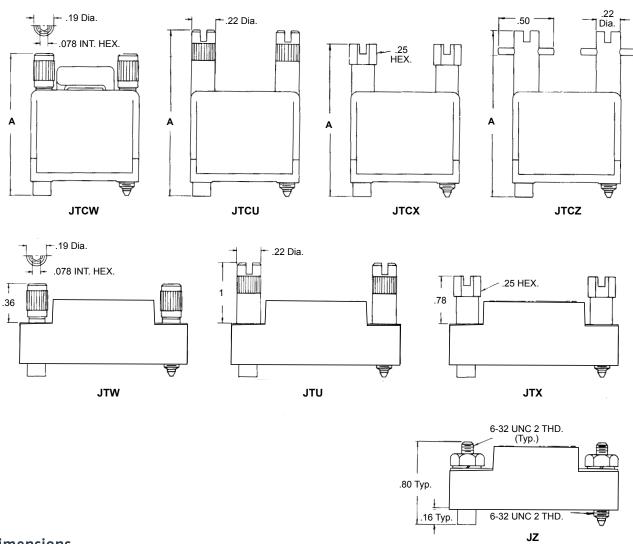
MONOJACKS ARE CAPTIVATED IN KEYHOLE SLOT OF HOOD AS SHOWN ABOVE. WHEN USING SHELLS, MONOJACKS ARE CAPTIVATED IN KEYHOLE OF SHELL AND CLEARANCE HOLES ARE PLACED IN HOODS.

MOLDINGS HAVE STRAIGHT THRU HOLES



Outline Jackscrews and Jacksockets

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



Dimensions

Hood Type

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

Size		Туре	JTC	w		Size			Size		Тур	e JTC	CX		Size		Тур	e JT	CZ				
0.20	Н	H1	H8	Н9	H13		Н	H1	H8	H9	H13	00	Н	H1	H8	Н9	H13	OIZC	Н	H1	Н8	H9	H13
	Dimension A Dimension A							Dimension A							Dime	nsior	ıΑ						
9	-	2.22	-	_	2.22	9	_	2.47	_	_	2.47	9	_	2.34	_	-	2.34	9	-	2.47	_	-	2.47
14	_	2.22	_	-	2.22	14	_	2.47	_	-	2.47	14	_	2.34	_	-	2.34	14	_	2.47	_	_	2.47
18	_	2.22	-	_	2.22	18	_	2.47	_	_	2.47	18	_	2.34	_	-	2.34	18	-	2.47	-	ı	2.77
20	_	2.22	_	2.22	2.22	20	_	2.47	_	2.47	2.47	20	_	2.34	_	2.34	2.34	20	_	2.47	_	2.47	2.47
26	2.22	2.22	2.22	2.22	-	26	2.47	2.47	2.47	2.47	_	26	2.61	2.34	2.34	2.34	_	26	2.73	2.47	2.47	2.47	_
34	2.22	2.22	2.22	2.22	-	34	2.47	2.47	2.47	2.47	_	34	2.34	2.34	2.34	2.34	_	34	2.47	2.47	2.47	2.47	_
41	2.22	2.22	_	-	-	41	2.47	2.47	-	_	_	41	2.34	2.34	_	_	-	41	2.47	2.47	_	_	_
42	2.22	2.22	2.22	2.22	-	42	2.47	2.47	2.47	2.47	_	42	2.34	2.34	2.34	2.34	_	42	2.47	2.47	2.47	2.47	_
50	2.22	2.22	2.22	2.22	_	50	2.47	2.47	2.47	2.47	_	50	2.34	2.34	2.34	2.34	_	50	2.47	2.47	2.47	2.47	_
66	2.22	_	_	2.22	_	66	2.47	-	_	2.47	_	66	2.34	-	_	2.34	_	66	2.47	_	_	2.47	_
75	2.22	2.22	2.22	2.22	-	75	2.47	2.47	2.47	2.47	_	75	2.34	2.34	2.34	2.34	_	75	2.47	2.47	2.47	2.47	_

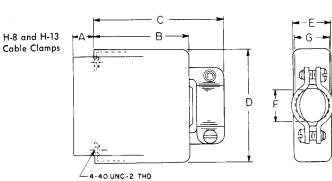
Outline Formed Aluminum Hoods

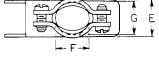
Dimensions are for reference only and are subject to change. Outline drawings on request.

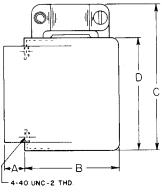
Hoods shown are MRE Hoods for use with MRAC Connectors

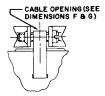


H-8 and H-13 Hoods are identical to H Hood except for cable clamp style and cable opening in the hood.









H-9 Cable Clamp

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

Dimensions

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

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

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

Top Cable Opening

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

Side Cable Opening

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







Vibration Locks

Lock Tabs (MRE-V shown)

Lever & Pivot Assemblies (MRE-VL shown)

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

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

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

Note 1:When panel mounting the lock-tab half of a MRAC 34, MRAC 42 or MRAC 50 connector, flat washers (.033 minimum thickness) should be used on the mounting screws to shim the molding away from the panel. Note 2: Each code number indicates two units, i.e., the "MRE-VL" consists of two levers and two pivots (unassembled*), and the "MRE-V" consists of two tabs.

Note 3: These units are supplied unassembled to facilitate handling. The pivot is easily assembled to the lever merely by inserting the hooked end through the lever opening. It will automatically snap into proper position. Patent #2,760,174.

Dimensions / Outline

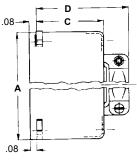
Hoods

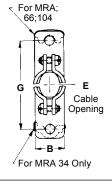
Hoods shown are MRA Hoods for use with MRAC Connectors

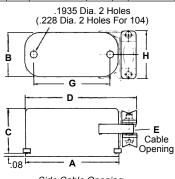
Code No.		DIM	ENS	ONS	- Top Op	eni	ng	Wt.	Fits
	Α	В	С	D E H G		G	Oz.	Connector	
MRA 34H-491	2.08	.83	1.17	1.59	.66 x .75	-	1.688	.6	MRAC 34P MRAC 34S
MRA 66H	2.38	1.22	1.17	1.69	1.03 Dia.	-	1.969	.8	MRAC 66P MRAC 66S
MRA 104H	2.84	1.63	2.23	2.75	1.19 Dia.	_	2.375	1.0	MRAC 104P MRAC 104S

Code No.		DIM	ENSI	ONS	- Side Op	enin		Wt.	
0000 1101	Α	В	С	D	Е	Н	G	UZ.	Connector
MRA 34H9-491	2.08	.83	1.17	2.59	.64 x .75	1.06	1.688	.6	MRAC 34P MRAC 34S
MRA 66H9	2.38	1.22	1.17	2.92	.84 Dia.	1.34	1.969	.8	MRAC 66P MRAC 66S
MRA 104H9	2.84	1.63	2.23	3.39	1.19 Dia.	1.63	2.375	1.0	MRAC 104P MRAC 104S

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



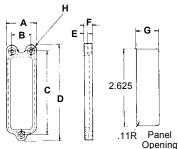




Dimensions / Outline

Top Cable Opening

Side Cable Opening

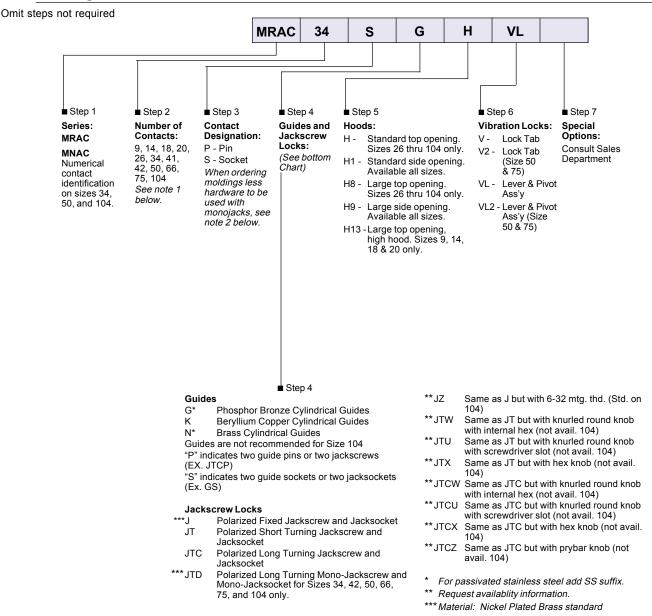


MRAC 50 and MRAC 75 connectors use the standard MRE 50 and MRE 75 mounting brackets.

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

Ordering Information

Miniature Rectangular, Removable Contacts



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

2. When ordering molding less hardware and hood for use with JTD Monojacks, connectors must be ordered as follows:

Pin connector = MRAC 34P8, MRAC 42P8, etc.

Socket connector = MRAC 34S8, MRAC 42S8, etc.

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







XAC34SF2A010

XAC34PM1A000

XAC34PC1A700

Designed for external installation, the XAC is the MRAC removable contact connector equipped with protective shells and mounting plates for chassis or cable mounting on metal containers, bulkheads, or any outside surface equipment. Lighter and smaller than other external connectors, they provide dependable

Specifications

Current Rating: Up to 13 amps

No. of

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

Contacts: Contacts must be ordered

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

terminations.

Electrical Data: Meets high potential

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

2000 VAC.

Military versions are QPL'd to M28748/3 and M28748/4.

service under adverse conditions. Inserts are housed in protective shells and there is screw lock coupling of plug and receptacle.

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

Polarization: Seven positions available for

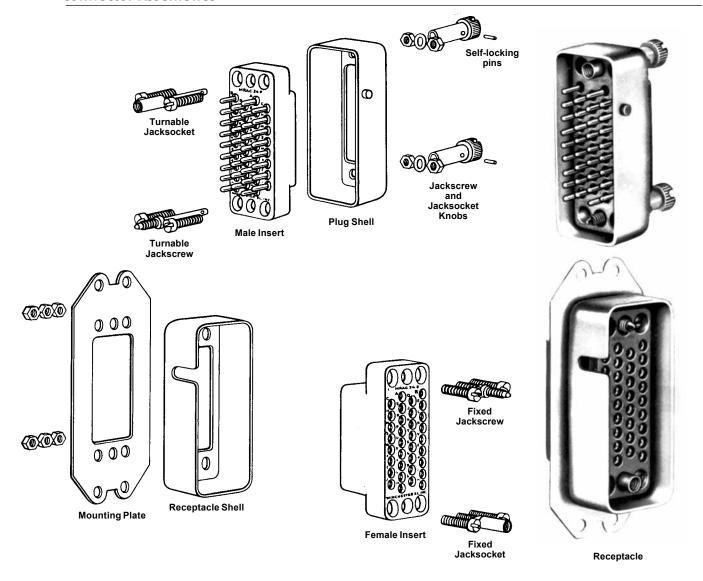
pin and slot polarization on shells. Additional polarization can be provided with various arrangements of jackscrews and guides.

Shells, formed and drawn Accessories:

hoods, mounting plates, jackscrews and jacksockets.

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

Connector Assemblies



Definition of Connector Terms

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

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

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

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

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

Male Insert: The molded insulator body containing pin contacts.

Female Insert: The molded insulator body containing socket contacts.

Pin Contacts: Male Contacts that fit into the socket contacts

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

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

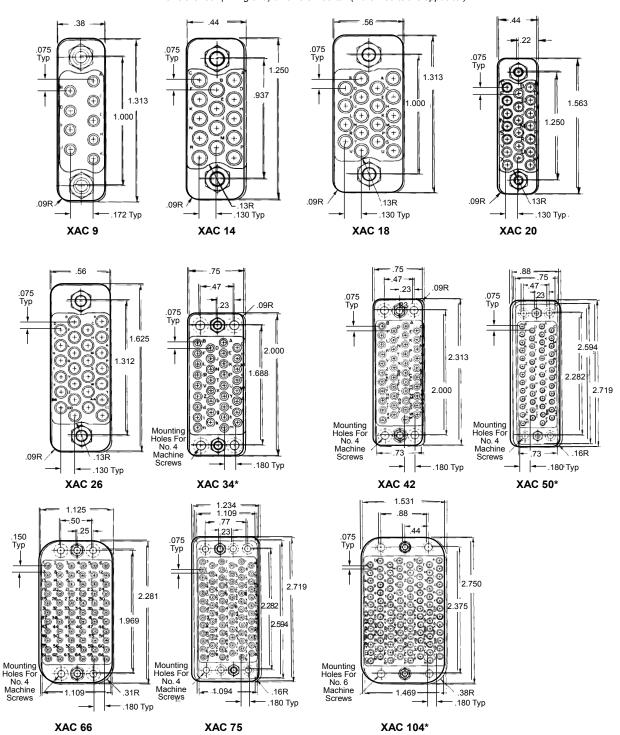
Accessories: Those components such as hoods and mounting plates which are attachable to a plug or receptacle to facilitate mounting and/or handling of the connector, and to prevent inadvertent cross-mating.



Contact Arrangements

External Miniature Rectangular, Removable Contacts

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



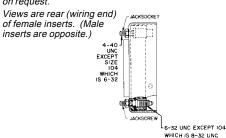
*For numerical contact identification instead of alphabetical, order XNAC**P or S available in sizes 34, 50, and 104.

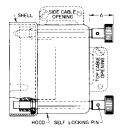
Sizes 66 and 75 have numerical contact identification as standard.

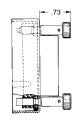
The spacing, arrangement, and identification of contacts of the XAC inserts are the same as those found on the Series MRAC removable contact connectors for the same number of contacts.

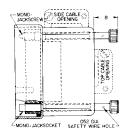
Jackscrew & Jacksockets

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









Fixed Jackscrews (F)

Long Turning Jackscrews (C) Used With Hoods

Short Turning Jackscrews (M) Used Only Without Hoods

Monojacks (D) Used With Hoods

Specifications

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

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

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

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

Applications

Jackscrew locking device assures positive coupling of engaged connectors to prevent accidental disconnecting from vibration or physical shock. It also aids easy connection and separation of connector plug and

receptacle. Mounted connector-half houses one non-turnable fixed jackscrew and jacksocket to insure connector polarization. Mating-half houses one of the three types of turning jackscrew and jacksocket (M, C, or D).

LOCKING DEVICE	SPECIFICATIONS						
	CODE LETTER	WT. OZ. See Notes 1 & 2	MATERIAL AND FINISH				
Jackscrew } 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

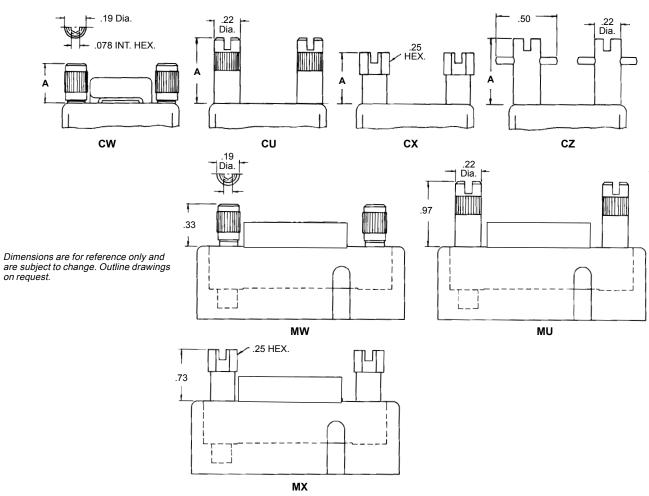
Standard Knobs - Extension Beyond Hood

	Dimension A											Dii	men	sior	ı B		
XAC	9*	14*	18*	20*	26	34	42	50	66	75	104	34	42	50	66	75	104
0300	.55	.55	.55	.55	.77	.58	.53	.53	_	.52	_	.59	.55	.55	-	.53	_
0400	.55	.55	.55	.55	.55	.58	.53	.53	-	.52	_	.59	.55	.55	-	.53	-
0700	_	_	_	_	-	.58	-	-	.64	_	.52	ı	ı	-	.38	-	.38
0800	_	_	_	-	-	.58	_	_	.64	_	.52	-	1	_	.38	-	.38

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



Outline - Jackscrews



Dimensions

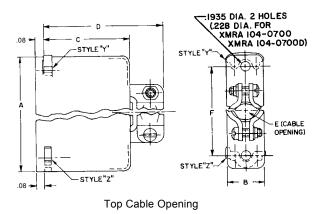
All jackscrews and sockets are stainless steel, passivated (except F & D which are nickel plated brass). All knobs are aluminum, anodized except MW and CW which are stainless steel, passivated.

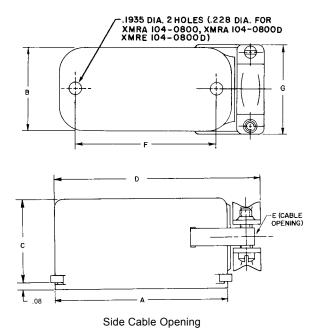
C:			Но	ods			C:			Но	ods		
Size	0300	0400	0300X	0400X	0700	0800	Size	0300	0400	0300X	0400X	0700	0800
				Type C				ı	Dimen	sion A -	- Type C	X	'
9	-	.36	.36	.36	_	_	9	-	.48	.48	.48	_	_
14	-	.36	.36	.36	-	_	14	-	.48	.48	.48	_	_
18	-	.36	.36	.36	-	-	18	-	.48	.48	.48	-	_
20	-	.36	.36	.36	_	_	20	-	.48	.48	.48	_	_
26	.36	.36	.36	.36	-	-	26	.77	.48	.48	.48	_	_
34	.39	.39	.39	.39	.47	.47	34	.52	.52	.52	.52	.61	.61
42	.34	.34	.34	.34	-	-	42	.47	.47	.47	.47	_	_
50	.34	.34	.34	.34	-	-	50	.47	.47	.47	.47	_	_
66	-	_	_	-	.47	.47	66	-	_	_	1	.61	.61
75	.33	.33	.33	.33	-	-	75	.45	.45	.45	.45	_	_
		Dimen	sion A -	- Type C	U				Dimen	sion A -	- Type C	Z	
9	-	.61	.61	.61	_	_	9	-	.61	.61	.61	_	_
14	-	.61	.61	.61	-	-	14	-	.61	.61	.61	-	_
18	-	.61	.61	.61	_	_	18	-	.61	.61	.61	_	_
20	-	.61	.61	.61	_	_	20	-	.61	.61	.61	_	_
26	.61	.61	.61	.61	_	_	26	.92	.61	.61	.61	_	_
34	.64	.64	.64	.64	.72	.72	34	.64	.64	.64	.64	.72	.72
42	.59	.59	.59	.59	-	-	42	.59	.59	.59	.59	-	-
50	.59	.59	.59	.59	-	-	50	.59	.59	.59	.59	-	-
66	-	-	_	_	.72	.72	66	-	-	_	_	.72	.72
75	.58	.58	.58	.58	-	-	75	.58	.58	.58	.58	_	-

Outline Hoods- Drawn Aluminum

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

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





Dimensions

XMRA Drawn Hoods for use with XAC Connectors.

Hoods - Side Cable Opening

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

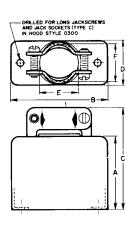
Hoods - Top Cable Opening

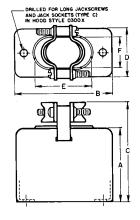
	•	9						
ForUse With	Hood Part No. (If ordered	DIMENSIONS						
	separately)	Α	В	С	D	E	F	
Type C Jack	XMRA 34-0700	2.09	.84	1.17	1.59	.66x.75	1.688	
Sockets and Jackscrews	XMRA 66-0700	2.38	1.22	1.17	1.69	1.03D	1.969	
Jacksciews	XMRA 104-0700	2.84	1.63	2.23	2.75	1.19D	2.375	
Type D Jack	XMRA 34-0700D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

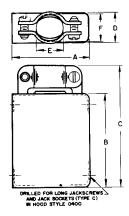


Outline Hoods-Formed Aluminum

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







Top Cable Opening

Large Top Cable Opening

Side Cable Opening

Dimensions

XMRE Formed Hoods for use with XAC Connectors

Hoods - Top Cable Opening

For use with	For use with Type C Jacksockets & Jackscrews	For use with Fixed Jackscrews*		Dime	nsions		Ca Ope	Wt. Oz. (Inc. 2 Cable	
Monojacks	Hood Part No. (If ordered separately)		Α	A В С [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

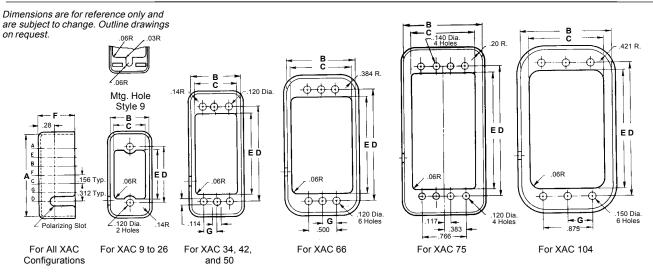
^{*} For use with G, K, or N guides, eliminate letter "J" from part number

Hoods - Side Cable Opening

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

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

Outline Shells-Receptacles



Dimensions Shells - Receptacles

Important Note When Ordering | Plug and Receptacle Shells

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

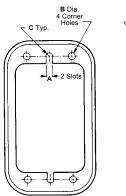
TYPICAL SHELLS FOR MONOJACKS STYLE No. 4000

Shells are .040 in. thick.

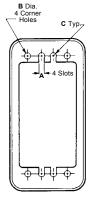
Shells are aluminum, anodized for protection against corrosion. Either shell style - plug or receptacle - may be used to house the female insert, thus allowing the "live" socket contacts to be cable or panel mounted, as desired. Shells also provide a means by which connector polarization is accomplished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

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

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



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



For XAC 75 Configuration

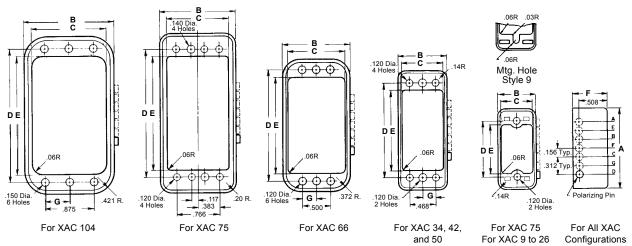


Receptacle Shell Style No. 2000 Shells are .040 in, thick.



Outline Shells - Plugs

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



Dimensions

Important Note When Ordering Plug Shells

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

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

Shells are .040 in. thick.

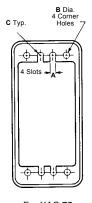
Stainless steel shells available for 66 and 104 sizes. Dimensions vary from those shown for aluminum shells. Check sales for availability and dimensions on all sizes.

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

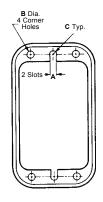
TYPICAL SHELLS FOR MONOJACKS STYLE No. 3000

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

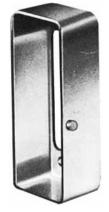
For Connector Size	Α	В	С
34, 42, 50, 66, 75	.11	.120	.06R
104	.14	.150	.07R



For XAC 75 Configuration



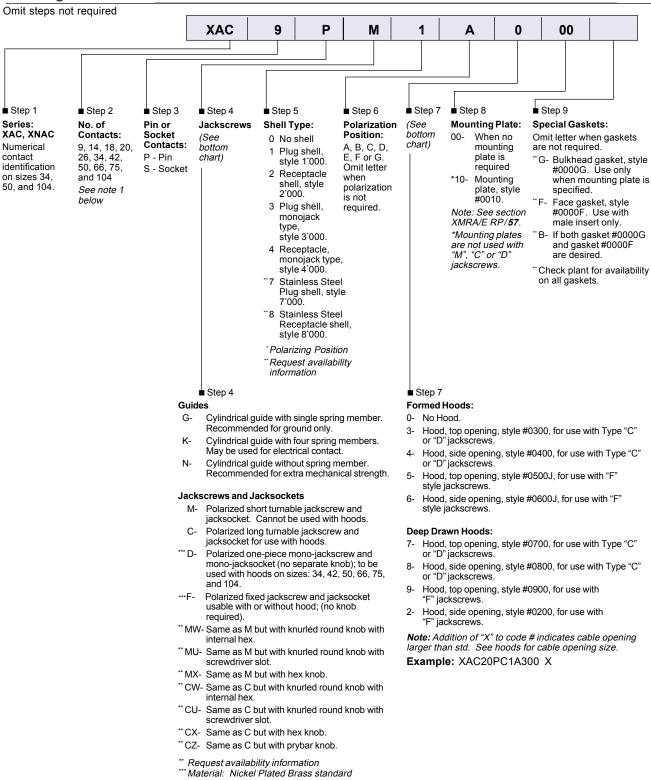
For XAC 34, 42, 50, 66, and 104 Configurations



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



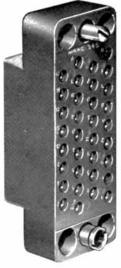
Ordering Informations



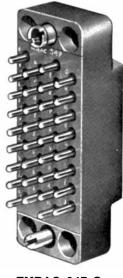
Note: 1. Contacts are ordered separately. See 100 Series contact section of Rack & Panel



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







TMRAC 34P-G



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

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

Specifications

Insulators: Polyester thermoplastic,

black color. High potential performance: withstanding voltage is one minute electrification at 2000 VAC

(sea level).

Insulation

Resistance: 500V

Thermal Shock: -55°F to +150°F

Hoods: Anodized aluminum. May be

applied on plug or receptable. Both top and side opening

hoods available.

Gold plated guides provide Polarization: positive polorization.

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

are available.

Number of Contacts:

Eight size connectors: 9-, 14-, 18-, 20-, 26-, 34-, 42- and 50-contact, available in either

.040" or .062" diameter.

Contacts: Must be ordered separately.

Select from crimp, solder, dip solder, shielded or Wire-Wrap termination contacts. See 100 Series contact section.

Contact

Identification: Standard contact identification

is alphabetical.

.040" diameter and .062" Sizes:

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

Termination

Types:

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

Current Rating: 7.5 amps maximum for

.040" contacts.

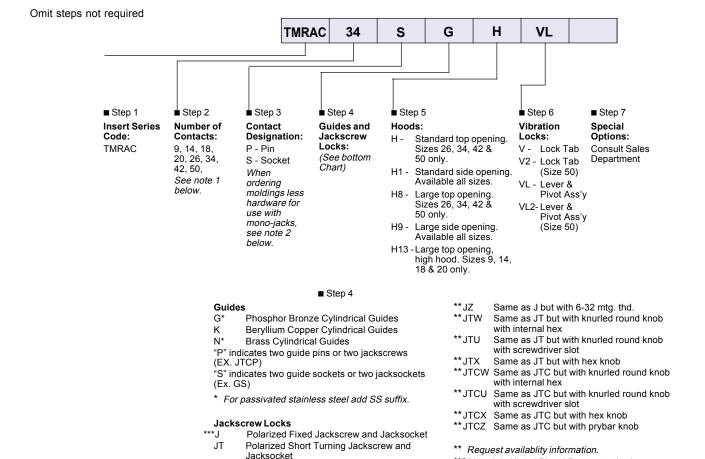
13 amps maximum for .062" contacts.



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



Ordering Information



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

Pin connector = TMRAC34P8, TMRAC42P8, etc. Socket connector = TMRAC34S8, TMRAC42S8, etc.

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

*** Material: Nickel Plated Brass standard

Dimensions

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

Polarized Long Turning Jackscrew and

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

Jacksocket

50 only

***JTD



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







TXAC34SF2A010

TXAC34PM1A000

TXAC34PC1A700

The TXAC Series was designed for external installation specifically for the industrial/ commercial customer in high temperature, rough service applications. This series features the same military-type anodized aluminum hoods, rugged polyester thermoplastic insulators, screw-machine removable contacts, guide and jack hardware, and protective, anodized aluminum shells as the XAC Series. These features make this Series suitable for chassis mounting, bulkheads, or any outside surface equipment.

Specifications

Insulators: Polyester thermoplastic.

green color. High potential performance: withstanding voltage is one minute electrification at 2000 VAC

(sea level).

Insulation Resistance:

500V

Thermal Shock: -55°F to +150°F

Anodized aluminum. May be Hoods:

applied on plug or receptable. Both top and side

opening hoods available. Gold Plated guides provide

Polarization: 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.

Sizes:

.040" diameter and .062" 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.

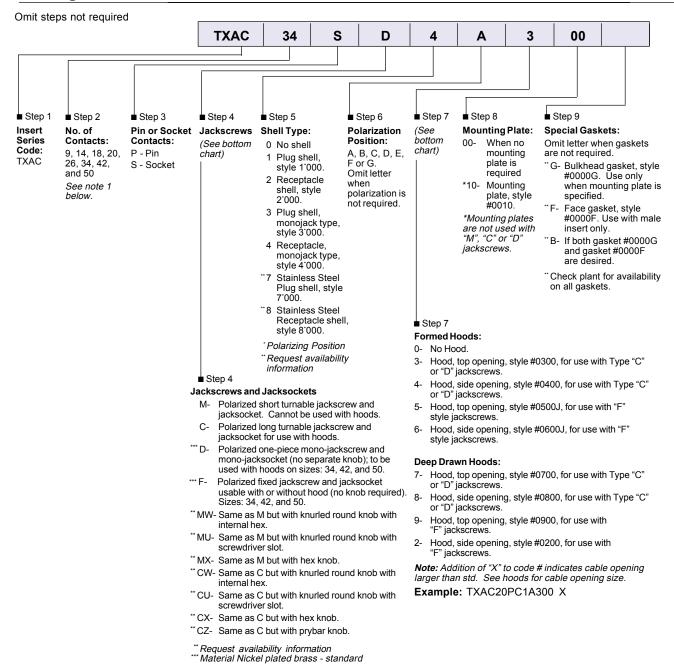
13 amps maximum for .062" contacts.

CSA Certified File No. LR34182

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



Ordering Infomation



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

Dimensions

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



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







Receptacle MRA 34S-G

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.

Polarization: Gold plated guides provide

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

are available.

Anodized aluminum. May be Hoods:

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







Termination Types

Solder Cup

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

Dip Solder

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

Guide Sockets

3 Types of Guide Sockets are Available

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

^{*} For passivated stainless steel add SS suffix

Physical Data

WEIGHT			N	UMB	ER (OF C	CONT	ACTS	3		
IN OZ.	9	14	20	34	41	42	50	50-8	66	75	104
PLUG	.5	.5	.5	1.1	1.2	1.2	1.5	1.5	2.0	2.3	3.1
RECEPTACLE	.4	.4	.4	.8	.9	.9	1.1	1.1	1.5	1.7	2.2

Special

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

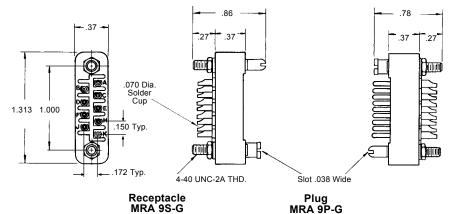
CONTACTS	CURRENT RATING	PIN DIAMETER	MAX. WIRE SIZE	SOLDER CUP DIA
8	20 amps	.093	#12 AWG	.106 D
.50	13 amps	.062	#16 AWG	.070 D



Outline

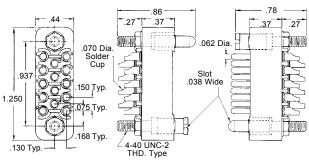
Dimensions are for reference only and are subject to change. Outline drawings

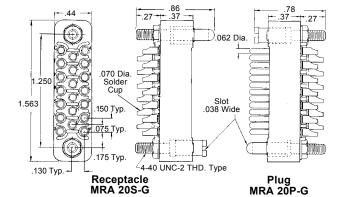
Drawings and corresponding part numbers show G type guide sockets.



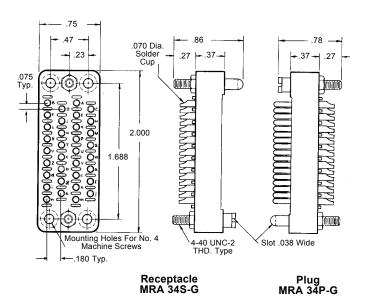
.86 .37 .062 Dia .070 Dia. Solder Cup

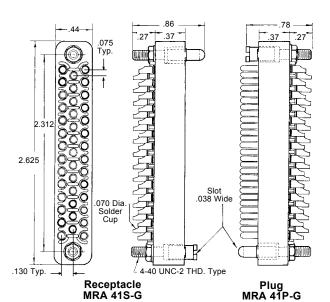
Plug MRA 9P-G





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

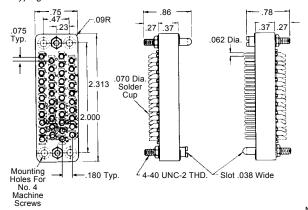


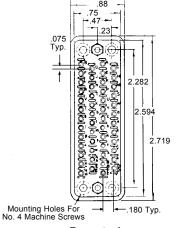


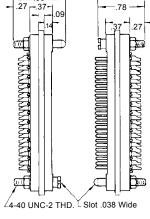
Outline

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

Drawings and corresponding part numbers show G type guide sockets.







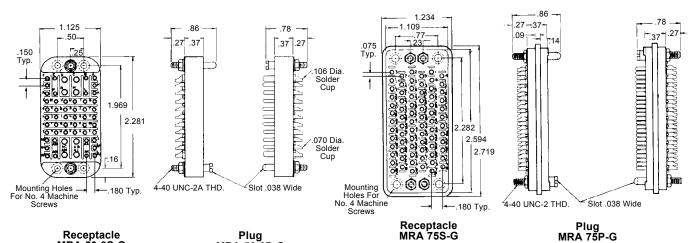
Receptacle **MRA 42S-G**

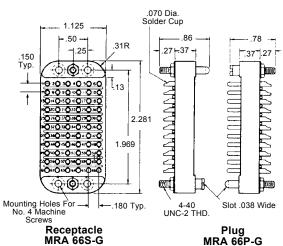
Receptacle MRA 50-8S-G

Plug MRA 42P-G

Receptacle MRA 50S-G

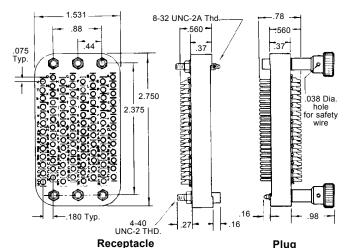
Plug MRA 50P-G





Plug MRA 66P-G

Plug MRA 50-8P-G



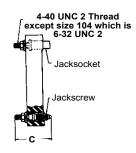
MRA 104S-J

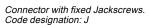
Plug MRA 104P-JT

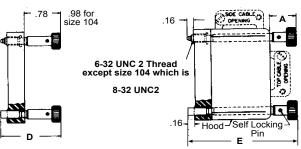
Polarized jackscrews give the ease and assurance of threaded positive coupling. The actuating side consists of two turnable screws, one male and one female, each with knurled and slotted knobs. On the mating half are the two fixed screws required to complete the locking action. When mated, the jackscrews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

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

Jackscrews & Jacksockets

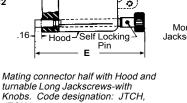


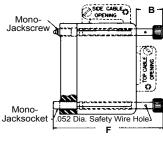




JTCH1

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





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

Dimensions

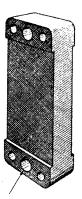
Dimensions are for reference only and are subject to change. Outline drawings on request.

Connec-	Dimension A		A				В	Dimen	Dimen	D	imen	sion	E	Dimension F				
tor Size	Н	H1	H8	H9	Н	H1	H8	Н9	С	D	Н	H1	H8	H9	Н	H1	H8	H9
MRA 9	_	.59	.58	.59	_	_	_	_	.80	1.31	-	2.41	2.09	2.41	-	-	_	-
MRA 14	-	.59	.58	.59	_	_	_	_	.80	1.31	_	2.41	1.84	2.41	-	-	_	
MRA 20	-	.59	.58	.59	_	_	_	_	.80	1.31	_	2.41	1.84	2.41	-	-	_	_
MRA 34	.63	.63	.63	.63	.63	.63	.63	.63	.80	1.31	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
MRA 41	.63	.63	_	_	_	_	_	_	.80	1.31	2.41	2.41	_	_	-	_	_	_
MRA 42	.58	.58	.58	.58	.58	.58	.58	.58	.80	1.31	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
MRA 50	.58	.58	.58	.58	.58	.58	.58	.58	.80	1.31	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
MRA 50-8	.77	-	_	.70	.50	-	-	.50	.80	1.31	2.47	_	_	2.41	2.19	-	-	2.19
MRA 66	.77	-	-	.70	.50	-	-	.50	.80	1.31	2.47	-	_	2.41	2.19	_	-	2.19
MRA 75	.56	.56	.56	.56	.56	.56	.56	.56	.80	1.31	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
MRA 104	.67	_	-	.67	.50	-	-	.50	.80	1.52	3.42	-	-	3.42	3.25	-	-	3.25

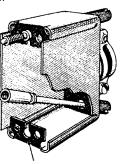
New Monojacks Assemble and Disassemble With Remarkable Ease and Speed

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

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



MOLDINGS HAVE STRAIGHT THRU HOLES

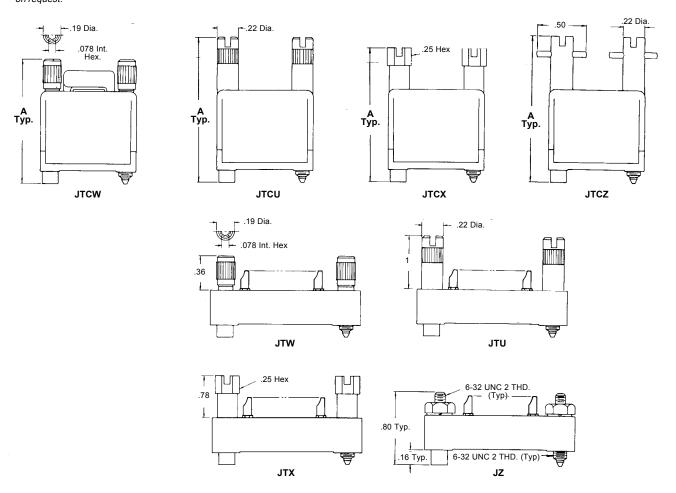


MONOJACKS ARE CAPTIVATED IN KEYHOLE SLOT OF HOOD AS SHOWN ABOVE. WHEN USING SHELLS, MONOJACKS ARE CAPTIVATED IN KEYHOLE OF SHELL AND CLEARANCE HOLES ARE PLACED IN HOODS.



Outline Jackscrews & Jacksockets

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



Dimensions

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

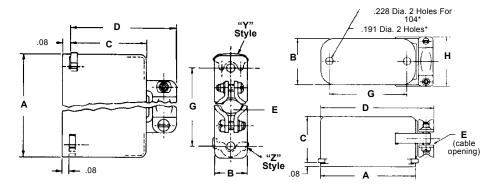
Hood Type

Size		Туре	JTCW		Size		Type	JTCU		Size Type JTCX				Size		Type	JTCZ		
0.20	Н	H1	H8	H9	0120	Н	H1	H8	Н9	0.20	Н	H1	H8	H9	0120	Н	H1	H8	H9
	D	imensi	on A			D	imens	ion A			D	imensi	on A			D	imensi	ion 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	ı	_	2.22	50-8	2.47	ı	_	2.47	50-8	2.34	ı	_	2.34	50-8	2.47	_	-	2.47
66	2.22	_	_	2.22	66	2.47	_	_	2.47	66	2.34	_	-	2.34	66	2.47	_	-	2.47
75	2.22	2.22	2.22	2.22	75	2.47	2.47	2.47	2.47	75	2.34	2.34	2.34	2.34	75	2.47	2.47	2.47	2.47



Outline Hoods-Drawn Aluminum

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



Dimensions

Top Cable Opening

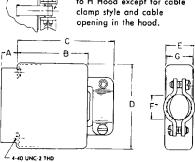
Side Cable Opening

Catalog		DIME	ENSIC	ONS -	ГОР ОРЕ	NIN	-	Wt.	Fits	Style
No.	Α	В	С	D	E	F	G	Oz.	Connector	•
MRA 34H-49	2.09	.84	1.17	1.59	.66 x .75	-	1.688	.6	MRA 34P MRA 34S	"Z"
MRA 50-8H	2.38	1.22	1.17	1.69	1.03D	-	1.969	.8	MRA 50-8P MRA 50-8S	"Y"
MRA 66H	2.38	1.22	1.17	1.69	1.03	-	1.969	.8	MRA 66P MRA 66S	"Y"
MRA 104H	2.84	1.63	2.23	2.75	1.19D	ı	2.375	1.0	MRA 104P MRA 104S	"Y"

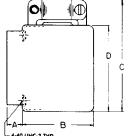
Catalog		D	IMEN	SIONS	- SIDE C	PENI	NG	Wt.	Fits	Style
No.	Α	В	С	D	E	Н	G	Oz.	Connector	_
MRA 34H9-491	2.09	.84	1.17	1.59	.64 x .75	1.06	1.688	.6	MRA 34P MRA 34S	"Z"
MRA 50-8H9	2.38	1.22	1.17	2.92	.84D	1.34	1.969	.8	MRA 50-8P MRA 50-8S	"Y"
MRA 66H9	2.38	1.22	1.17	2.92	.84D	1.34	1.969	.8	MRA 66P MRA 66S	"Y"
MRA 104H9	2.84	1.63	2.23	3.39	1.19D	1.63	2.375	1.0	MRA 104P MRA 104S	"Y"

Outline Hoods-Formerd Aluminum

MRE Series hoods for use with MRA Series connectors



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





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

Dimensions

Top Cable Opening

Side Cable Opening

H and H-8 Cable Clamps (Top Opening)

									9/
Code No.		Din	nensi	ons		Cal Ope		***.	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)







Hoods - Locking

Lock Tabs (MRE-V shown)

Lever & Pivot Assemblies (MRE-VL shown)

Vibration Locks*

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

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

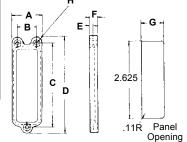
are provided for safety wiring. Vibration locks are available separately for assembly on connectors now in service. Each code number indicates two units: two levers with two pivots, and two lock tabs.

*US Patent Number 2760174

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

Dimensions / Outline Mounting Brackets

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



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

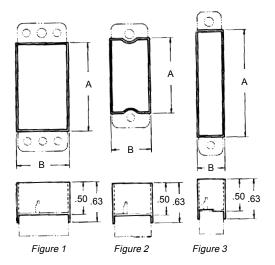
Dimensions / Outline Pre-Shaped Nylon Potting Forms

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

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

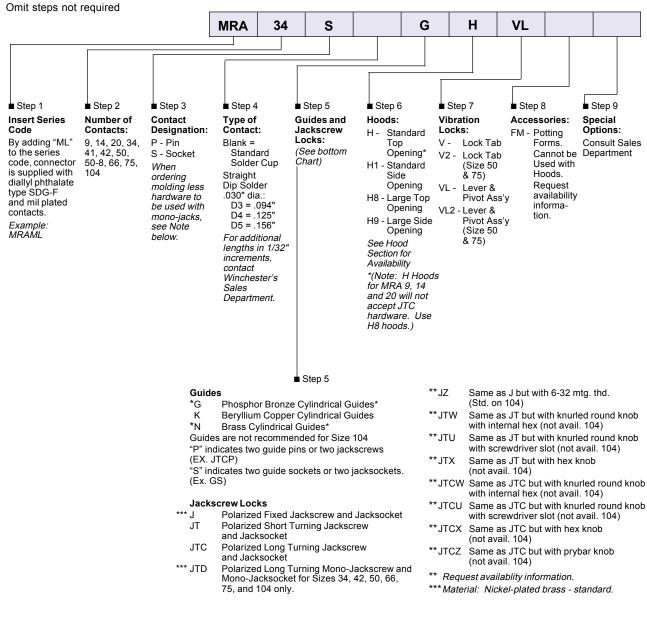
connector after potting. Because of floating contacts, connector halves should always be engaged during the potting operation to preserve contact alignment.

Potting Form	Fig.	Dimer	nsions
Code No.		Α	В
MRA 9 FM	3	.77	.43
MRA 14 FM	2	.93	.49
MRA 20 FM	2	1.12	.49
MRA 26 FM	2	1.18	.61
MRA 34 FM	1	1.38	.80
MRA 41 FM	2	2.18	.49
MRA 42 FM	1	1.69	.80
MRA 50 FM	1	1.97	.80
MRA 75 FM	1	1.98	1.16





Ordering Information



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

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

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

Pin connector = MRA34P8, MRA42P8, etc.

Socket connector = MRA34S8, MRA42S8, etc.

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

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







Receptacle MRE 14S-G

Plug MRE 14P-G

Hood MRE 14H

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

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

Specification

Current Rating: 7.5 amps

No. of

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

.040 dia., gold plated brass

Pin Contacts: Socket

Contacts:

Termination

Types:

Phosphor bronze plated gold.

.048 dia. solder cup is standard. It will accept up to

#20 AWG stranded wire. Pin and Socket Contacts available with dip solder terminations, .025 Dia. Check Sales Dept. for lengths available.

Electrical Data: Meets high potential

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

Dielectric: Brown mineral filled diallyl

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

SDG-F.

Polarization: Gold plated guides provide

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

available.

Hoods: Anodized aluminum. May be

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





Termination Types

Solder Cup

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

Dip Solder

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

Guide Forms

3 Types of Guide Sockets are Available

Guide Socket Code Letter	Application	Actual Size Photo	
G*	The "G" type socket is the standard guide supplied. It has good physical strength and may be used electrically in a low current circuit or as a contact for ground leads.	G Type For General Use Phosphor	
ĸ	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

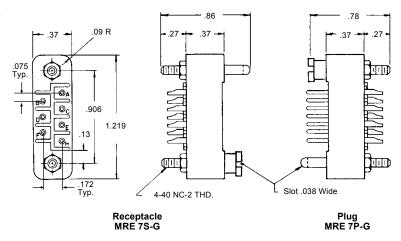
Physical Data

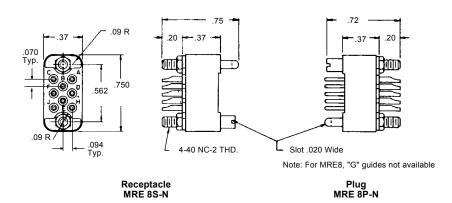
HOW TO ORDER: To obtain "K" or "N" guides in place of the standard "G" type, substitute the desired socket style code letter ("K" or "N") for "G" in both the Plug and Receptacle Code Numbers. (See Code Numbers in table at right.

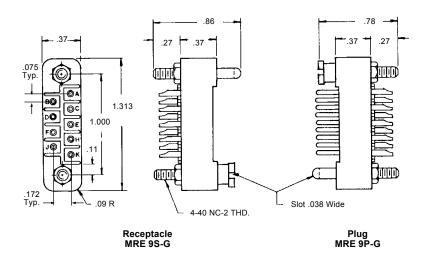
	Plug	Recept.	No. Standard Contacts, 7.5 Amps (.048 dia. solder cup for #20 AWG)	No. Standard Contacts, 10 Amps (.052 dia. solder cup for #18 AWG)	Weight Oz.			Plug	Recept.	No. Standard	No. Standard		
Total No. of Contacts	Winchester Electronics Code No.	Winchester Electronics Code No.				_	Total No. of Contacts	Winchester Electronics Code No.	Winchester Electronics Code No.	Contacts, 7.5 Amps (.048 dia. solder cup for #20 AWG)	Contacts, 10 Amps (.052 dia. solder cup for #18 AWG)		
7	MRE 7P-G	MRE 7S-G	7	none	.3	.3	26	MRE 26P-G	MRE 26S-G	26	none	.6	.5
8	MRE 8P-N	MRE 8S-N	8	none	.2	.2	34	MRE 34P-G	MRE 34S-G	34	none	.8	.7
9	MRE 9P-G	MRE 9S-G	9	none	.3	.3	41	MRE 41P-G	MRE 41S-G	41	none	.8	.6
11	MRE 11 P-G	MRE 11S-G	11	none	.3	.3	42	MRE 42P-G	MRE 42S-G	42	none	.9	.8
14	MRE14P-G	MRE 14S-G	14	none	.3	.3	50	MRE 50P-G	MRE 50S-G	50	none	1.0	.9
18	MRE 18P-G	MRE 18S-G	18	none	.4	.4	75	MRE 75 P-G	MRE 75S-G	75	none	1.5	1.3
20	MRE 20P-G	MRE 20S-G	20	none	.5	.4	104	MRE 104P-JT	MRE 104S-G	104	none	3.3	2.2
21	MRE 21P-G	MRE 21S-G	21	none	.5	.5							

Outline

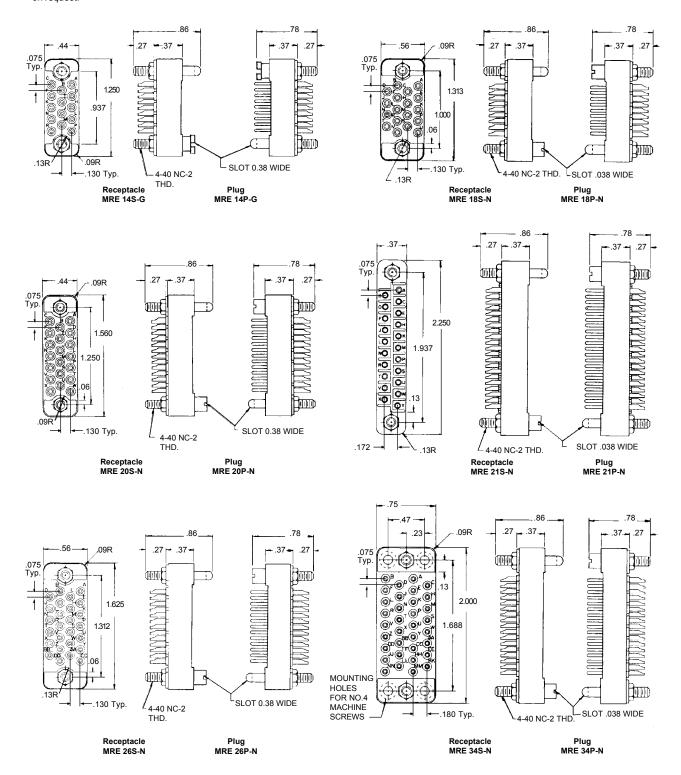
Dimensions are for reference only and are subject to change. Outline drawings on request.



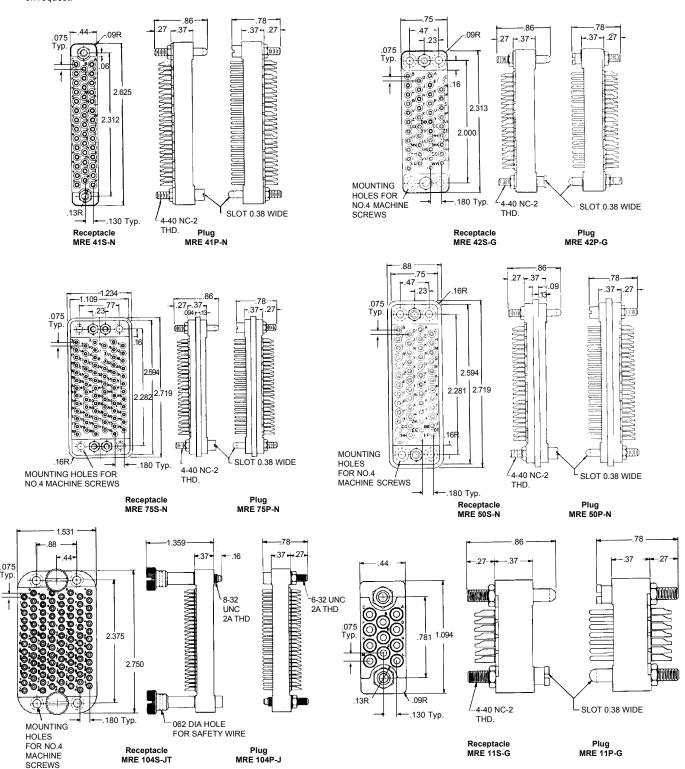




Dimensions are for reference only and are subject to change. Outline drawings on request.



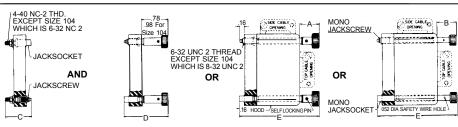
Dimensions are for reference only and are subject to change. Outline drawings on request.



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

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

Jackscrews & Jacksockets



Connector with fixed Jackscrews. Code designation: J

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

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

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

Dimensions

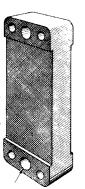
Dimensions are for reference only and are subject to change. Outline drawings on request.

tor Cino		men	sion	Α	Dimension B			Dimen	Dimension E				Dimension F					
tor Size	Н	H1	H8	Н9	Н	H1	H8	Н9	C	D	Н	H1	H8	H9	Н	H1	H8	H9
MRE 7	_	.58	.58	-	_	_	-	_	.80	1.31	_	2.09	2.09	_	_	-	_	- 1
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	_	_	_	- 1
MRE 14	_	.59	.58	.59	_	_	-	_	.80	1.31	_	2.41	1.84	2.41	_	-	_	- 1
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	_	-	_	- 1
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	1	-	-	-	ı	-	.80	1.31	2.41	2.41	-	-	-	-	_	_
MRE 42	.58	.58	.58	.58	.58	.58	.58	.58	.80	1.31	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
MRE 50	.58	.58	.58	.58	.58	.58	.58	.58	.80	1.31	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
MRE 75	.56	.56	.56	.56	.56	.56	.56	.56	.80	1.31	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
MRE 104	.67	-	_	.67	.5	_	_	.5	.80	1.52	3.42	_	_	3.42	3.25	-	_	3.25

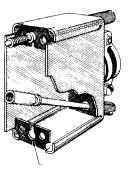
New Monojacks Assemble and Disassemble With Remarkable Ease and Speed

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

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



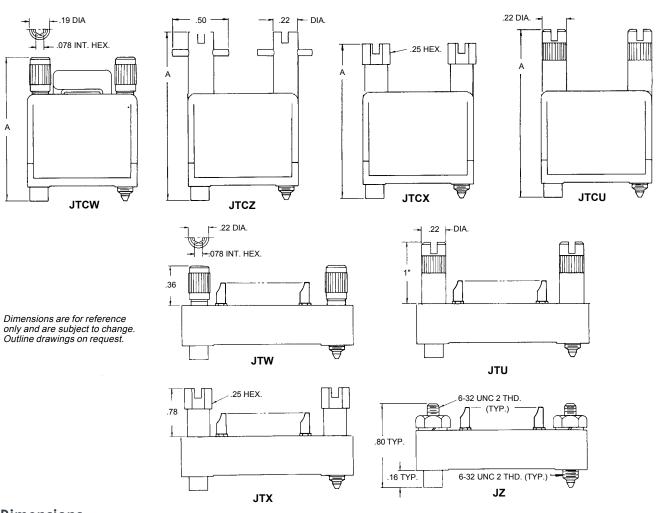
MOLDINGS HAVE STRAIGHT THRU HOLES



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



Outline Jackscrews & Jacksockets



Dimensions

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

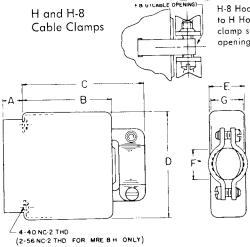
Hood Type

Size		Type	JTCW		Size		Type	JTCU		Size		Type	JTCX		Size		Type	JTCZ	
0126	Н	H1	H8	Н9	OIZE	Н	H H1	H8	H9	OIZE	Н	H1	H8	Н9	Oize	Н	H1	H8	Н9
	D	imens	ion A			D	imens	ion A			С	imens	ion A			D	imensi	on A	
7	-	1.91	1.91	_	7	-	2.16	2.16	_	7	-	2.03	2.03	_	7	-	2.16	2.16	_
9	-	2.22	1.91	2.22	9	_	2.47	2.16	2.47	9	_	2.34	2.03	2.34	9	_	2.47	2.16	2.47
14	-	2.22	1.66	2.22	14	_	2.47	1.91	2.47	14	_	2.34	1.78	2.34	14	_	2.47	1.91	2.47
18	_	2.22	1.66	2.22	18	-	2.47	1.91	2.47	18	_	2.34	2.03	2.34	18	_	2.47	2.16	2.47
20	_	2.22	1.66	2.22	20	-	2.47	1.91	2.47	20	_	2.34	1.78	2.34	20	_	2.47	1.91	2.47
21	1.91	2.22	1.91	2.22	21	2.16	2.47	2.16	2.47	21	2.03	2.34	2.03	2.34	21	2.16	2.47	2.16	2.47
26	2.22	2.22	2.22	2.22	26	2.47	2.47	2.47	2.47	26	2.61	2.34	2.34	2.34	26	2.77	2.47	2.47	2.47
34	2.22	2.22	2.22	2.22	34	2.47	2.47	2.47	2.47	34	2.34	2.34	2.34	2.34	34	2.47	2.47	2.47	2.47
41	2.22	2.22	-	-	41	2.47	2.47	-	-	41	2.34	2.34	-	-	41	2.47	2.47	-	-
42	2.22	2.22	2.22	2.22	42	2.47	2.47	2.47	2.47	42	2.34	2.34	2.34	2.34	42	2.47	2.47	2.47	2.47
50	2.22	2.22	2.22	2.22	50	2.47	2.47	2.47	2.47	50	2.34	2.34	2.34	2.34	50	2.47	2.47	2.47	2.47
75	2.22	2.22	2.22	2.22	75	2.47	2.47	2.47	2.47	75	2.34	2.34	2.34	2.34	75	2.47	2.47	2.47	2.47

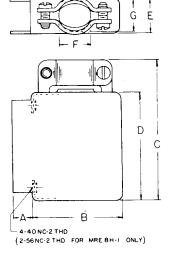


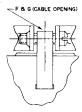
Outline Hoods-Formed Aluminum

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



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





H-9 Cable Clamp

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

Dimensions

Top Cable Opening

Code No.		Din	nensi	ons		Cab Open			Fits
	Α	В	С	D	E	F	G	Oz.	Connector
MRE 7H*	.28	1	1.31	1.22	.44	.31D	-	.3	MRE 7 (P or S)
MRE 7H-8	.28	1	1.30	1.22	.44	.59	.31	.3	MRE 7 (P or S)
MRE 8H*	.28	1	1.31	.81	.44	.25D	-	.2	MRE 8 (P or S)
MRE 8H-8	.28	1	1.30	.81	.44	.31D	-	.2	MRE 8 (P or S)
MRE 9H*	.28	1	1.31	1.31	.44	.31D	-	.3	MRE 9 (P or S)
MRE 9H-8	.28	1	1.30	1.31	.44	.59	.31	.3	MRE 9 (P or S)
MRE 14H*	.28	.75	1.19	1.25	.5	.44D	_	.3	MRE 14 (P or S)
MRE 14H-8	.28	.75	1.05	1.25	.5	.59	.38	.3	MRE 14 (P or S)
MRE 18H*	.28	.75	1.19	1.31	.63	.44D	_	.4	MRE 18 (P or S)
MRE 18H-8	.28	.75	1.25	1.31	.63	.63	.44	.4	MRE 18 (P or S)
MRE 20H*	.25	.75	1.19	1.56	.5	.44D	-	.3	MRE 20 (P or S)
MRE 20H-8	.25	.75	1.05	1.56	.5	.66	.38	.3	MRE 20 (P or S)
MRE 21H	.28	.91	1.34	2.25	.44	.59	.31	.5	MRE 21 (P or S)
MRE 21H-8	.28	.91	1.36	2.25	.44	.78	.31	.5	MRE 21 (P or S)
MRE 26H	.28	1.28	1.72	1.63	.64	.59	.38	.4	MRE 26 (P or S)
MRE 26H-8	.28	1.28	1.78	1.63	.64	.78	.44	.4	MRE 26 (P or S)
MRE 34H	.28	1.25	1.69	2	.83	.66D	_	.6	MRE 34 (P or S)
MRE 34H-8	.28	1.25	1.75	2	.83	1.06	.56	.6	MRE 34 (P or S)
MRE 41H	.28	1.25	1.69	2.63	.5	.66	.44	.6	MRE 41 (P or S)
MRE 42H	.09	1.30	1.73	2.31	.83	.63D	_	.7	MRE 42 (P or S)
MRE 42H-8	.09	1.30	1.80	2.31	.83	1.06	.56	.7	MRE 42 (P or S)
MRE 50H	.09	1.30	1.73	2.59	.83	.63D	_	.8	MRE 50 (P or S)
MRE 50H-8	.09	1.30	1.80	2.59	.83	1.06	.56	1.8	MRE 50 (P or S)
MRE 75H	.09	1.31	1.75	2.59	1.19	.63	.88	1.0	MRE 75 (P or S)
MRE 75H-8	.09	1.31	1.86	2.59	1.19	1	.88	1.0	MRE 75 (P or S)
MRA104H	FC	OR DI	MENS	ONS	SEE	PAGE	RP/	36	

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

Side Cable Opening

Code No.		Dim	nensi	ons		Oper		Wt.	Fits
	Α	В	С	D	Е	F	G	Oz.	Connector
MRE 7H-1	.28	1.28	1.53	1.22	.44	.31D	_	.3	MRE 7 (P or S)
MRE 8H-1	.28	1.28	1.13	.81	.44	.25	-	.2	MRE 8 (P or S)
MRE 8H-9	.28	1.28	1.13	.81	.44	.59	.31	.2	MRE 8 (P or S)
MRE 9H-1	.28	1.28	1.63	1.31	.44	.31D	_	.3	MRE 9 (P or S)
MRE 9H-9	.28	1.28	1.61	1.31	.44	.59	.31	.3	MRE 9 (P or S)
MRE 14H-1	.28	1.28	1.69	1.25	.5	.38D	-	.3	MRE 14 (P or S)
MRE 14H-9	.28	1.28	1.55	1.25	.5	.59	.38	.3	MRE 14 (P or S)
MRE 18H-1	.28	1.28	1.75	1.31	.63	.44D	-	.3	MRE 18 (P or S)
MRE 18H-9	.28	1.28	1.81	1.31	.63	.69	.44	.3	MRE 18 (P or S)
MRE 20H-1	.28	1.28	2	1.56	.5	.38D	-	.3	MRE 20 (P or S)
MRE 20H-9	.28	1.28	1.86	1.56	.5	.66	.38	.3	MRE 20 (P or S)
MRE 21H-1	.28	1.28	2.69	2.25	.44	.53	.25	.5	MRE 21 (P or S)
MRE 21H-9	.28	1.28	2.72	2.25	.44	.78	.31	.5	MRE 21 (P or S)
MRE 26H-1	.28	1.28	2.06	1.63	.64	.59	.38	.4	MRE 26 (P or S)
MRE 26H-9	.28	1.28	2.13	1.63	.64	.78	.44	.4	MRE 26 (P or S)
MRE 34H-1	.28	1.25	2.42	2	.83	.66D	-	.6	MRE 34 (P or S)
MRE 34H-9	.28	1.25	_	2	.83	.81	.56	.6	MRE 34 (P or S)
MRE 41H-1	.28	1.25	3.06	2.63	.5	.66	.44	.6	MRE 41 (P or S)
MRE 42H-1	.09	1.30	2.73	2.31	.83	.63	.5	.7	MRE 42 (P or S)
MRE 42H-9	.09	1.30	-	2.31	.83	.84	.56	.7	MRE 42 (P or S)
MRE 50H-1	.09	1.30	3.02	2.59	.83	.63	.5	.8	MRE 50 (P or S)
MRE 50H-9	.09	1.30	-	2.59	.83	1.06	.56	.8	MRE 50 (P or S)
MRE 75H-1	.09	1.31	3.02	2.59	1.19	.63	.88	1.0	MRE 75 (P or S)
MRE 75H-9	.09	1.31	-	2.59	1.19	1	.88	1.0	MRE 75 (P or S)
MRA104H-9	FC	R DIN	/ENSI	ONS	SEE	PAGE	RP/3	36	



Lock Tabs (MRE-V shown)

Lever & Pivot Assemblies (MRE-VL shown)

Hoods - Locking

Vibration Locks*

 Lever & Pilot Assembly
 Lock Tabs (See Note)
 Used on Connectors

 MRE-VL
 MRE-V
 MRA 9, 14, 20, 34, 41, 42, 66

 MRE-VL2
 MRE-V2
 MRE 50,75

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

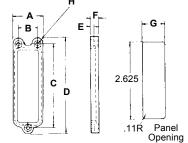
are provided for safety wiring. Vibration locks are available separately for assembly on connectors now in service. Each code number indicates two units: two levers with two pivots, and two lock tabs.

*US Patent Number 2760174

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

Dimensions / Outline Mounting Brackets

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



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

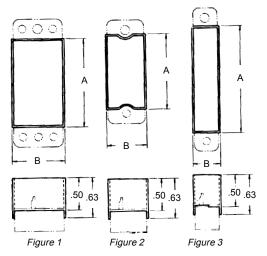
Dimensions / Outline Pre-Shaped Nylon Potting Forms

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

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

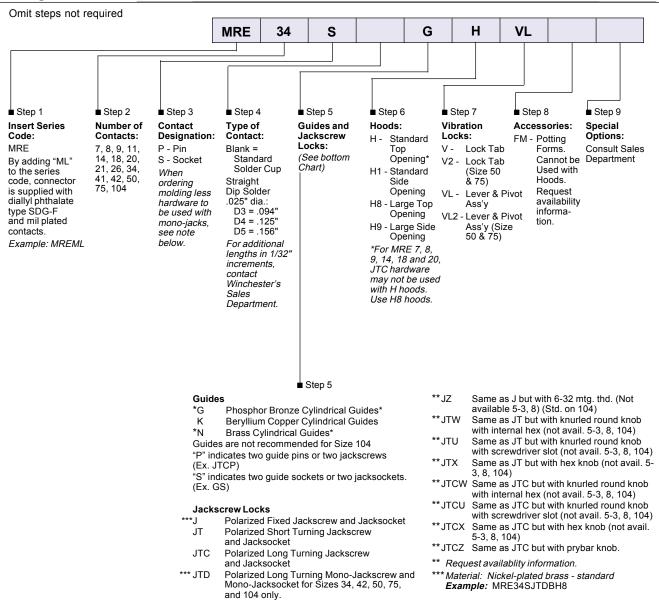
the connector after potting. Because of floating contacts, connector halves should always be engaged during the potting operation to preserve contact alignment.

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





Ordering Information



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

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

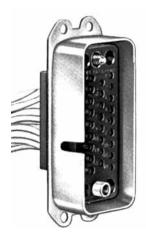
Note: When ordering hoods, hardware and connectors separately for use with JTD Monojacks, connectors must be ordered as follows:

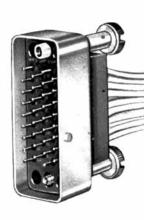
Pin connector = MRE34P8, MRE42P8, etc.

Socket connector = MRE34S8, MRE42S8, etc.

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

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





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

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

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

Specifications

Current Rating:XMRA - 13 amps XMRE - 7.5 amps

No. of

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

42, 50, 75, 104

Pin Contacts: XMRA - .062 diameter, gold

plated brass

XMRE - .040 diameter, gold

plated brass

Socket Contacts:

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 guide pins and sockets are alternative methods of

polarization.

Anodized Aluminum. May be Hoods:

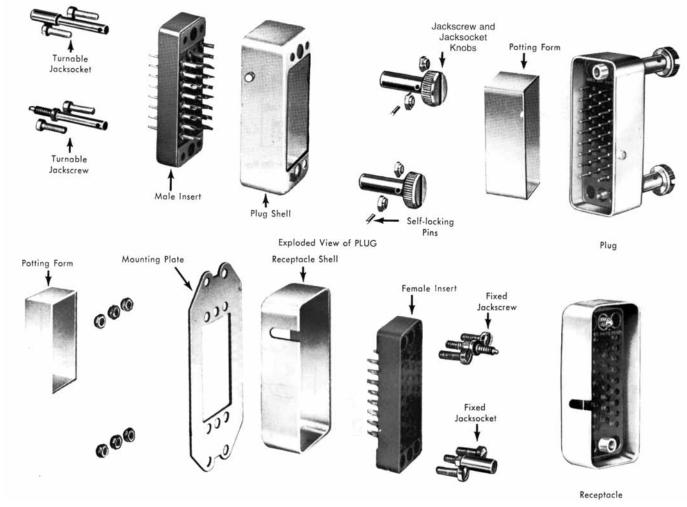
applied to both plug and receptacles. Both top and side opening hoods are

available.



Connector Assemblies





Connector Terms

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

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

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

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

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

Male Insert: The molded insulator body containing pin contacts.

Femal Insert: The molded insulator body containing socket contacts.

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

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

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

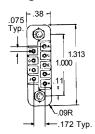
Potting Form: A plastic mold used to retain and shape the sealing compound during the moisture-proofing, or potting operation.

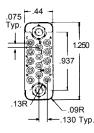
Potting: A method of moisture-proofing the back of a plug or receptacle and the soldered wire connections by injecting a free flowing sealing compound into a pre-shaped form and allowing it to set. The result is a homogeneous mass, chemically bonded to the back of the insert and around the soldered connections.

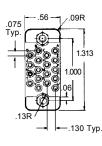
Accessories: Those components such as hoods, mounting plates and finger grips which are attachable to a plug or receptacle to facilitate mounting and/or handling of the connector.

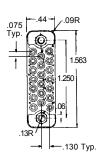
Dimensions are for reference only and are subject to change. Outline drawings on request

Contact Arrangements







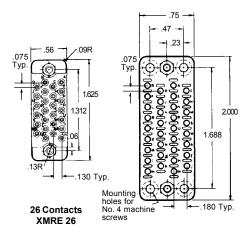


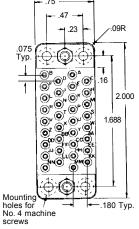
9 Contacts XMRE 9 or XMRA9

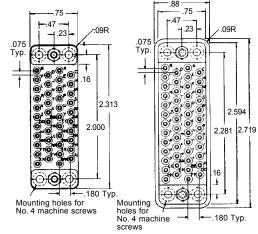
14 Contacts XMRE 14 or XMRA 14

18 Contacts XMRE 18

20 Contacts XMRE 20 Or XMRA 20





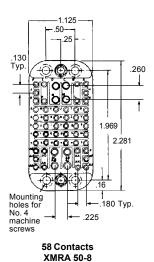


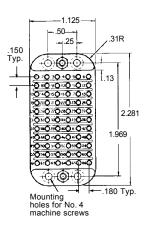
34 Contacts XMRA 34

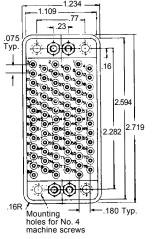
34 Contacts XMRE 34

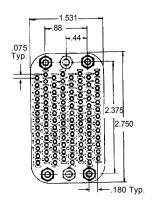
42 Contacts XMRE 42 or XMRA 42

50 Contacts XMRE 50 or XMRA 50









66 Contacts XMRA 66

75 Contacts XMRE 75 or XMRA 75

104 Contacts XMRA 104 XMRE 104

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



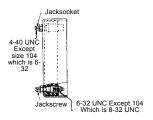
Jackscrews & Jacksockets

Jackscrew Locking Devices

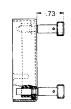
Polarized jackscrews offer the ease and assurance of threaded positive coupling. They are particularly desirable for the larger connectors (XMRE 34 and larger) whenever they are to be used in locations that make it difficult to apply enough direct pull to separate the two halves of the connector.

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.

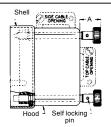
Outline



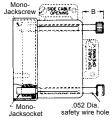
Connector with fixed Jackscrews Code designation: F



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



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



Code designation: C-0300, C-0400

OR

Mating connector half with Hood and

turnable Monojacks

Code designation: D-0300, D-0400

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

Dimensions

Dimension A

SERIES	CODE	9	14	18	20	26	34	42	50	50-8	66	75	104
	0300	_	_	_	_	.77	.58	.53	.53	_	_	.52	_
XMRE	0300X	.53	.53	.78	.53	.55	.58	.53	.53	-	_	.52	-
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 I	Photo
G	G Type For General Use	
К	K Type For High Electrical Conductivity	Standard Guide Pin mates with all types
N	N Type For Extra Mechanical Strength	

MATERIALS "G" Socket:

Phosphor bronze.

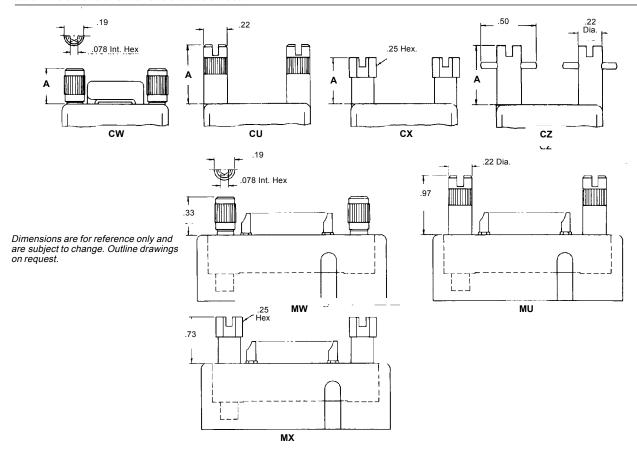
FINISH Gold over Nickel

"K" Socket: "N" Socket:

Beryllium copper.

"N" Socket: Brass. Brass

Outline Jackscrews & Jacksockets



Dimensions

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

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

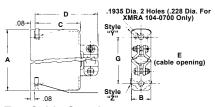
Jackscrew Locking For Series XMRE, XMRA

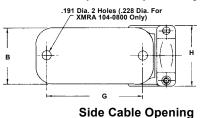
Size	0300	0400	0300X	0400X	0700	0800	Size	0300	0400	0300X	0400X	0700	0800
		Dimen	sion A -	Type C\	N				Dimen	sion A -	Type Cl	J	
9	_	.36	.34	.36	_	_	9	-	.61	.59	.61	_	_
14	-	.36	.34	.36	_	_	14	-	.61	.59	.61	_	_
18	ı	.36	.34	.36	ı	ı	18	ı	.61	.59	.61	ı	_
20	ı	.36	34	.36	ı	-	20	ı	.61	.59	.61	ı	_
26	.36	.36	.36	.36	_	_	26	.61	.61	.61	.61	_	_
34	.39	.39	.39	.39	.47	.47	34	.64	.64	.64	.64	.72	.72
42	.34	.34	.34	.34	-	-	42	.59	.59	.59	.59	_	-
50	.34	.34	.34	.34	_	_	50	.59	.59	.59	.59	-	-
50-8	-	_	_	-	.47	.47	50-8	-	_	_	-	.72	.72
66	1	-	-	ı	.47	.47	66	ı	_	-	ı	.72	.72
75	.33	.33	.33	.33	ı	ı	75	.58	.58	.58	.58	-	_
Size	0300		0300X			0800	Size	0300		0300X			0800
		Dimer	sion A -	Type C	X					sion A -	Type C	Z	
9	_	.48	.47	.48	_	-	9	_	.61	.59	.61	_	_
14	_	.48	.47	.48	_	-	14	_	.61	.59	.61	_	_
18	_	.48	.72	.48	_	-	18	_	.61	.84	.61	_	_
20	_	.48	.47	.48	_	-	20	_	.61	.59	.61	_	_
26	.77	.48	.48	.48	_	-	26	.92	.61	.61	.61	_	_
34	.52	.52	.52	.52	.61	.61	34	.64	.64	.64	.64	.72	.72
42	.47	.47	.47	.47	–	-	42	.59	.59	.59	.59	-	_
50	.47	.47	.47	.47	_	_	50	.59	.59	.59	.59	_	_
50-8	ı	_	-	_	.61	.61	50-8	-	_	_	-	.72	.72
66	ı	_	-	_	.61	.61	66	-	_	_	-	.72	.72
75	.45	.45	.45	.45	_	_	75	.58	.58	.58	.58	_	_

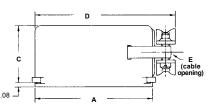


Outline Hoods- Drawn Aluminum

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







Top Cable Opening

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

Dimensions Hoods-Formed Aluminum

For use with	For use with Type C Jacksockets & Jackscrews	For use with G, K, or N, Type Guides *		Dime	nsions	3		ble ning	
Monojacks		Part No. separately)	А	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	J
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	0.5
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	l 1	.88	۱۰

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

AWIRE /5-0300AD	AWIRE /5-0300A	AWRE /5-0500A	11.31	11.00	2.59	1.19		.00	
For use with	For use with Type C Jacksockets & Jackscrews	For use with G, K, or N, Type Guides *	K, or N, Type				Ca Ope	ble ning	
Monojacks	Hood F	Part No.					E	F	Wt.
oo,uoo	(If ordered	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	0.3
	XMRE 20-0400	XMRE 20-0600	1.28	1.56	2	.5	.38D	-	0.3
	XMRE 20-0400X	XMRE 20-0600X	1.28	1.56	1.86	.5	.66	.38	0.3
	XMRE 26-0400	XMRE 26-0600	1.28	1.63	2.06	.64	.59	.38	0.4
	XMRE 26-0400X	XMRE 26-0600X	1.28	1.63	2.13	.64	.78	.44	0.4
XMRE 34-0400D	XMRE 34-0400	XMRE 34-0600	1.25	2	2.42	.83	.66	_	0.6
XMRE 34-0400XD	XMRE 34-0400X	XMRE 34-0600X	1.25	2	2.5	.83	.81	.56	0.0
XMRE 42-0400D	XMRE 42-0400	XMRE 42-0600	1.30	2.31	2.73	.83	.63	.5	0.7
XMRE 42-0400XD	XMRE 42-0400X	XMRE 42-0600X	1.30	2.31	2.81	.83	.84	.56	0.7
XMRE 50-0400D	XMRE 50-0400	XMRE 50-0600	1.30	2.59	3.02	.83	.63	.5	0.8
XMRE 50-0400XD	XMRE 50-0400X	XMRE 50-0600X	1.30	2.59	3.09	.83	1.06	.56	0.0
XMRE 75-0400D	XMRE 75-0400	XMRE 75-0600	1.31	2.59	3.02	1.19	.63	.88	1.0
XMRE 75-0400XD	XMRE 75-0400X	XMRE 75-0600X	1.31	2.59	3.14	1.19	1	.88	1.0
4 Add " I" to bood F	2/N whom wood with	"E" inalgarang							

Side Cable Opening

C

C

E & F (cable opening)

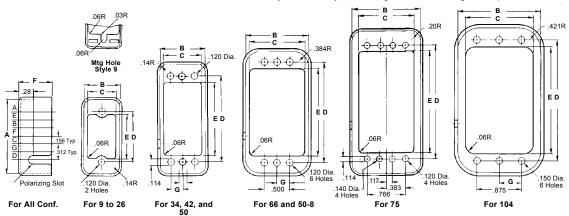
04400X & 0600X

Style Cable Clamp

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

Outline Shells - Receptacle

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



Dimensions Shells - Receptacle

Important Note When Ordering Plug and Receptacle Shells

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

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

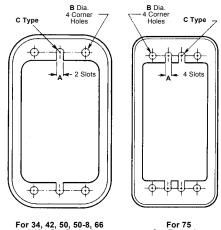
TYPICAL SHELLS FOR MONOJACKS

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

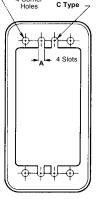
Stainless steel shells available for 66 and 104 sizes. Dimensions vary from those shown for aluminum shells. Check Sales for availability and dimensions on all sizes.

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

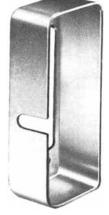
Shell Part No. (if ordered	Dimensions							
separately)	Α	В	С	D	Е	F	G	Oz.
XMRE 9-2*000	1.45	.52	.38	1.000	.88	.66	_	0.15
XMRE 14-2*000	1.39	.58	.45	.937	.81	.66	-	0.16
XMRE 18-2*000	1.45	.70	.58	1.000	.88	.66	_	0.17
XMRE 20-2*000	1.70	.58	.45	1.250	1.13	.66	-	0.19
XMRE 26-2*000	1.77	.70	.58	1.312	1.19	.66	ı	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







For 75 Configuration



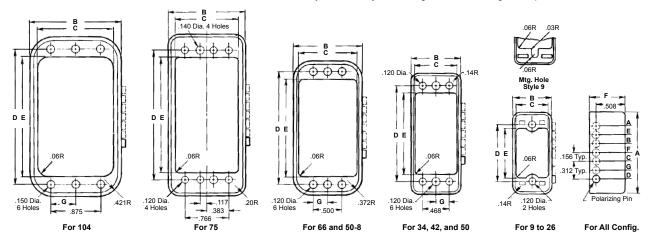
Receptacle Shell Style Number 2000

Shells are .040 in. thick.



Outline Shells - Plug

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

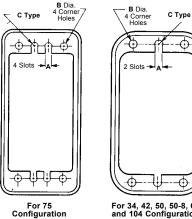


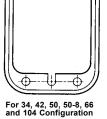
Dimensions

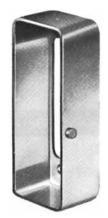
Shell Part No. (if ordered			Dir	nensi	ons			Wt.
separately)	Α	В	С	D	Е	F	G	Oz.
XMRE 9-1*000	1.44	.5	.38	1.000	.88	.63	_	0.14
XMRE 14-1*000	1.38	.56	.45	.937	.81	.63	_	0.15
XMRE 18-1*000	1.44	.69	.58	1.000	.88	.63	_	0.16
XMRE 20-1*000	1.69	.56	.45	1.250	1.13	.63	_	0.18
XMRE 26-1*000	1.75	.69	.58	1.312	1.19	.63	_	0.22
XMRE 34-1*000								
XMRE 34-3*000	2.13	.88	.75	1.687	1.44	.66	.234	0.24
XMRE 42-1*000								
XMRE 42-3*000	2.44	.88	.75	2.000	1.75	.66	.234	0.26
XMRE 50-1*000								
XMRE 50-3*000	2.84	1	.75	2.282	2.03	.66	.234	0.28
XMRA 66-1*000								
XMRA 66-3*000	2.41	1.25	1.13	1.969	1.72	.66	.250	0.28
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.

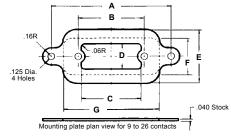
Outline Mounting Plates

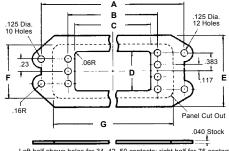
Dimensions are for reference only and are subject to change. Outline drawings on request.

Mounting Plates for External Miniature Rectangular Connectors, Potting Forms

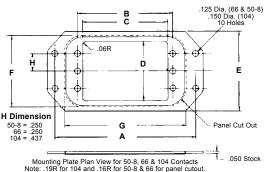
Mounting Plates enable attachment of a connector to a wall, bulkhead, or other supporting surface. The plate is assembled to the back of a plug or receptacle by employing the same hardware and/or guides used to retain the insert in the shell; No. 4 machine screws are then used to mount the complete assembly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



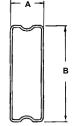
Dimensions

Mounting Plate Part No. (If Ordered		Dir	mensio	Pa Cu	Wt.			
Separately)	Α	В.	С	D	Е	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.





B B .025 Typ. Wall Thick

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	

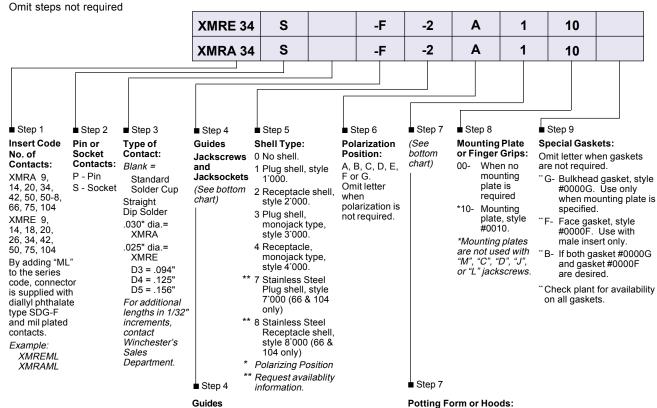
Potting Form Part No. (If Ordered Separately)	Dimer	Dimensions		
	Α	В		
XMRA 9-0100	.38	.86		
XMRA 14-0100	.45	1.11		
* XMRA 20-0100	.44	1.11		
XMRA 34-0100	.75	1.39		
XMRA 42-0100	.75	1.69		
XMRA 50-0100	.75	2.03		
XMRA 50-8-0100	1.13	1.72		
XMRA 66-0100	1.13	1.72		
XMRA 75-0100	1.11	2.03		
YMRA 104-0100	1 48	2 08		

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



XMRA & XMRE Series

Ordering Information



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

Jackscrews and Jacksockets

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

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

Formed Hoods:

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

Deep Drawn Hoods:

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

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

Example: XMRE34PD3A300X

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









SLE
.025 Diameter Contacts —

SRE .030 Diameter Contacts — 5 Amps

SME
.040 Diameter Contacts — 7.5 Amps

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

suited for aircraft, instrumentation and portable equipment applications.

Right angle, dip solder, pin or socket contacts

are available. Consult factory.

Specifications

Current Rating:SLE - 3 amps: SRE - 5

amps; SME - 7.5 amps.

No. of

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

34, 44, 50.

Pin Contacts: Brass, gold plated except for

SLE which is phosphor bronze, gold plated.

Socket

Contacts: Phosphor bronze, gold

plated.

Termination

Types: .037 diameter solder cup will

accept up to #22 AWG stranded wire. Solder cup adaptor (Part No. S45) will accept up to #20 AWG stranded wire. Dip solder terminations available for SRE Series, .030 Dia. Check Sales Department for

available lengths.

Military versions of SRE are QPL'd to M28748/7 and

M28748/8

Electrical Data: The dielectric withstanding

voltage is one minute

electrification at 1000 VAC.

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

SDG-F.

Guides: Type NSS stainless steel,

passivated or Type N Brass,

gold plated.

Jackscrews: Stainless steel, passivated.

Aluminum knobs on the jackscrews are equipped with set screws, except JTU jackscrews which have stainless steel knobs equipped with groove pins.

Hoods: Anodized aluminum. May be

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

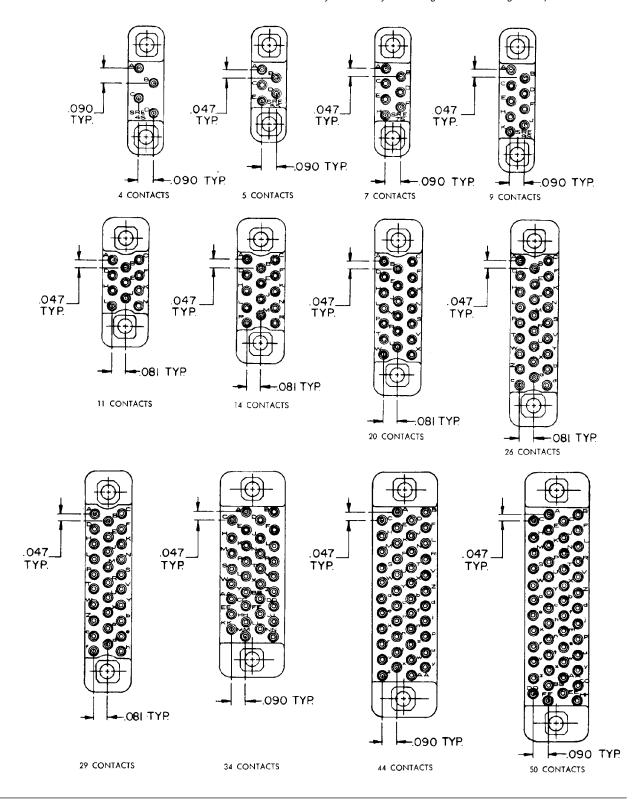
or jackscrews.



Contact Arrangement

Mating Face of Female Moldings - Male Moldings Reverse Image

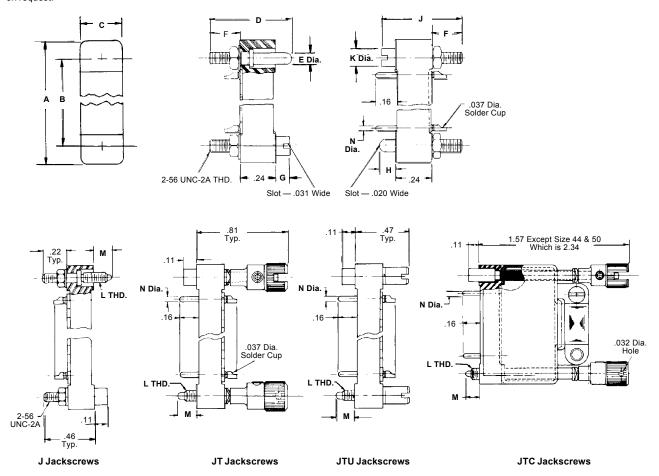
Dimensions are for reference only and are subject to change. Outline drawings on request.



SLE-SME-SRE Series

Outline

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



Dimensions

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

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

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

Series	D	E Dia	F	G	Н	J	K	L	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.

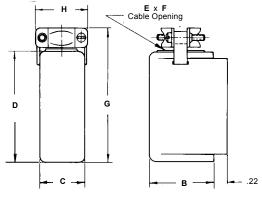


SLE-SME-SRE Series

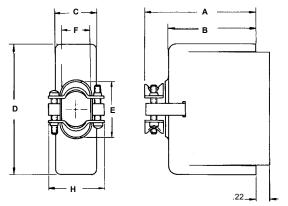
Outline

Hoods Formed Aluminum

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





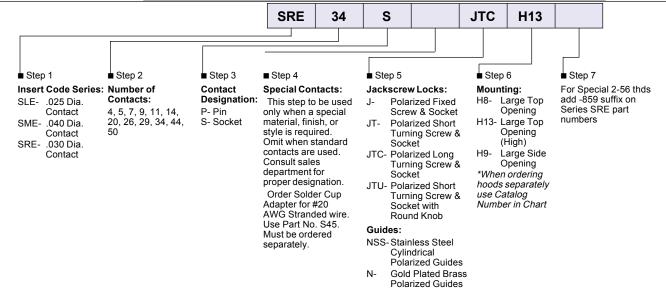


Style H8 / H13 — Top Cable Opening

Dimensions

Hood Style	Hood Catalog Number		ı	Dime	Ca Ope	No. of Con-				
Otyle	Guides Only*	Α	В	С	D	G	Н	E	F	acts
H8	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
			VA TON	AILAB	LE					9
H13	SRE29H13	1.02	.75	.34	1.34	-	.53	.41	.25	29
		ı	VA TOV	/AILAB	LE					44

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



SREC Series

Sub Miniature Rectangular, Removable Contacts



Tool 107-1012

The SREC series is the first family of subminiature crimp contact rack and panel connectors. While retaining all of the important features of true connector miniaturization, the SREC offers .030 diameter crimp (4 indents) type removable contacts with .094 center to center spacing. Contacts are precision machined to assure solid pin and socket reliability. Compact and light in weight, the SREC Series is especially suitable for aircraft, instrumentation, computer and portable equipment applications.

Specifications

Current Rating: 5 amps

No. of

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

44, 50

Pin Contacts: .030 dia. 4 indent crimp.

Leaded commercial bronze,

gold plated.

Socket Contacts: Phosphor bronze,

gold plated.

Termination

Crimp or .025 sq. wire wrap. Types:

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

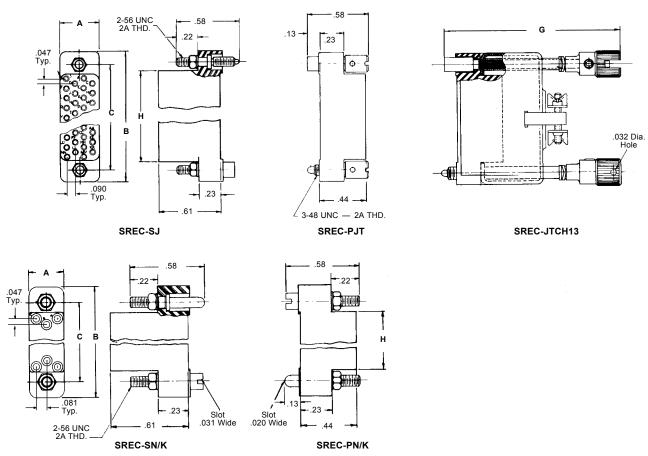
extra mechanical strength. Type K - beryllium copper for high electrical conductivity. Type NSS - stainless steel

Hoods: Top opening hoods are

available in all sizes. Side opening available for

SREC 50 only.

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



Dimensions

DI	DIMENSION CHART												
No. of Contacts A B C G H													
7	.20	.78	.56	1.67	.41								
14	.28	.88	.63	1.67	.50								
20	.28	1.06	.81	1.67	.69								
26	.28	1.25	1.000	1.67	.88								
34	.39	1.25	1.03	1.67	.88								
50	39	1 63	1 40	2 45	1 25								

SREC 11, 18 and 44 outline drawings on request

Physical Data

Weight		SREC 7	SREC 1	4 SREC 20	SREC 26	SREC	34 SREC 50
in Ounces	unces Plug		.05	.07	.08	.12	.15
(w/o contacts)	Plug	.04	.06	.08	.09	.15	.20
Component Parts		Guid	e Pin	Guide Socket	L Washe	er (2)	Nut (2)
Weight in Ounces		.0)2	.02	.007	'	.01

Contacts

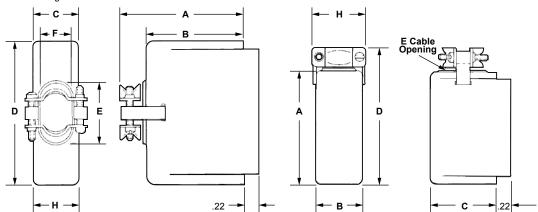
	Contact	Wire Size		Dimensions						
Part No.	Type	(Stranded)	Α	В	С	D	Current Rating			
100-4024P	P (Male)	24-26-28	_	.56	.028	.055				
100-4024S	S (Female)	24-26-28	.55	_	.028	.055	5 Amp			
100-4020P	P (Male)	20-22	_	.50	.046	_	3 Amp			
100-4020S	S (Female)	20-22	.48	_	.046	_				

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



Outline Formed Aluminum Hoods

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



Dimentions

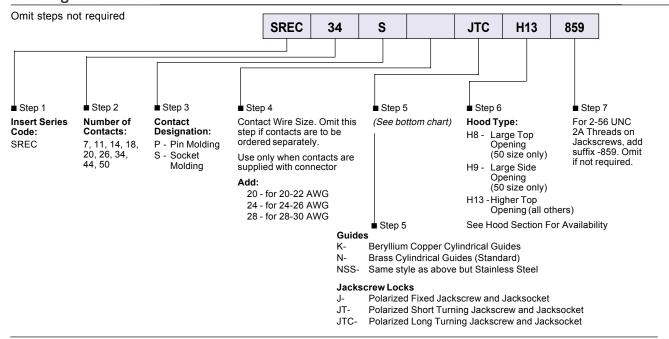
SRE/SREC Large Top Opening Hoods

Code No.*	ı	Dimensions Cable Opening						Fits Connector
	Α	В	С	D	Е	F	н	
SRE7H13	1.02	.75	.25	.78	.22	.16	.53	SRE 7 P/S SREC 7 P/S
SRE14H13	1.02	.75	.34	.88	.38	.25	.53	SRE 14 P/S SREC 14 P/S
SRE20H13	1.02	.75	.34	1.06	.38	.25	.53	SRE 20 P/S SREC 20 P/S
SRE26H13	1.02	.75	.34	1.25	.41	.25	.53	SRE 26 P/S SREC 26 P/S
SRE34H13	1.05	.75	.45	1.25	.73	.38	.63	SRE 34 P/S SREC 34 P/S
SRE50H8	1.80	1.50	.45	1.63	1.19	.38	.63	SRE 50 P/S SREC 50 P/S

SRE/SREC Large Side Opening Hoods

Code No.*	А	В	С	D	E	н	Fits Connector
SRE50H9	1.63	.45	1.50	1.92	1.19 x .38	.63	SRE 50 P/S SREC 50 P/S

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



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



42-45745



Te	rm	in	ati	on	Typ	9
- 1 -			uu	\mathbf{v}	1 7 1	,

Solder:
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,

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

Specifications

Current Rating: 5.0 amps.

Pin Contacts: .030" dia. gold plated brass

conforming to specification

QQ-B-626.

Socket Contacts: **Termination**

Gold plated phosphor bronze.

Solder cup, dip solder and

Housing Material:

Types:

crimp removable contacts.

Red diallyl phthalate for Dip Solder and Solder Cup

Housings. Green diallyl phthalate for Crimp Remov-

able Housings

Dielectric:

Minimum withstanding voltage is

one minute electrification at

1200 VAC.

Polarization:

Hoods:

Polarizing pins may be used in any combination in center row. Passivated stainless steel, Jackscrews:

anodized aluminum knobs.

Anodized aluminum, top

opening only.

Crimp Tooling

Automatic Crimping Machine:

Cat. No. 107-0952.

Hand Crimping Tool: Cat. No. 107-0616.

Locator:

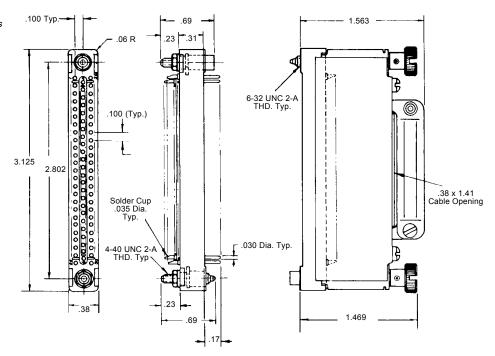
Cat. No. 107-0617.

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

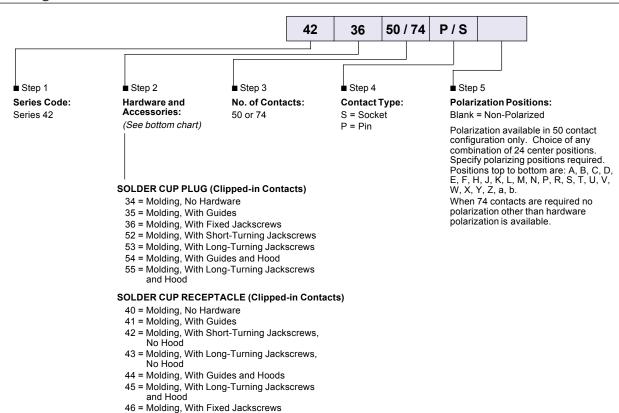
Contact Insertion Tool:

Cat. No. 107-1011.

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



Solder Cup, Clipped-in Contacts

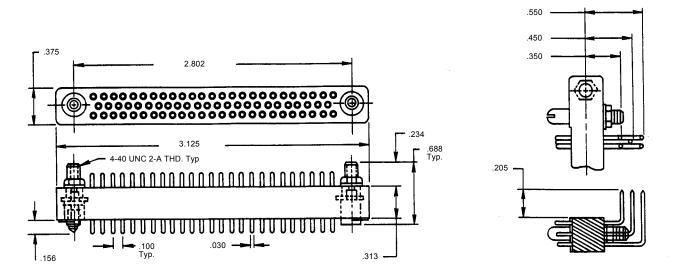


Dimensions are for reference only and are subject to change. Outline drawings on request.

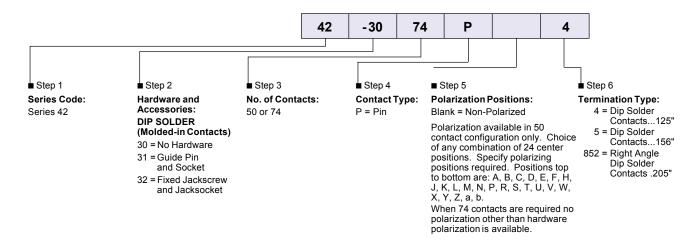
Dip Solder Receptacle

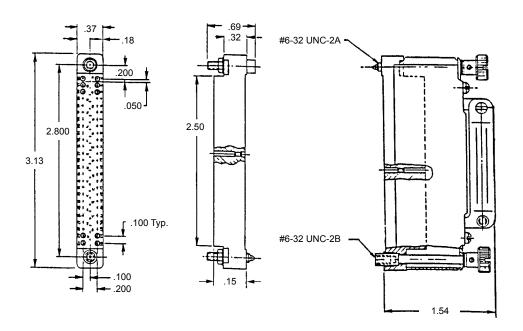
Shown

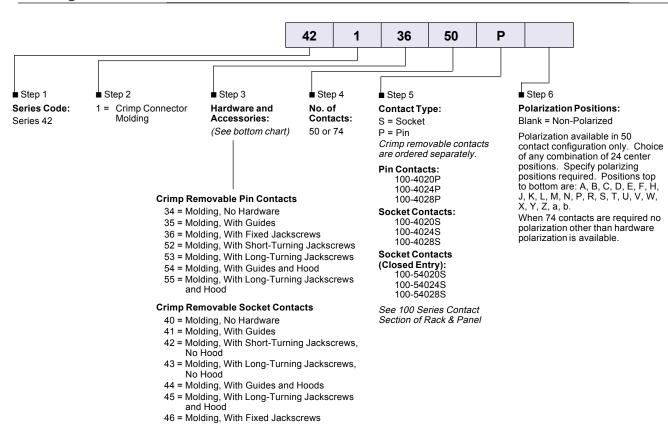
74 contact right angle configuration. Center row eliminated for 50 contact connector.



Dip Solder, Molded-in Contacts







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

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







XSRM14PNSS1000 SRM14SNSS0000





SRM26SCO300



XSRM26SM2000



SRM26PF0000

Specifications

Current Rating: 7.5 Amps

No. of

Contacts:

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

75, 104

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

Socket

Contacts:

Termination

Types:

Phosphor, bronze, gold plated.

.048 dia. solder cups will accept up to #20 AWG

stranded wire. Dip Solder Contacts, .030 dia. Check Sales Dept. for available

lengths.

Electrical Data: Minimum dielectric withstand-

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

Guides:

Hoods:

Shells:

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

N Type, brass.

Jackscrews:

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

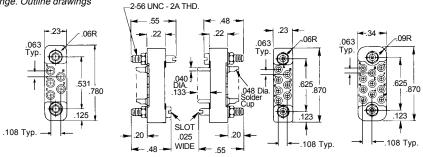
applied to either plug or receptacle. Both top and side openings are available.

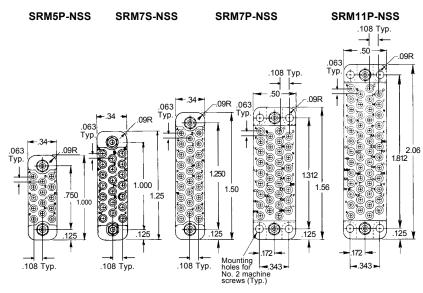
Polarized shells are available. SRM connector assembled

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

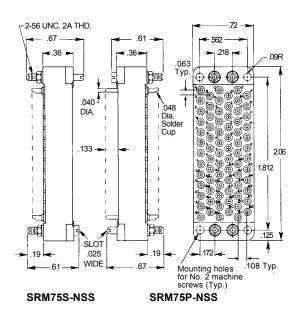
Contact Arrangements

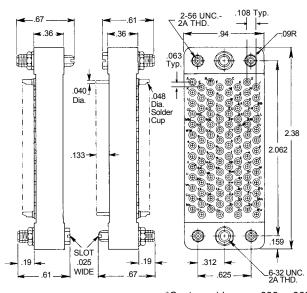
Dimensions are for reference only and are subject to change. Outline drawings on request.





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



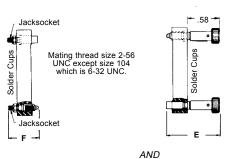


*Center guides are .038 x .062 SRM104S-NSS SRM104P-NSS

WinchesterInterconnect.

OUTLINE JACKSCREWS & JACKSOCKETS

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



Connector with fixed Jackscrews Code designation F Mating connector half with turnable Jackscrews-with-Knobs Code designation M

-Hood Set Screw В

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		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

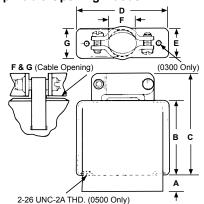
Note: Jackscrews and jacksockets are stainless steel with passivating dip. Knob is anodized aluminum.

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

Hoods-Formed Aluminum

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

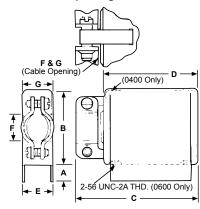
Top Cable Opening Hoods



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

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

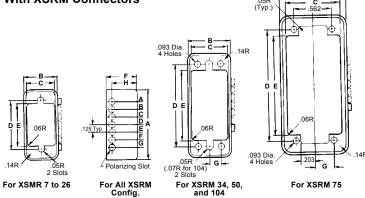


^{**}Request availability information.

Plug Shells

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

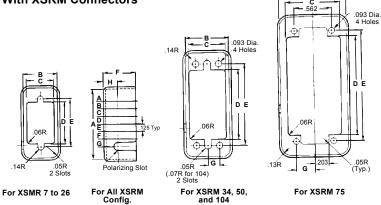
For Use With XSRM Connectors



Receptacle Shells

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

For Use With XSRM Connectors



Materials

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

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

Polarization

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

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

Shell Size	Available Polarization Positions	Shell Size	Available Polarization Positions
7	A,B,C,D	34	A,B,C,D,E,F,G
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

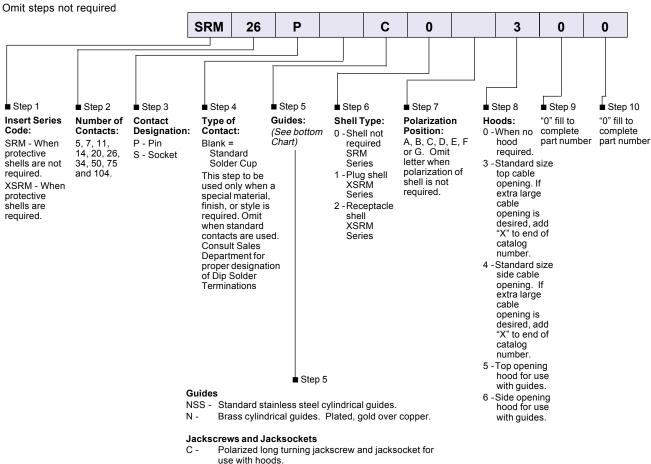
Plug Shells (.031" thick)

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		





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

PM6 Series

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









Nylon Nut

PM1SLR Plug with lock ring

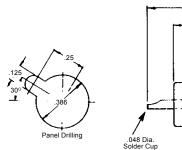
PM1PLS Receptacle with lock spring

Hood

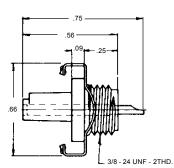
This connector was developed for applications requiring moderately high voltage ratings, this single contact connector is particularly well adapted to Photo-Flash, Aircraft, Instumentation and Communications Equipment.

Outline

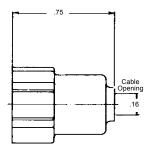
Dimensions are for reference only and are subject to change. Outline drawings on request.



PM1SLRN Plug with lock ring



PM1PLS Receptacle with lock spring



H10 Hood

Specifications

Current Rating: 7.5 amps

No. of

Contacts:

Pin Contacts: .040 dia. brass, gold plated

Socket Contacts:

Dielectric:

Phosphor bronze, gold plated

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

Electrical Data: Dielectric withstanding

voltage is one minute electrification at 5650 VAC.

Molded Diallyl phthalate per

MIL-M-14, type SDG-F.

Color Gray.

Polarization: Permits one engaging

position only and prevents rotation of the plug and

receptacle with respect to

each other.

Cable or panel mounted. Use

nylon nut applied to either plug

or receptacle.

Lock Ring (and

Mounting:

Hood:

Weight in

Ounces:

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.

Diallyl Phthalate cable hood

Receptacle .05, Plug .05, Washer .005, Hood .07,

Lock Ring .017,

Lock Spring .019, Nut .015

Ordering Information

PM1PLR- Connector, plug with lock ring

PM1SLS- Connector, receptacle with lock spring PM1PLS- Connector, plug with lock spring

PM1SLR- Connector, receptacle with lock ring PM1P-Connector, plug without vibration lock PM1S-Connector, receptacle without vibration lock

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

Add Nto above numbers when ordering nylon nut * When ordering hoods separately specify P/N H10T34 or H10CT34



PM6 Series



N Nylon Nut



PM6SLR Receptacle with lock ring



PM6PLS
Plug with lock spring

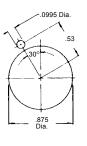


PM6H Hood

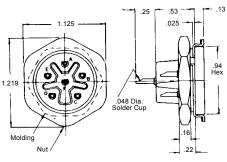
This connector was developed for applications requiring moderately high voltage ratings, this connector of minimum bulk and weight is particularly well adapted to Photo-Flash, Aircraft, Instumentation and Communications Equipment.

Outline

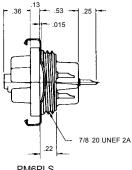
Dimensions are for reference only and are subject to change. Outline drawings on request.



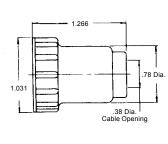
Panel Drilling



PM6SLRN Receptacle



PM6PLS *Plug*



PM6H *Hood*

Specifications

Current Rating: 7.5 amps

No. of Contacts:

Pin Contacts: .040 dia. brass, gold plated

Socket

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.

Dielectric: Molded Diallyl phthalate per

MIL-M-14, type SDG-F.

Color Gray.

Polarization: Body design makes it

impossible to make connection

except in proper position.

Mounting: Cable or panel mounted. Use

nylon nut applied to either plug

or receptacle.

Lock Ring (and

Hood:

lock spring): Prohibits connector rotation

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

tion due to vibration, etc.

Molded diallyl phthalate cable hood may be applied to either

plug or réceptacle.

Ordering Information

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

PM6PLR- Connector, plug with lock ringPM6SLS- Connector, receptacle with lock spring

PM6P- Connector, plug without vibration lock
PM6S- Connector, receptacle without vibration lock

Add **H-** to above numbers when ordering hoods
Add **N-** to above numbers when ordering nylon nut

SM Series

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









N

Nylon Nut

SM2 Receptacle SM2P Plug SMH Hood

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

Specifications

Current Rating: SM1 - 7.5 amps;

SM2, SM3 - 3 amps

No. of

Contacts: 1, 2, 3

Pin Contacts: SM1 - .040 dia.

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

Socket

Contacts: Phosphor bronze, gold plated

Terminations: SM1 - .048 dia. solder cup 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 an

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

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

order P/N SMH.

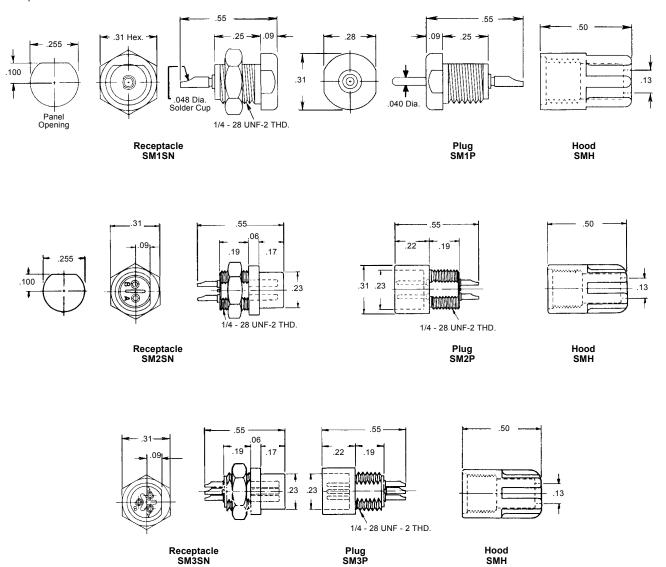
Physical and Electrical Data

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

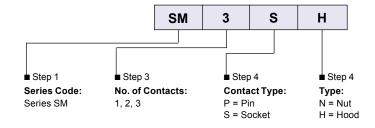
* Stranded

Mounting:

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



Ordering Information



M Series

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



M4PLSH10

Plug with lock spring and hood



M4SLRGN

Receptacle with lock ring, ground lug and nut



M10SLRN

Receptacle with lock ring and nut



M10PLSH19

Plug with lock spring and



N Nvlon Nut



M12SLS12
Receptacle with lock spring



M12P Plug



M12H

Hood with lock shell

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

Specifications

Current Rating: 7.5 amps

No. of Contacts:

4, 5, 7, 9, 10, 12

Pin Contacts: .040 dia. brass, gold plated

Socket

Contacts:

Spring temper phosphor

bronze, gold plated

Terminations: .048 dia. solder cup accepts

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

stranded wire.

Electrical Data: The dielectric withstanding

voltage is one minute electrification at 1500 VAC.

(2250 VAC for M12). **Dielectric:** Brown mineral filled d

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

phthalate, per MIL-M-14, SDG-F Polarization:

Body design permits engage-

Mounting:

ment in proper position only. For 1/16" panel mounting of either plug or receptacle use

cadmium plated brass nut for M4-10, nylon nut for M12. Add "**N**" to code number.

Lock Ring (and

lock spring): May be applied to plug or

receptacle to stop connector rotation on panel. When engaged with lock spring, prevents accidental disconnection due to vibration, etc.

Ground Lug:

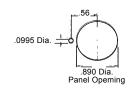
Can be used to ground any of the 4 contacts on M4 connector. Add "**G**" to code number.

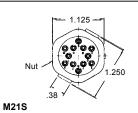
Hood: Anod

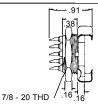
Anodized aluminum or brown mineral filled diallyl phthalate hoods may be applied to plug or receptacle of M4-M10. With or without cable clamps to provide additional strain relief

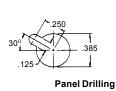
for the cable.

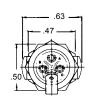
Dimensions are for reference only and are subject to change. Outline drawings on request.

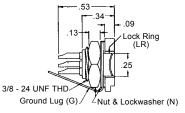


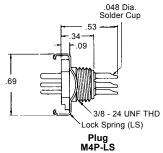


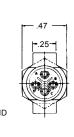






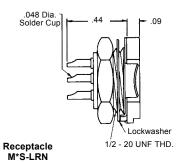


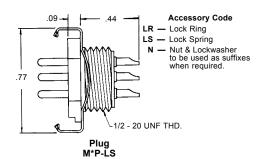


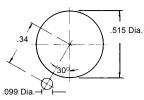


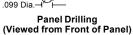
Receptacle M4S-LRGN

.56 A/F Hex Nut









Physical & Electrical Data



Contact Arrangement



Contact Arrangement



Contact Arrangement M9S



Contact Arrangement M10S

Contact locations are shown from terminal sides

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

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

Molded Diallyl Phthalate and Aluminum Hoods

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

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

Outline

on request.

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

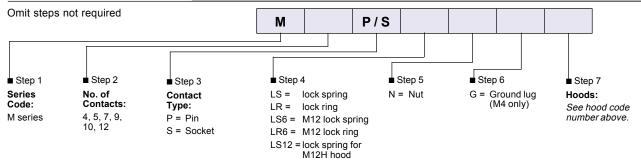
SET SCREW (4-40)

M9, M10

Physical Data

Hood	Used on			DI	MENSION	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	.66	.66	.55		1/2 - 20	.06
HG9	M5, 7, 9, 10	.22	.66	.66	.59		1/2 - 20	.10
HG18	M5, 7, 9, 10	.28	.66	.66	.59		1/2 - 20	.11
HG9C	M5, 7, 9, 10			See Dra	awing			.14
H14	M4			See Dra	awing			.25
H16	M5, 7, 9, 10	See Drawing						
H12H	M12			See Dra	awing		·	1.10

Ordering Information



JF Series

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

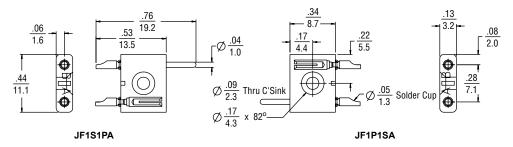
Outline

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

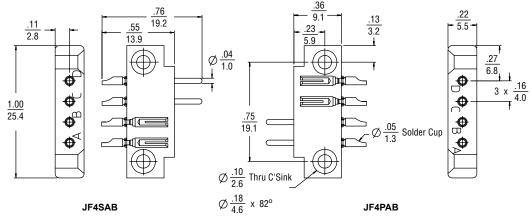
JF Series, PIN and Socket, 2 Position In-Line Connectors

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



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

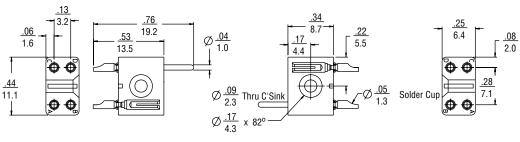
Dimensions shown are typical for all standard 4 position in-line connectors.



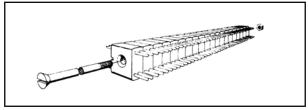
Side Mounting, 4 Position Rectangular, 2 and 4 Position In-Line

JF Series, PIN and Socket, 4 Position Rectangular Connectors

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



JF2S2PAB JF2P2SAB



JF-2P 20 connectors assembled

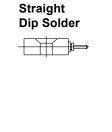
The versitile JF Series has a countersunk mounting hole and narrow width permitting exceptionally flat mounting. Maximum circuit density is provided with many positive polarizations. "Custom" multi-contact connectors are readily available by using the building block technique shown above.

Outline

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

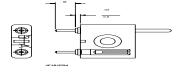
Typical Connector With DIP Solder Termination

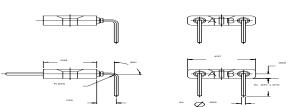
JF Series connectors may be ordered with dip solder and right angle terminations. Consult factory for availability.



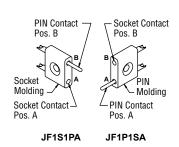
Right Angle Dip Solder

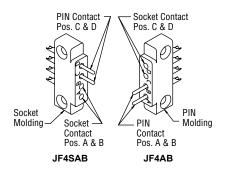


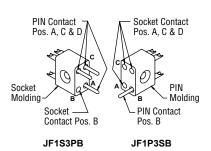




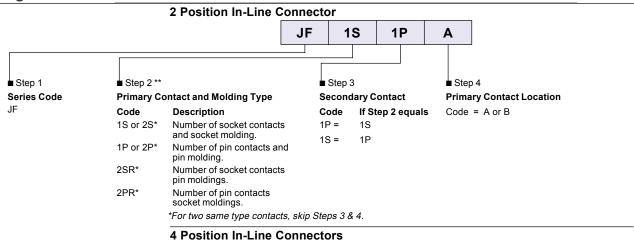
Typical Connectors Assemblies



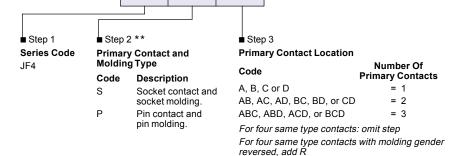




Ordering Information



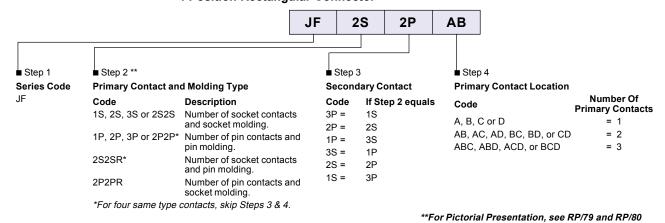
JF4



AB

S

4 Position Rectangular Connector



Specifications

Materials Performance Characteristics Dielectric Moldings (PIN

Withstanding and Socket): Diallyl Orthophthalate Voltage:

Pin Contacts: .040 Brass, gold plated

Socket

Contacts: Phosphor bronze,

gold plated

1500 VAC (at sea level)

Current Rating: 7.5 Amps

Operating

Temperature Range: -55°C to +125°C

Termination Type: .050 dia. solder cup to accept

#20 AWG stranded wire.



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.

Hood:

Electrical Data: Dielectric withstanding

voltage is one minute electrification at 2925 VAC.

Dielectric: Molded diallyl phthalate

per MIL-M-14

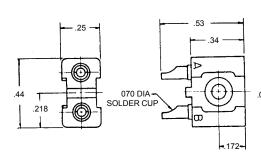
Locked to connector by

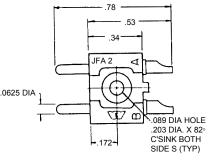
means of two side mounted

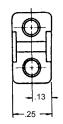
straps.

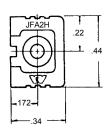
Outline

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









JFA-2S Receptacle

JFA-2P Plug

JFA-2H Hood

Ordering Information

Physical Data

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

JFA2H — Hood — used on any of above 3 parts

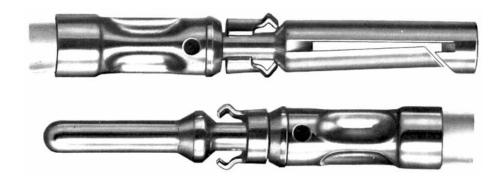
Mating Combinations

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



100 Series

Removable Contacts



6x Actual Size — Typical Removable Contact

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

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

Specifications

Pin Contacts: Copper Alloy, gold plated.

Socket Contacts:

Closed entry type machined

from copper alloy, gold

plated.

Tools: Complete line available.

Includes automatic pneumatic, pneumatic hand operated, hand operated crimping tools, insertion and

removal tools

Military

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

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

Wire Sizes:

Types:

Crimp, solder, dip solder or

wire-wrap

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

for .062 contacts.

To Order: Specify by catalog number

Series 100 Removable Contacts are not supplied with the Note:

connector. They must be ordered as a separate item.

100 Series Contacts

5431-14

107-0966

107-0961

5431-17 5431-17 5431-11

107-0981

5431-22

107-0903-2A

107-0945

 £
 £
 £
 £

 £
 £
 £
 £

.062 .062 .062

105

180

14-16

100-0919S

100-1014S 100-1016P

MRAC, TMRAC, XAC, TXAC MRAC, TMRAC, XAC, TXAC

100-1014P 100-0909P

5431-14

5431-11 107-0961 107-0966

107-0970 107-0977

5431-14

107-0903-2A 107-0918

107-0945

2

Crimp Contact Crimp Contact

.092

.067

MRAC, TMRAC, XAC, TXAC

16-18-20

100-0911P 100-0921S 100-0923S

100-0915P 100-0925S 100-0907P

100-1020S 100-1022P

100-0913P

100-1018P 100-1018S

.067

107-0970

5431-22

107-0918

107-0903-2A 107-0903-2A

107-0945

107-0966

107-0961

107-0981

Pneumatic Depth Gage Plug Tool Part Block Part Number Number Number

For Loose Contacts
Gage Plug Hand Tool Positioner Gage Plug
Part Part Part
Number Number Number

Pneumatic Tool

Hand Tool

Locator

AMPS per Cont

Contacts
Crimp
Contact

Mating Pin Diameter

¥

Accommodates Conductor Sizes

Loose Contact Part Number

Diameter (See Drawings)

For Loose Contacts

For Reeled Contacts

	5431-14	5431-14	5431-15	5431-15	5431-15	5431-15	5431-15	5431-15	5431-15	5431-15	5431-14	5431-14	5431-14	5431-14	5431-15	5431-15	5431-15	5431-15	5431-15	5431-15	
	107-0966	107-0966	107-0965	107-0965	107-0965	107-0965	107-0965	107-0965	107-0965	107-0965	107-0966	107-0966	107-0966	107-0966	107-0965	107-0965	107-0965	107-0965	107-0965	107-0965	
	107-0961	107-0961	107-0961	107-0961	107-0961	107-0961	107-0961	107-0961	107-0961	107-0961	107-0961	107-0961	107-0961	107-0961	107-0961	107-0961	107-0961	107-0961	107-0961	107-0961	
	5431-11	5431-11	5431-12	5431-12	5431-12	5431-12	5431-12	5431-12	5431-12	5431-12	5431-11	5431-11	5431-11	5431-11	5431-12	5431-12	5431-12	5431-12	5431-12	5431-12	
	107-0977	107-0977	107-0976	107-0976	107-0976	107-0976	107-0976	107-0976	107-0976	107-0976	107-0977	107-0977	107-0977	107-0977	107-0976	107-0976	107-0976	107-0976	107-0976	107-0976	
	107-0970	107-0970	107-0970	107-0970	107-0970	107-0970	107-0970	107-0970	107-0970	107-0970	107-0970	107-0970	107-0970	107-0970	107-0970	107-0970	107-0970	107-0970	107-0970	107-0970	
	5431-14	5431-14	5431-15	5431-15	5431-15	5431-15	5431-15	5431-15	5431-15	5431-15	5431-14	5431-14	5431-14	5431-14	5431-15	5431-15	5431-15	5431-15	5431-15	5431-15	
	107-0918	107-0918	107-0918	107-0918	107-0918	107-0918	107-0918	107-0918	107-0918	107-0918	107-0918	107-0918	107-0918	107-0918	107-0918	107-0918	107-0918	107-0918	107-0918	107-0918	
	107-0903-2A	107-0945 107-0903-2A																			
	107-0945	107-0945	107-0945	107-0945	107-0945	107-0945	107-0945	107-0945	107-0945	107-0945	107-0945	107-0945	107-0945	107-0945	107-0945	107-0945	107-0945	107-0945	107-0945	107-0945	
	13	13	13	13	13	13	13	13	13	13	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	
ı	-	2	-	2	-	2	-	2	-	2	က	4	ო	4	က	4	က	4	က	4	
Contact	Crimp Contact																				
	.062	.062	790	.062	.062	.062	.062	.062	.062	.062	.040	.040	.040	.040	.040	.040	.040	.040	.040	.040	
	.078	.078	290.	.065	.055	.055	.055	.055	.050	.050	960.	960.	820.	820.	.065	.065	.055	.055	.055	.055	
	.052	.052	.045	.045	.033	.033	.027	.027	.024	.024	290°	290°	.052	.052	.045	.045	.033	.033	.027	.027	
XAC, IXAC	MRAC, TMRAC, XAC, TXAC																				
	18-20-22	18-20-22	20-22-24	20-22-24	22-24-26	22-24-26	24-26-28	24-26-28	26-28-30	26-28-30	16-18-20	16-18-20	18-20-22	18-20-22	20-22-24	20-22-24	22-24-26	22-24-26	24-26-28	24-26-28	
, 7	Д	S	Д	S	Δ.	S	Δ.	S	Д	S	Ь	S	Д	S	а	S	Д	S	Δ.	S	

Continued on page RP / 85

100-09418

00-20248

100 SERIES CONTACTS

100-0917P 100-0927S

100-1024P

100-0949P

100-2016P

100-0939S 100-0943P 100-0933S

100-2016S

100-2018P

100-0945P

100-2020P

100-2020S 100-2022P

100-0947P 100-0937S

100-20228

100-09658

100-1026S

100-0963P

100-1026P

100 Series Contacts

	Gage Plug Part Number	_																	9431-15								
	Depth Block Part Number																		1 107-0965								
	Pneum Tool P Numb																		107-0961	107-0961	107-0961	107-0961	107-0961 107-0961 107-0961 107-0961	107-0961 107-0961 107-0961 107-0961	107-0961 107-0961 107-0961 107-0961 107-0961 107-0961	107-0961 107-0961 107-0961 107-0961 107-0961 107-0961	107-0961 107-0961 107-0961 107-0961 107-0961 107-0961 107-0961
e Contacts	tioner Gage Plug art Part mber Number	-1	act	act	act act act	act act act	act act act act act	act act act act act act act act act	act act act act act act	act act act act act act act	act act act act act act	act act act act act act	act	act	act	act	act	act		act		act				act	
For Loose Contacts	Hand Tool Positioner Gage Plug Part Part Part Number Number	N/A Solder		N/A Solder Contact	N/A Solder Contact N/A Solder Contact	N/A Solder Contact N/A Solder Contact N/A Solder Contact	N/A Solder Contact N/A Solder Contact N/A Solder Contact N/A Solder Contact	N/A Solder Contact	N/A Solder Contact	N/A Solder Contact	N/A Solder Contact	N/A Solder Contact	N/A Solder Contact	N/A Solder Contact	N/A Solder Contact	N/A Solder Contact	N/A Solder Contact	N/A Solder Contact	N/A Solder Conta	N/A Solder Conta	N/A Solder Conta	N/A Solder Conta	N/A Solder Conta	N/A Solder Conta	N/A Solder Conta	N/A Solder Conta	N/A Solder Conta N/A Solder C
Gage Plug	Number			-															5431-25						5431-25 5431-25 5431-25 5431-25 5431-25 5431-25	5431-25 5431-25 5431-25 5431-25 5431-25 5431-25 5431-25	5431-25 5431-25 5431-25 5431-25 5431-25 5431-14 5431-14
Hand Pneumatic	1																		3300	3300	3300	3300	3300	3300	3300 3300 3300 3300 3300 3300 3300	3300 3300 3300 3300 3300 3300 3300 330	3300 3300 3300 3300 3300 3300 3300 330
Locator Hand Tool																			107-43300								107-43302 107-43300 107-43302 107-43302 107-43302 107-43302 107-43302 107-43302 107-43302 107-43302 107-0945 107-0903-2A 107-0945 107-0903-2A 107-0945 107-0903-2A
AMPS Cont 13	13	13		13	13	13	!	13	13 13	2 2 2 2	£ £ £ £ £	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	13 13 13 13 13 13 13 13 13 13 13 13 13 1	13 13 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	13 113 113 113 113 113 113 113 113 113	13 13 13 13 13 13 13 13 13 13 13 13 13 1			 						
See Figure Number 5	v 0 v				6 1	5 1	6 1		5																		
Description of Contacts Solder Contact Solder Contact Solder Solder Solder Solder Solder Solder Solder Solder	Solder Contact Solder Contact Solder	Solder Contact Solder	Solder	Contact	Solder Contact	Solder Contact	Solder Contact	Solder	Contact	Solder Contact	Solder Contact Solder Solder Contact	Solder Contact Solder Contact Solder Solder Contact	Solder Contact Solder Contact Contact Contact Contact Contact Contact Contact	Solder Contact Solder Contact Solder Contact Solder Contact Solder Contact Contact	Solder Contact Solder Solder Contact Solder Contact Solder Contact Contact Solder Contact Solder Contact Contact Contact Contact Contact Contact Contact	Solder Contact Solder Contact Solder Contact Contact Solder Contact Solder Contact Solder Contact Solder Contact Contact Contact Contact Contact Contact Contact Contact	Solder Solder Contact Solder Contact Solder Contact Solder Contact Solder Contact Solder Contact Contact Solder Contact Contact Contact Solder Contact Conta	Solder Solder Contact Contact Contact Solder Contact	Solder Contact	Solder Solder Solder Solder Contact Contact Solder Contact Co	Solder Solder Contact Solder Solder Contact Solder Contact Solder Contact Solder Contact Solder Contact Solder Contact Contact Solder Contact	Solder Contact Solder Contact Solder Contact Solder Contact Solder Contact Contact Solder Contact Contact Contact Solder Contact Conta	Solder Contact Contac	Solder Solder Contact Solder Solder Contact Solder Contact Solder Contact Contact Solder Contact Contact Contact Solder Contact Contac	Solder Contact Conta	Solder Contact	Solder Contact
Mating Pin Diameter .062	.062	.062		.062	.062	.062	.062		.062	.062	.062	.062	.062	.062 .062 .062 .062 .062	.062 .062 .062 .062 .062 .062	.062 .062 .062 .062 .062 .062 .062	.062 .062 .062 .062 .062 .040	.062 .062 .062 .062 .062 .040 .040	.062 .062 .062 .062 .062 .040 .040	. 062 . 062 . 062 . 062 . 062 . 040 . 040 . 040 . 030		. 062 . 062 . 062 . 062 . 062 . 040 . 040 . 040 . 030 . 030	. 062 . 062 . 062 . 062 . 062 . 040 . 040 . 040 . 030 . 030			. 062 . 062 . 062 . 062 . 040 . 040 . 040 . 030 . 030 . 030 . 030 . 030 . 030	
Drawings) B .105	.105	.105	1	760.	760.	920.	.076		.065	.065	.065	.065	.065	.065 .055 .055 .055	.065 .055 .055 .055 .055	.065 .055 .055 .055 .055 .055	.065 .055 .055 .055 .055 .055	.065 .055 .055 .055 .055 .096 .096	Drawi	Drawi	Drawi	Drawi Drawi Drawi	Drawi	Drawi	Drawi	Drawi Drawi Drawi	Drawi
(See A A			C .081	C90.	290.	c .052	C .052													.045 .033 .033 .037 .027 .067 .067 .045	.045 .033 .033 .033 .027 .067 .067 .045 .045	.045 .033 .033 .037 .027 .067 .067 .045 .045 .8ee	.045 .033 .033 .027 .027 .067 .045 .045 .045 .58e .See .See .See	.045 .033 .033 .033 .027 .067 .067 .045 .045 .045 .8ee	.045 .033 .033 .033 .027 .067 .045 .045 .045 .045 .045 .045 .045 .045	.045 .033 .033 .033 .027 .067 .067 .045 .045 .045 .045 .045 .045 .045 .045	.045 .033 .033 .033 .027 .027 .045 .045 .045 .045 .045 .045 .045 .045
		XAC, TXAC	MRAC, TMRAC XAC, TXAC	MRAC, TMRAC, XAC, TXAC	MRAC, TMRAC XAC, TXAC	MRAC, TMRAC XAC, TXAC	MRAC, TMRAC	XAC, TXAC	XAC, TXAC MRAC, TMRAC, XAC, TXAC	XAC, TXAC MRAC, TMRAC XAC, TXAC MRAC, TMRAC XAC, TXAC	XAC, TXAC MRAC, TMRAC XAC, TXAC MRAC, TMRAC XAC, TXAC MRAC, TXAC MRAC, TMRAC	XAC, TXAC MRAC, TMRAC XAC, TXAC MRAC, TMRAC XAC, TXAC MRAC, TMRAC XAC, TXAC XAC, TXAC XAC, TXAC	XAC, TXAC MRAC, TMRAC XAC, TXAC MRAC, TXAC MRAC, TMRAC XAC, TXAC MRAC, TMRAC MRAC, TMRAC MRAC, TMRAC MRAC, TXAC MRAC, TXAC	XAC, TXAC MRAC, TMRAC MRAC, TMRAC XAC, TXAC MRAC, TMRAC XAC, TXAC MRAC, TXAC	XAC, TXAC MRAC, TMRAC XAC, TXAC MRAC, TXAC MRAC, TMRAC XAC, TXAC	XAG, TXAG MRAG, TMRAG MRAG, TMRAG XAC, TXAG MRAG, TMRAG MRAG, TMRAG XAC, TXAG MRAG, TMRAG XAC, TXAG MRAG, TMRAG MRAG, TXAG	XAC, TXAC MRAC, TMRAC XAC, TXAC MRAC, TXAC MRAC, TXAC MRAC, TXAC MRAC, TMRAC XAC, TXAC MRAC, TMRAC XAC, TXAC MRAC, TMRAC XAC, TXAC MRAC, TMRAC MRAC, TMRAC XAC, TXAC XAC, TXAC	XAG, TXAG MRAG, TMRAG XAG, TMRAG XAG, TMRAG XAG, TMRAG MRAG, TMRAG XAG, TXAG MRAG, TMRAG XAG, TXAG MRAG, TMRAG MRAG, TMRAG XAG, TXAG MRAG, TMRAG MRAG, TXAG	XAG, TXAG MRAG, TMRAG XAC, TXAG MRAG, TMRAG XAC, TXAG MRAG, TMRAG XAG, TXAG	MRAC, TWAC MRAC, TWAC MRAC, TWAC MRAC, TWAC MRAC, TWAC MRAC, TWAC MRAC, TMRAC XAC, TXAC	XAC, TXAC MRAC, TMRAC XAC, TXAC MRAC, TMRAC XAC, TXAC MRAC, TXAC MRAC, TMRAC XAC, TXAC XAC, TXAC MRAC, TMRAC XAC, TXAC						
Accom- modates Conductor Sizes	_		<u>چ</u>	16-18-20	16-18-20	18-20-22											20-22-24 20-22-24 22-24-26 22-24-26 24-26-28 24-26-28 16-18-20 16-18-20	20-22-24 20-22-24 20-22-24-26 22-24-26 24-26-28 16-18-20 16-18-20 20-22-24	20-22-24 20-22-24 22-24-26 24-26-28 24-26-28 16-18-20 16-18-20 20-22-24 20-22-24	-24 -24 -26 -26 -26 -26 -27 -28 -28 -29 -29 -20 -20 -20 -20 -20 -20 -20 -20 -20 -20				20-22-24 20-22-24 22-24-26 24-26-28 24-26-28 20-22-24 20-	20-22-24 20-22-24-26 22-24-26 24-26-28 24-26-28 20-22-24	20-22-24 20-22-24 22-24-26 24-26-28 24-26-28 24-26-28 20-22-24 20-	20-22-24 20-22-24-26 22-24-26 24-26-28 24-26-28 20-22-24
Cong		14-16-18	14-16-18	16-	19	==	-												 								
Contact Acc Part moc Number Conc 2,000/Reel Si		Not Available 14-16-18	Not 14-16 Available	Not Available 16-	Not Available		Not Available		_		Not Available Not Not Not Available	Not Available Available Available Not Available Not Available Not Available Available	Not Available	Available Not Available Not Available Available Not Available Not Available Not Available	Not Available Not Available Available Available Available Available Available Not Available Available Available Available Available Available Available	Not Available Available Available Available Available Not Available Not Available Not Available Available Available Available Available Available	Available	100-2520P Available 100-2520S Available 100-2522P Available 100-2524P Available 100-2524S Available 100-2524S Available 100-2616S Available 100-2620P Available 100-2620P Available 100-2620P Available 100-2620P Available 100-2620S Available	Available Not Available	Available Available Available Available Available Not Available	Available Not Available 100-08028	Available 100-0802S	Not Available Not Available 100-08025 P 100-0805 P 100-	100-25209 Available 100-2522 Available 100-2522 Available 100-2524 Available 100-2524 Available 100-2524 Available 100-2524 Available 100-2526 Available 100-26167 Available 100-26207 Available 100-26207 Available 100-26208 Available 100-40208 100-08028 100-40248 100-08058 100-40248 100-08068 100-40248 100-08068	100-2520P Not available Av	100-25205 Available 100-25205 Available 100-2522 Available 100-2524 Available 100-2524 Available 100-2524 Available 100-2516P Available 100-2616S Available 100-2610S Available 100-2620P Available 100-2620P Available 100-4020P 100-0805P 100-4024P 100-0805P 100-4024S 100-0805S 100-4028 100-0805S 100-4028 100-0805S 100-4028 100-0805S 100-4028 100-0805S	100-25209

Continued on page RP / 86

100 Series Contacts

Gage Plug Pneumatic Depth Part Tool Part Blumber Number Numbe	Gage Plug Pneumatic Denth Part Tool Part Block Part Number Number 107-0961 107-0965 107-0961 107-0965	Gage Plug Pneumatic Depth Cage Plug Part Tool Part Block Part Number Number Number 107-0961 107-0965 107-0961 107-0965 10	Gage Plug Pneumatic Depth Part Tool Part Bluck Part Number Number Number Number Number 107-0961 107-0965 1	Gage Plug Pneumatic Depth Part Tool Part Block Part Tool Part Mumber Number 107-0965 107-0	Gage Plug Pneumatic Depth Part Tool Part Block Part Number Number Number Number Number 107-0961 107-0965 107-0965 107-0965 107-0965 107-0966 107-0965 1	Gage Plup Pneumatic Depth Part Tool Part Number Number Number Number 107-0961 107-0965 1	Gage Plug Pneumatic Depth Part Tool Part Number	Gage Plup Pneumatic Depth Part Tool Part Block Part Tool Part Number Number 107-0965 107-0	Gage Plug Pneumatic Depth Part Tool Part Number Number Number Number Number 107-0961 107-0965 107-0961 107-0965 107	Gage Plug Preumatic Depth Part Tool Part Block Part Tool Part Number Number 107-0965 107-0	Gage Plug Pneumatic Depth Part Tool Part Number Number Number Number Number Number 107-0965 107-0	Gage Plup Pneumatic Depth Part Tool Part Number Number Number 107-0965	Gage Plug Pneumatic Depth Part Tool Part Number Number	Gage Plug Pneumatic Depth Part Tool Part Number Number Number 107-0965	Gage Plug Pneumatic Depth Part Tool Part Number Number 107-0965
		107-0944													
		5431-15 5431-15 5431-25 5431-25 5431-25 5431-26	5431-15 5431-15 5431-25 5431-25 5431-26 5431-26 5431-26	5431-15 5431-15 5431-25 5431-25 5431-26 5431-26 5431-26 5431-26	5431-15 5431-15 5431-25 5431-25 5431-26 5431-26 5431-26 5431-26	5431-15 5431-25 5431-25 5431-26 5431-26 5431-26 5431-26 5431-26 5431-26 5431-26	5431-15 5431-15 5431-25 5431-25 5431-26 5431-26 5431-26 5431-26 5431-26 5431-26	5431-26 5431-25 5431-26 5431-26 5431-26 5431-26 5431-26 5431-26 5431-26	5431-15 5431-15 5431-25 5431-26 5431-26 5431-26 5431-26 5431-26 5431-26 5431-26	5431-26 5431-25 5431-26 5431-26 5431-26 5431-26 5431-26 5431-26 5431-26 5431-26	5431-15 5431-25 5431-25 5431-26 5431-26 5431-26 5431-26 5431-26 5431-26	5431-26 5431-26 5431-26 5431-26 5431-26 5431-26 5431-26 5431-26 5431-26	5431-15 5431-25 5431-25 5431-26 5431-26 5431-26 5431-26 5431-26 5431-26	5431-26 5431-26 5431-26 5431-26 5431-26 5431-26 5431-26 5431-26	5431-15 5431-25 5431-25 5431-26 5431-26 5431-26 5431-26 5431-26 5431-26
107-0903-2A 107-0918 107-0903-2A 107-0918 107-43300	107-0903-2A 107-0918 107-0903-2A 107-0918 107-43300 107-43300 107-43300	107-0903-2A 107-0918 107-0903-2A 107-0918 107-43300 107-43300 107-43300 107-43300	107-0903-2A 107-0918 107-0903-2A 107-0918 107-43300 107-43300 107-43300 107-43300 107-43300	107-0903-2A 107-0918 107-0903-2A 107-0918 107-43300 107-43300 107-43300 107-43300 107-43300	107-0903-2A 107-0918 107-0903-2A 107-0918 107-43300 107-43300 107-43300 107-43300 107-43300 107-43300	107-0903-2A 107-0918 107-0903-2A 107-0918 107-43300 107-43300 107-43300 107-43300 107-43300 107-43300	107-0903-2A 107-0918 107-0903-2A 107-0918 107-43300 107-43300 107-43300 107-43300 107-43300 107-43300	107-0903-2A 107-0918 107-0903-2A 107-0918 107-43300 107-43300 107-43300 107-43300 107-43300 107-43300	107-0903-2A 107-0918 107-0903-2A 107-0918 107-43300 107-43300 107-43300 107-43300 107-43300 107-43300	107-0903-2A 107-0918 107-0903-2A 107-0918 107-43300 107-43300 107-43300 107-43300 107-43300 107-43300	107-0903-2A 107-0918 107-0903-2A 107-0918 107-43300 107-43300 107-43300 107-43300 107-43300 107-43300	107-0903-2A 107-0918 107-0903-2A 107-0918 107-43300 107-43300 107-43300 107-43300 107-43300 107-43300	107-0903-2A 107-0918 107-0903-2A 107-0918 107-43300 107-43300 107-43300 107-43300 107-43300 107-43300	107-0903-2A 107-0918 107-0903-2A 107-0918 107-43300 107-43300 107-43300 107-43300 107-43300 107-43300	107-0903-2A 107-0918 107-0903-2A 107-0918 107-43300 107-43300 107-43300 107-43300 107-43300 107-43300
	- ` ` ` - - - - - - 														
	Cri.	1 1 1													
See Drawing		See Drawing	See Drawing See Drawing See Drawing	See Drawing See Drawing See Drawing See Drawing	See Drawing See Drawing See Drawing See Drawing See Drawing	See Drawing See Drawing See Drawing See Drawing See Drawing See Drawing	See Drawing See Drawing See Drawing See Drawing See Drawing See Drawing Not Applicable	See Drawing See Drawing See Drawing See Drawing See Drawing Not Applicable Not Applicable	See Drawing See Drawing See Drawing See Drawing See Drawing See Drawing Not Applicable Not Applicable	See Drawing See Drawing See Drawing See Drawing See Drawing Not Applicable Not Applicable Not Applicable Not Applicable	See Drawing See Drawing See Drawing See Drawing See Drawing Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable	See Drawing See Drawing See Drawing See Drawing See Drawing See Drawing Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable	See Drawing See Drawing See Drawing See Drawing See Drawing Not Applicable	See Drawing See Drawing See Drawing See Drawing See Drawing See Drawing Not Applicable	See Drawing See Drawing See Drawing See Drawing See Drawing Not Applicable
SKEC, 42 Series			MRAC, TMRAC, XAC, TXAC MRAC, TMRAC, XAC, TXAC 9 MRAC, TMRAC, XAC, TXAC	MRAC, TWRAC, XAC, TXAC MRAC, TWRAC, XAC, TXAC 9 MRAC, TWRAC, XAC, TXAC 9 MRAC, TWRAC	MRAC, TMRAC, XAC, TXAC MRAC, TYAC XAC, TYAC 9 MRAC, TMRAC, XAC, TYAC 9 MRAC, TMRAC, XAC, TYAC 8 MRAC, TMRAC, XAC, TXAC	MRAC, TWRAC, XAC, TXAC MRAC, TWRAC, XAC, TXAC 9 MRAC, TMRAC, XAC, TXAC XAC, TXAC XAC, TXAC XAC, TXAC 8 MRAC, TMRAC, XAC, TXAC 8 MRAC, TMRAC, XAC, TXAC	MRAC, TMRAC, XAC, TXAC MRAC, TMRAC, XAC, TXAC 9 MRAC, TMRAC, XAC, TYAC 7 MRAC, TMRAC, XAC, TYAC 8 MRAC, TMRAC, XAC, TXAC MRAC, TMRAC, XAC, TXAC MRAC, TMRAC, MRAC	MRAC, TWRAC, XAC, TXAC MRAC, TWRAC, MRAC, TWRAC, MRAC, TWRAC, XAC, TXAC MRAC, TWRAC, XAC, TXAC MRAC, TWRAC, MAC, TYAC MRAC, TWRAC, MAC, TYAC MRAC, TWRAC MRAC, TWRAC	MRAC, TMRAC, XAC, TXAC MRAC, TMRAC, XAC, TXAC 9 MRAC, TMRAC, XAC, TXAC 9 MRAC, TMRAC, XAC, TYAC 8 MRAC, TMRAC, XAC, TYAC MRAC, TMRAC, XAC, TYAC MRAC, TMRAC, MRAC, TMRAC, MRAC, TMRAC, SAC, TYAC	MRAC, TWRAC, XAC, TXAC MRAC, TWRAC, MRAC, TWRAC, MRAC, TWRAC, XAC, TXAC MRAC, TWRAC, XAC, TXAC MRAC, TWRAC, MAC, TYAC MRAC, TWRAC, MRAC, TWRAC MRAC, TWRAC MRAC, TWRAC SAC, TXAC MRAC, TWRAC SAC, TXAC MRAC, TWRAC SREC	MRAC, TWRAC, XAC, TXAC MRAC, TWRAC, XAC, TXAC 9 MRAC, TWRAC, XAC, TXAC 7 MRAC, TWRAC, XAC, TYAC 8 MRAC, TMRAC, XAC, TYAC MARAC, TMRAC, MAC, TMRAC, MAC, TMRAC, MAC, TMRAC, MAC, TMRAC, MRAC, TMRAC, MRAC, TMRAC, MRAC, TMRAC, MRAC, TMRAC MRAC, TMRAC MRAC, TMRAC MRAC, TMRAC MRAC, TMRAC SREC	MRAC, TWRAC, XAG, TXAC MRAC, TWAC MRAC, TWRAC, MRAC, TWRAC, XAG, TXAC MRAC, TMRAC, MRAC, TMRAC, MRAC, TMRAC, MRAC, TMRAC, MRAC, TMRAC, MRAC, TMRAC	MRAC, TWRAC, MRAC, TXAC MRAC, TWRAC, MRAC, TWRAC, SAC, TXAC MRAC, TWRAC, XAC, TXAC MRAC, TWRAC, MRAC, TWRAC, MRAC, TWRAC	MRAC, TWAC, MARAC, TWAC, MRAC, TWAC, MRAC, TWAC, MRAC, TWAC, MRAC, TWAC, MRAC, TWRAC, MRAC, TWRAC, MRAC, TMRAC, MRAC, TMRAC, MRAC, TMRAC	MRAC, TWRAC, MRAC, TWARG, MRAC, TWRAC, MRAC, TWRAC
28-30			<u> </u>												
Available		tolilab	Not ailab ailab Not ailab	Not Not Not ailab ailab ailab	Not Not Not Aailab Not Aailab Not Aailab	Not Aailab	Not	Not Nailab Not Nat Nat Nat Nat Nat Nat Nat Nat Nat Na	Not	Not	Not Availab Av	Not Available Available Available Available Not Available Available Not Available Available Not Available Available Available Available Available Available Not Available Available Not	Not Available Not Not Available Not Not Available Not	Not Available Not Not Available Not Availabl	Not Available

10-S = Military Contacts

Continued on page RP / 87

MIL-C-39029 Contacts

MIL-C-39	MIL-C-39029 CONTACTS	CTS															
M39029	Winchester	Accom- modates	Used In	Diameter	eter	Matino	Description	See	AMPS	MIL Spec	Winchester			Insertion	Insertion		Removal
Part Number	Part Number	Conductor Sizes	Connector Series	A	9	Pin Dia.	of Contacts	Figure Number	Cont	Crimp Tool	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	ဗ	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	107-1015		107R1001
M39029/34-272	100R-1020P95	20-22-24	M28748	.045	290.	.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	M81969/20-01	107R1001
M39029/34-273	100B-1016P95	16-18-20	M28748	290.	.092	.062	Crimp Contact	-	13	M22520/1-01	M22520/1-01 107-0903-2A	M22520/1-03	107-0945	M81969/18-01	107-1015	M81969/20-01	107R1001
M39029/34-440	100-202861-50	22-24-26	M28748	.035	.056	.030	Crimp Contact	29	5	M22520/2-01	107-43300	Buchn.614412	107-0611	M81969/18-02	172857	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	107-1015		107R1001
M39029/35-275	100R-51020S95	20-22-24	M28748	.045	290.	.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	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	M22520/1-01 107-0903-2A	M22520/1-03	107-0945	M81969/18-01	107-1015	M81969/20-01	107R1001
M39029/35-441	100-202862-50	22-24-26	M28748	.035	.056	.030	Crimp Contact	30	5	M22520/2-01	107-43300	Buchn.614412		M81969/18-02	172857	M81969/20-02	RT2855

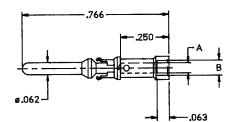


Figure 1

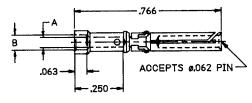


Figure 2

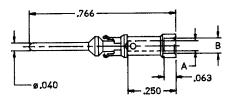


Figure 3

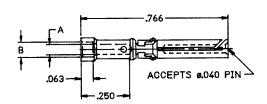


Figure 4

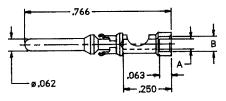


Figure 5

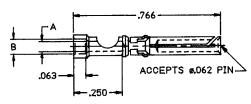


Figure 6

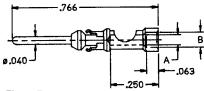
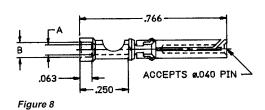
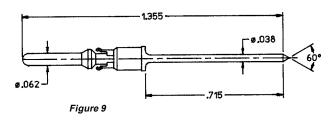


Figure 7





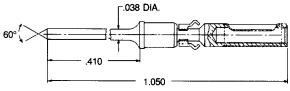
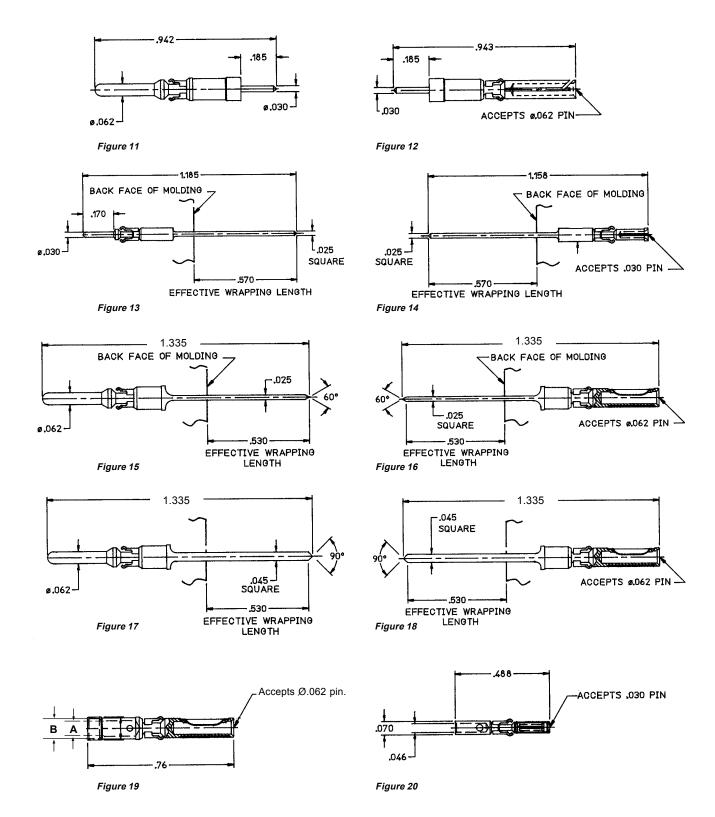


Figure 10



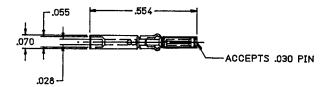


Figure 21

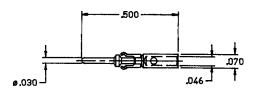


Figure 23

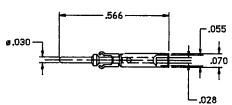


Figure 25

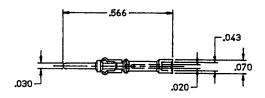
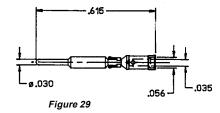


Figure 27



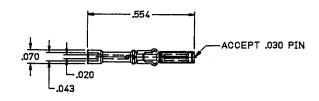


Figure 22

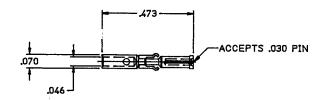


Figure 24

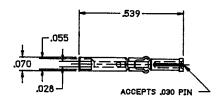


Figure 26

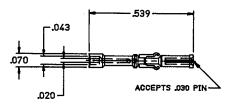


Figure 28

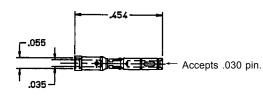


Figure 30



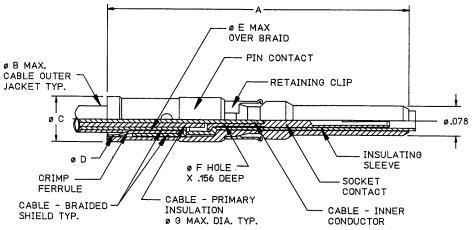
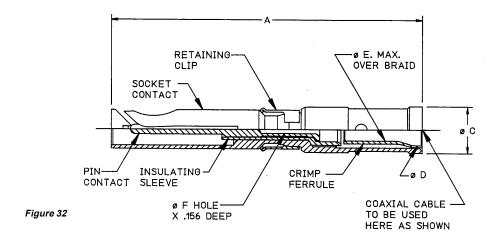


Figure 31



Ordering Information

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

Crimping Tools and Accessories

Pneumatic And Hand Crimping Tools

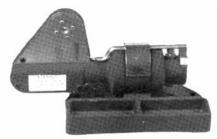


Automatic Feed Crimping Tool 600/1200 Crimps Per Hour

Catalog Number 107-0961

Air operated tool provides for a large capacity reel and foot valve control. Crimp depths are accurately controlled by interchangeable snap-in depth blocks when the tool is bench mounted. Leaves operator's hands free. (Does

not include reel or foot valve control.) Includes crimp depth blocks. Automatic Crimp Tool made up of bench mount (107-0962) and crimp t ool (107-0960). Used to crimp 100-10**P/S, 100-20**P/S, 100-510**S Series.



Pneumatic Hand Crimping Tool 400 Crimps Per Hour

Catalog Number 107-0918

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



Hand Operated Crimping Tool 200/300 Crimps Per Hour

Catalog Number 107-0903-2A (Mil-T-22520 Class II Equivalent)
Gage plugs should be ordered separately. Locator 107-0945 and Spanner wrench 107-1102 supplied with tool.



Miniature Hand Operated Crimping Tool

Catalog Number 107-43300

This miniature version of the MS crimping tool is suited for the smaller crimp contacts such as the SREC series. It is only 7 ½ inches long and weighs 10 ½ ounces. Positioners are ordered separately.



Miniature Hand Operated Crimping Tool

Catalog Number 107-0625

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

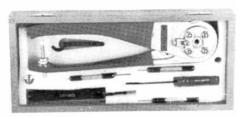


Hand Operated Crimping Tool 200/500 Crimps Per Hour

Catalog Number 107-0970

MS-3191-2 (Mil-T-22520 Class I)

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



Tool Kit

Catalog Number 107K4

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



107 Series

Guide Set Tool

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



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

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



Hex Wrench

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

Catalog Number 107-0703 for MRE / MRA / MRAC (hex size 3/16)

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



Locators

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



Removable Contact Insertion Tools

Catalog Number 107-1011 for SREC

Catalog Number 107-1015 for MRAC / STD & Shielded



Contact Pin Straightener

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





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 Removal Tools

Catalog Number 107-1005 for MRAC / STD & Shielded

Catalog Number 107-1012 for SREC

Catalog Number 107R1001 for MRAC / STD



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