

# MRAC Series Miniature Rectangular Connectors

Compact, lightweight and capable of withstanding unusually high currents (13 amps) and heavy voltages (2000 VAC, sea level) relative to their miniature size, MRAC miniature rack & panel connectors utilize removable contacts to save time and effort and allow the designer greater flexibility in circuitry choices. Pin and socket contact types available (and ordered separately) are: MRAC Series 100 crimp removable contacts; dip solder removable contacts; solder cup removable contacts . . . and MRAC removable contacts with .025" and .045" wire wrap tails and stabilizing bushings. Insulator moldings are diallyl phthalate, standard. A variety of options include polarized and fixed jackscrews/jacksockets, hoods, vibration locks, guides and more. MRAC Series connectors meet the performance requirements of MIL-C-28748. They are available off-the-shelf from Authorized Winchester Electronics Distributors.

## Ordering Guide MRAC Moldings

MRAC	34	S	G	H	VL
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MRAC Series Designation

Number of Contacts  
9, 14, 18, 20, 26, 34, 41,  
42, 50, 66, 75, 104

\*Contact Designation—  
P-Pin Molding  
S-Socket Molding

\*Contacts must be ordered separately. See Tables below.

Guides and Jackscrew Locks

Guides  
G-Phosphor Bronze Cylindrical Guides  
K-Beryllium Copper Cylindrical Guides  
N-Brass Cylindrical Guides  
Add "SS" for Stainless Steel Guides (Ex. "NSS")  
Guides are not recommended for Size 104  
"P" indicates two Guide Pins or two Jackscrews. (Ex. JTCP)  
"S" indicates two Guide Sockets or two Jacksockets. (Ex. GS).

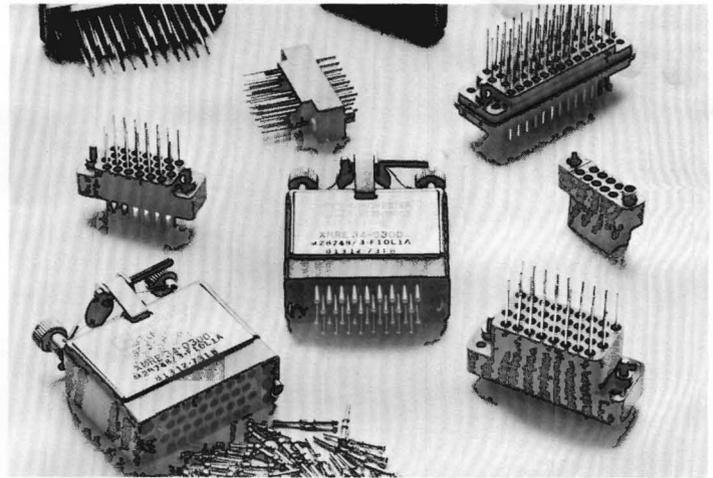
Jackscrew Locks

J-Polarized Fixed Jackscrew and Jacksocket  
JT-Polarized Short Turning Jackscrew and Jacksocket  
JTC-Polarized Long Turning Jackscrew and Jacksocket  
JTD-Polarized Long Turning Mono-jackscrew and Mono-jacksocket for Sizes 34, 42, 50, 66, 75 and 104 only.  
JZ-Same as J but with 6-32 mtg. thd. (std. on 104)

Hoods

H-Standard Top Opening Available in 26, 34, 41, 42, 66, 75, and 104 sizes only.  
H1-Standard Side Opening. Available in all sizes.  
H8-Large Top Opening. Available in 26, 34, 42, 50 and 75 sizes only.  
H9-Large Side Opening Available in all sizes.  
H13-Large Top Opening High Hood. Available in 9, 14, 18 and 20 sizes only.

Vibration Locks  
V-Lock Tab  
V2-Lock Tab (sizes 50, 75)  
VL-Lever & Pivot Assembly  
VL2-Lever & Pivot Assembly (sizes 50, 75)



## MRAC 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, or Wire-Wrap\* termination contacts.

**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-28748C, para. 3.6.3. The dielectric withstanding voltage is one minute electrification at 2000 VAC (sea level).

**Dielectric:** Standard material is diallyl phthalate, per MIL-M-14, SDG-F, color gray.

**Qualification:** MIL-C-28748

**Polarization:** Gold plated guides provide positive polarization. Polarized jackscrews of passivated stainless steel with anodized aluminum knobs are available.

**Hoods:** Anodized aluminum. May be applied to either plug or receptacle. Both top and side opening hoods available.

MRAC CRIMP REMOVABLE CONTACTS

CONFIGURATION	MAXIMUM STRANDED WIRE SIZE	PIN CATALOG NO.	SOCKET CATALOG NO.
13 amp contacts	14	100-1014P	100-1014S
13 amp contacts	16	100-1016P	100-1016S
13 amp contacts	20	100-1020P	100-1020S
13 amp contacts	24	100-1024P	100-1024S
7.5 amp contacts	16	100-2016P	100-2016S
7.5 amp contacts	20	100-2020P	100-2020S
7.5 amp contacts	24	100-2024P	100-2024S

MRAC WIRE WRAP REMOVABLE CONTACTS

CONFIGURATION	PIN CATALOG NO.	SOCKET CATALOG NO.
Wire Wrap Termination	8114	8113
Wire Wrap Termination with Stabilizing Bushing	8114SB	8113SB

\*Wire Wrap® is a registered trademark of Gardner-Denver.