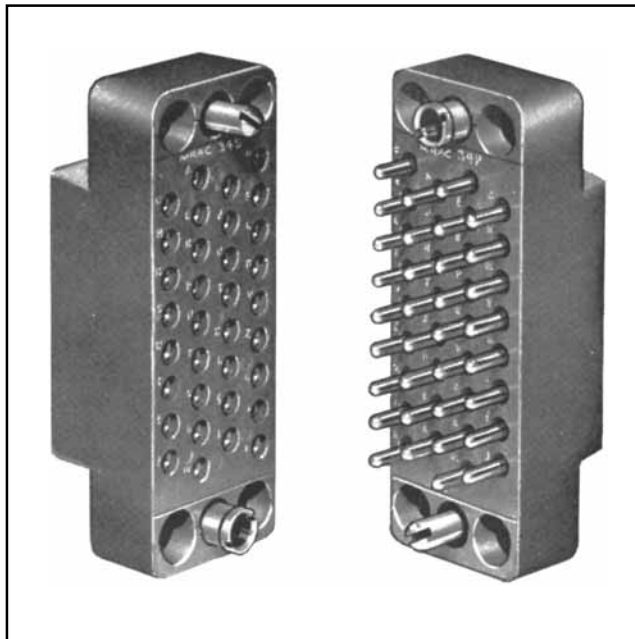


MRAC Series

Miniature Rectangular, Removable Contacts

FEATURES

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



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

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

SPECIFICATIONS

Current Rating: Up to 13 amps

No. of Contacts: 9, 14, 18, 20, 26, 34, 41, 42, 50, 66, 75, 104

Contacts: Must be ordered separately. Select from crimp, solder, dip solder, shielded or Wire-Wrap termination contacts. See 100 Series contact section.

Contact Identification: Standard contact identification is alphabetical except for MRAC66 and 75 which have numerical identification. To order numerical identification on MRAC 34, 50 or 104, specify MNAC**P or S.

Electrical Data: Meets high potential 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

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Rack & Panel

MRAC Series

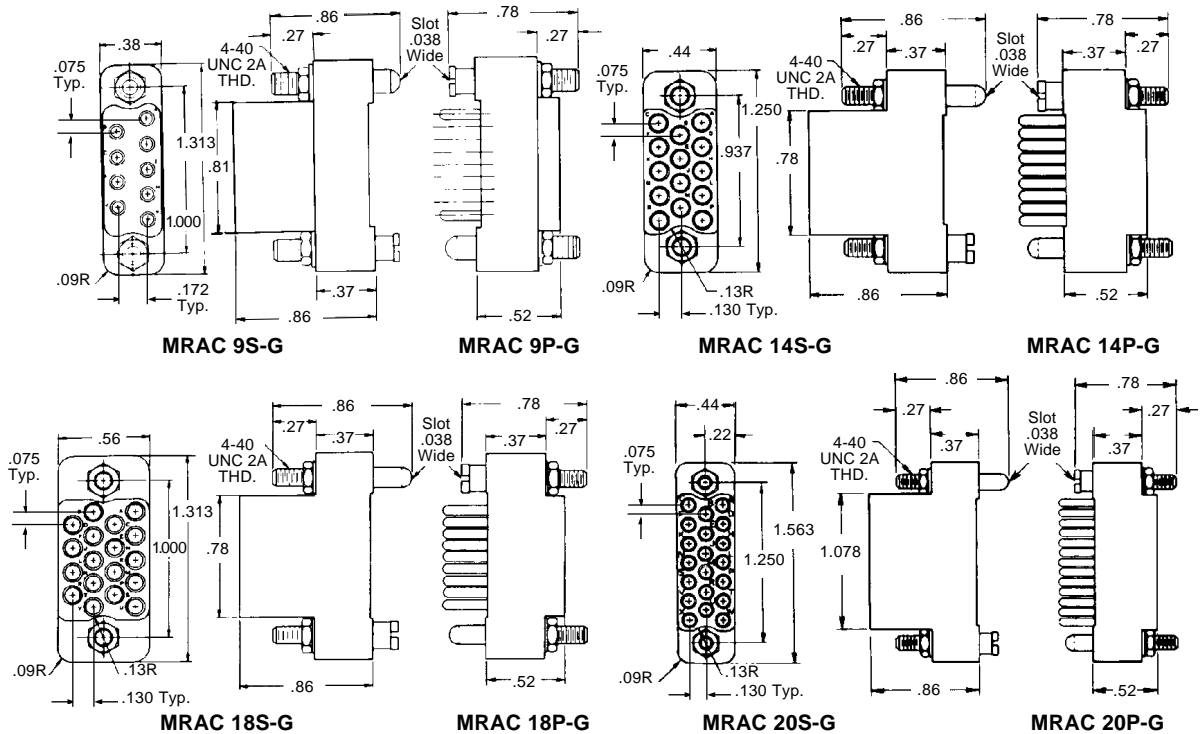
Miniature Rectangular, Removable Contacts

OUTLINE

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

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

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







PHYSICAL DATA

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

GUIDE SOCKETS

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

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

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* For passivated stainless steel add SS suffix

100 SERIES CONTACTS

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

100-S = Military Contacts

OUTLINE

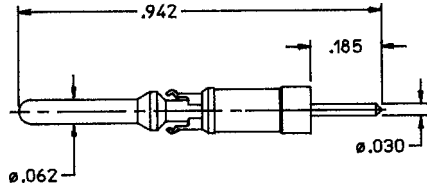


Figure 11

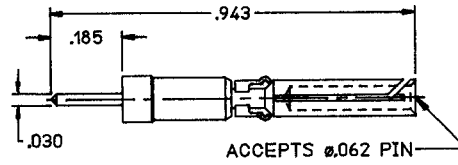


Figure 12

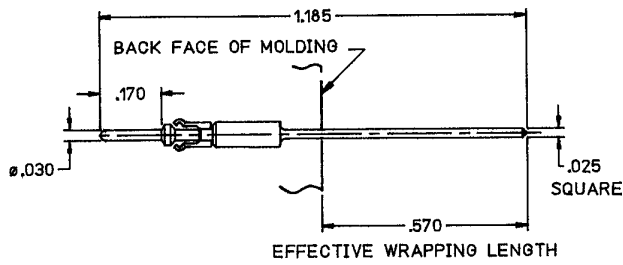


Figure 13

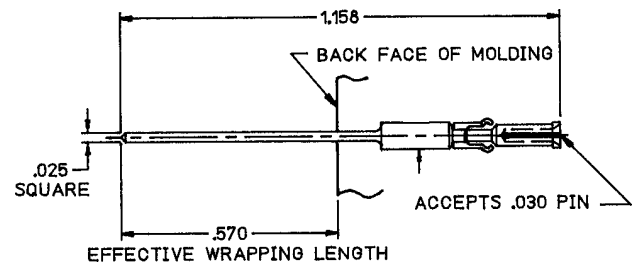


Figure 14

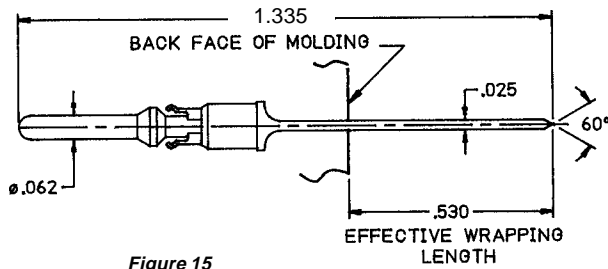


Figure 15

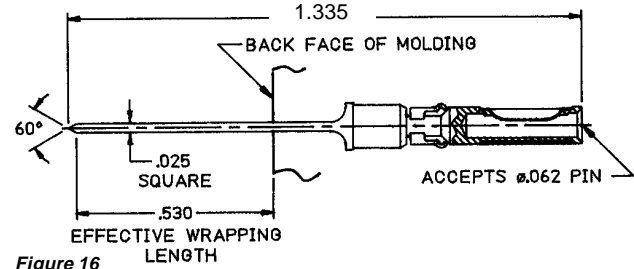


Figure 16

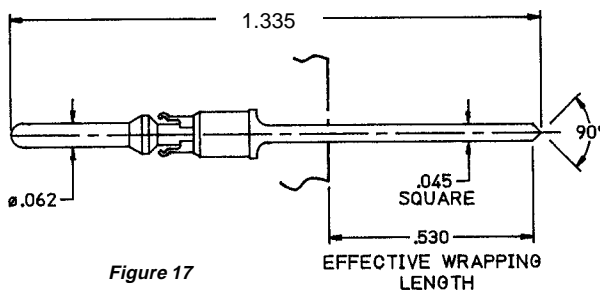


Figure 17

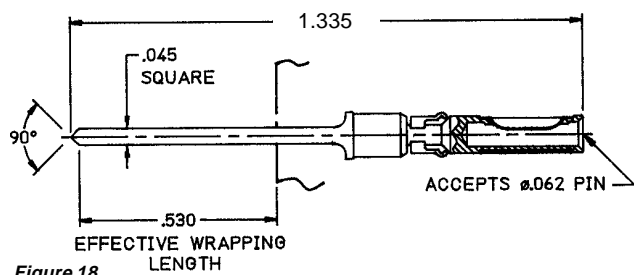


Figure 18

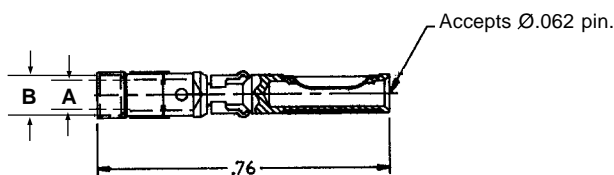


Figure 19

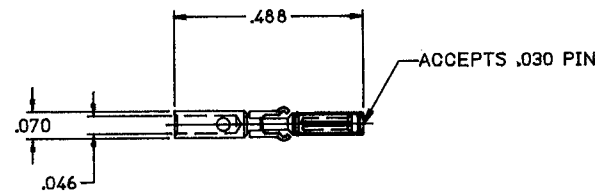


Figure 20

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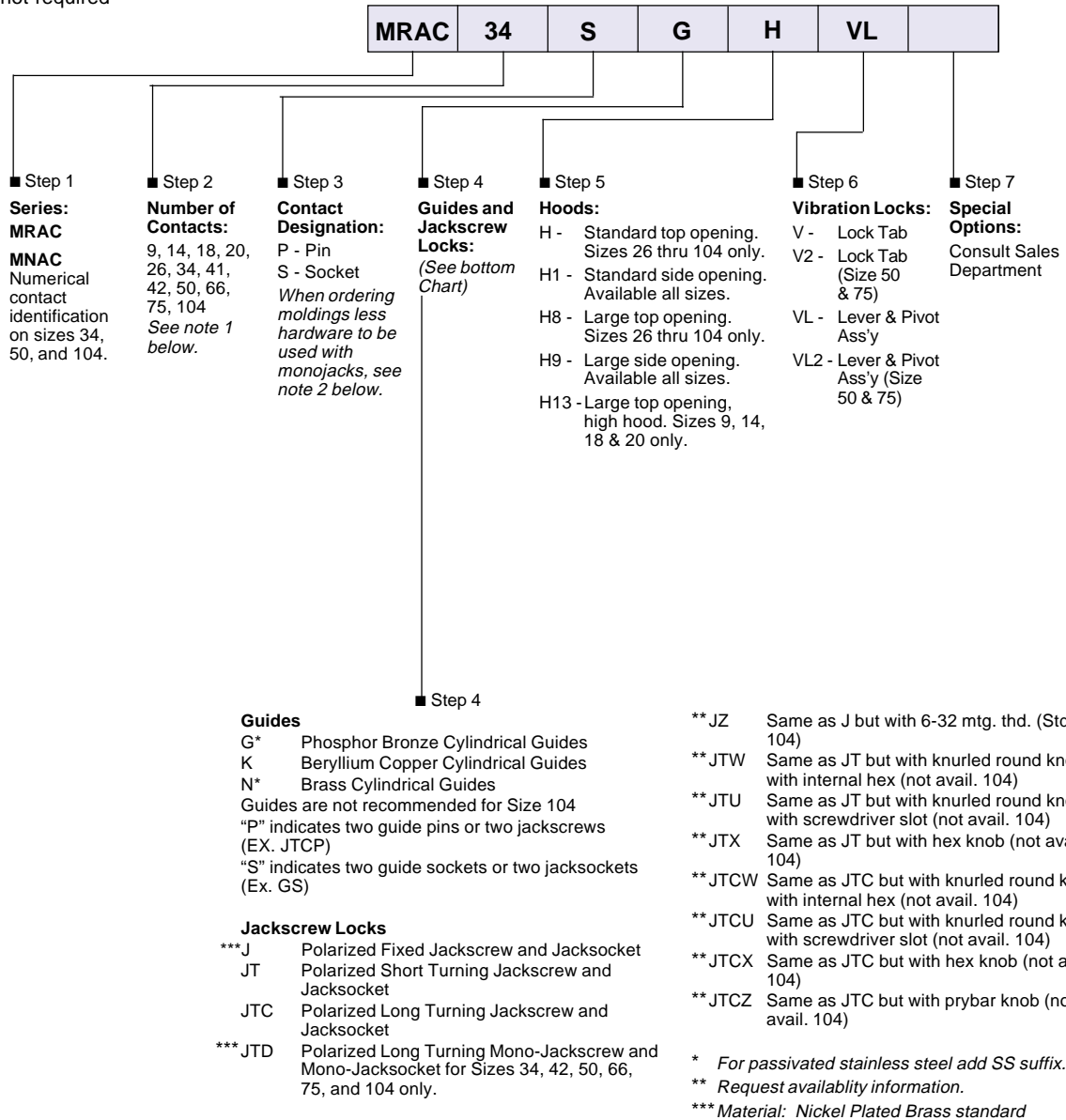
Rack & Panel

MRAC Series

Miniature Rectangular, Removable Contacts

ORDERING INFORMATION

Omit steps not required



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

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

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

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

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