

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

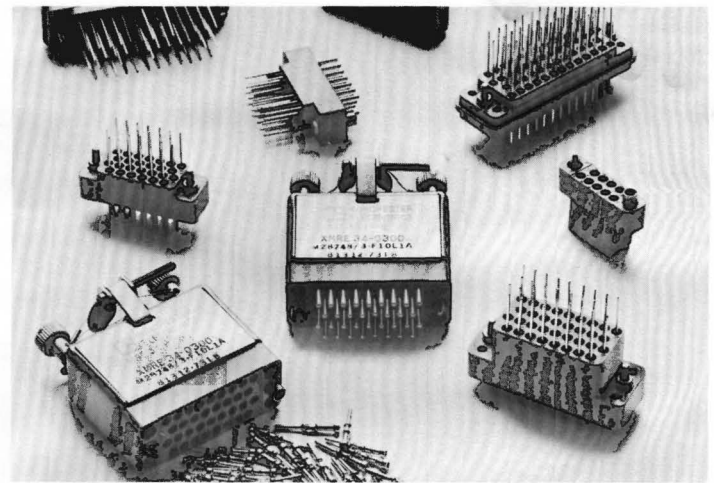
"P" indicates two Guide Pins or
two Jackscrews. (Ex. JTCP)
"S" indicates two Guide
Sockets or two Jacksockets.
(Ex. GS).

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)

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

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.



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.