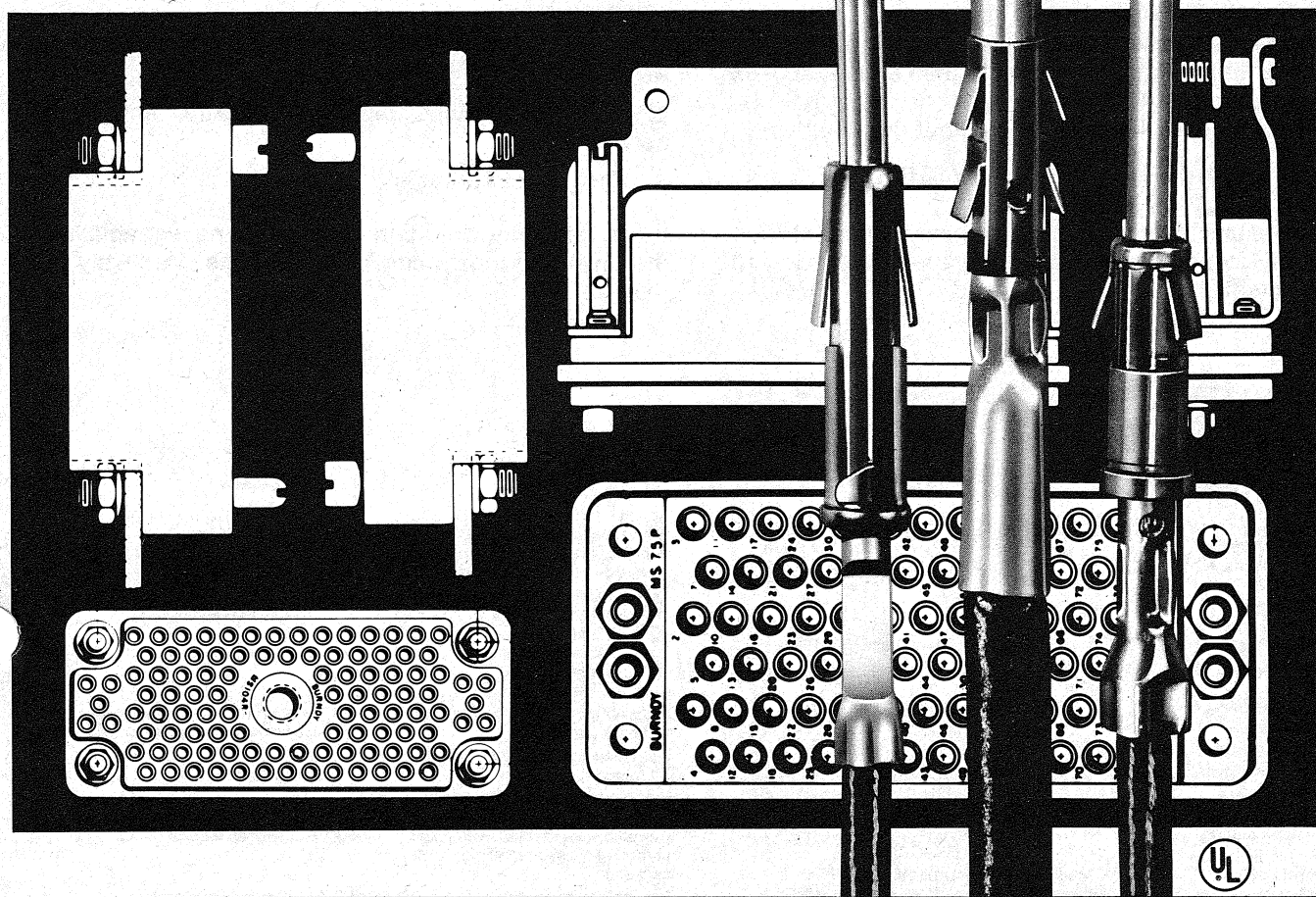


Rectangular Connectors



RACK & PANEL

The Burndy HYFEN Series of Multi-Contact Rectangular Connectors offers an extremely reliable, rugged, and versatile system in which any of the TRIM TRIO family of contacts can be used.

HYFEN Connectors, available in ten sizes from 14 to 152 positions, are supplied pre-assembled with a choice of accessories. Contacts are supplied separately.

The range of accessories available include hoods, strain relief clamps, guide pins, jack screws, and pin protection skirts. These options and a variety of methods for discriminating between similar connectors, in addition to pin and socket contacts that can be interchanged and intermixed in both plug and receptacle assemblies to make the HYFEN series a truly versatile system.

The performance characteristics of the HYFEN Connectors are in conformance with the applicable requirements of MIL-C-28748.

HYFEN CONNECTORS — A SYSTEM WITH BUILT-IN ECONOMY

Connectors are supplied pre-assembled to your requirements saving you production assembly time and the associated problems of component handling, scheduling, and inventory.

Connectors and TRIM TRIO Contacts offer cost savings in many areas —

The comprehensive range of contact installation tooling available enables you to select the type most efficient for your production requirements.

The inherent reliability of crimp terminations enables semi-skilled operators to be used and minimizes quality assurance costs.

The extensive range of contacts available allows you to make the choice of the most cost-effective contact for your particular application.

Once tooled for TRIM TRIO Contacts, all other con-

nectors in the TRIM TRIO Interconnection System can be used for other applications without the need for additional tooling costs.

HYFEN CONNECTORS — A SYSTEM WITH BUILT-IN RELIABILITY

HYFEN Connectors and TRIM TRIO Contacts have proven their reliability over more than a decade of extensive, trouble-free use in military, industrial, and commercial applications throughout the world.

HYFEN CONNECTORS — A SYSTEM WITH BUILT-IN VERSATILITY

The options in accessories enables a connector assembly to be produced to cover practically any requirement.

The choices available in TRIM TRIO Contacts can provide an integrated connector system suitable for most signal and power applications.

Discrimination of connector assemblies can be achieved by:

- a. Polarization of protection skirts
- b. Position of guide pins and sockets and jack screws
- c. Position of contacts

Such flexibility provides discriminating capabilities that even the most complex of systems is unlikely to exhaust.

Performance Characteristics and Materials

Performance Characteristics MS-M, MSD-M, MSB-M

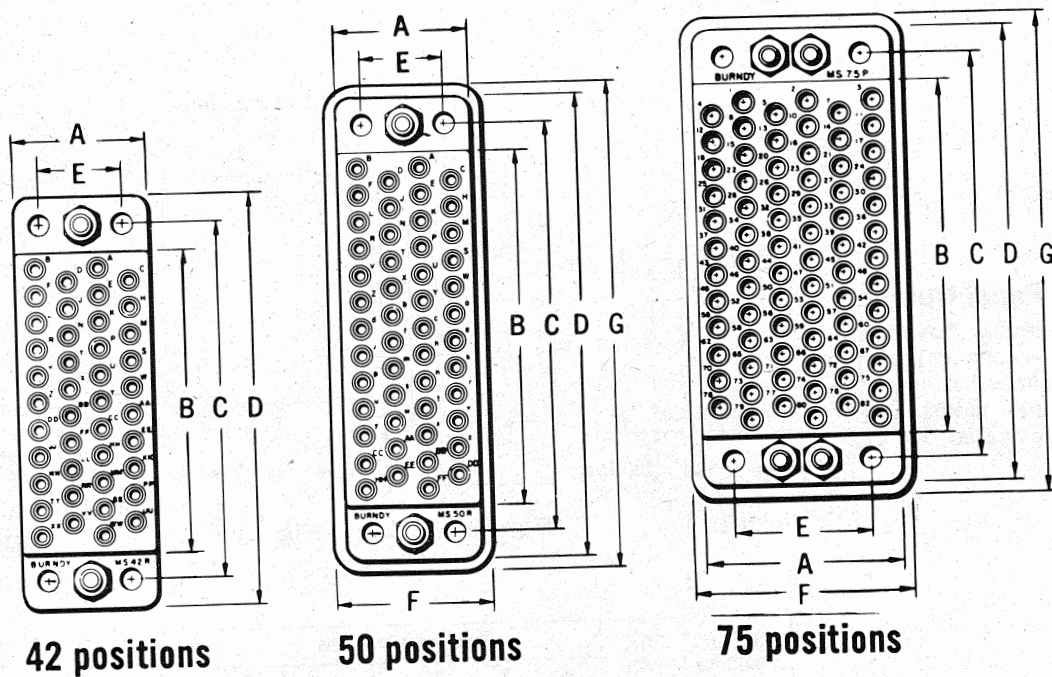
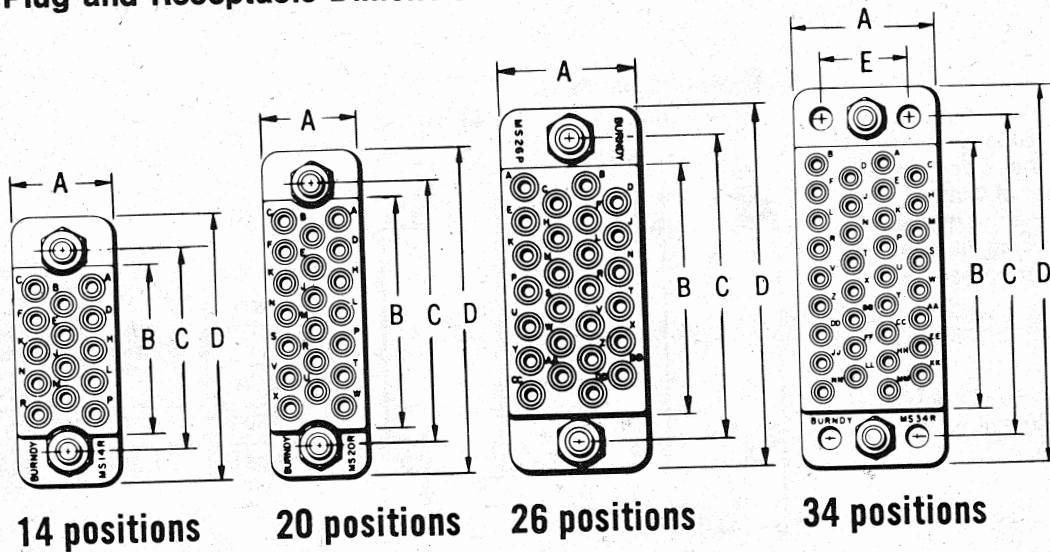
Characteristics	Performance
Contact Rating (Per MIL-W-5088)	Machined 13 Amperes Formed Two Piece 13 Amperes One Piece 5 Amperes
Operating Voltage	750 volts AC 60 HZ
Operating Temperature	MS-M + MSD-M -55° to + 125° C MSB-M -55° to + 85° C
Contact Voltage Drop (Max.)	Machined 23 Millivolts Formed Two Piece/One Piece 25 Millivolts
Insulation Resistance (Min.)	5000 Megohms minimum at 500 VDC
Test Potential (1 min. duration)	2000 volts AC 60 HZ
Contact Retention in Block (Min.)	25 lbs. (machined contacts) 15 lbs. (formed contacts) after 10 insertions and withdrawals
Connector Mating Forces (Max.)	per MIL-C-28748
Crimp Joint Characteristics	Machined contacts per MIL-STD-202, method 106; formed 240 hours at 40° C, 90-95% R.H.
Corrosion Resistance	Salt spray per MIL-STD 202 Method 101
Moisture Resistance	Machined contacts per MIL-STD-202, method 106; formed, 240 hours at 40° C, 90-95% R.H.
Vibration Resistance	per MIL-STD-202, Method 204
Shock	per MIL-STD-202, Method 207
Durability	500 cycles mating and unmating
Flamability	per UL 94V-0
Subminiature coaxial contacts	
Isolation at 30 MHz	140 db
V.S.W.R. for RG174/U, 50 Ohm cable at 510 MHz	1.12
at 2300 MHz	1.30
Operating Temperature in mated condition	-55° C to + 125° C -67° F to + 257° F
Contact Retention in Connector Body (Contact retention after 5 cycles of insertion and extraction)	15 lbs. Minimum

Characteristics	Performance
Contact Voltage Drop (When measured on mated contacts from the wire or braid 1/4" beyond the hysing, one (1) ampere current)	30 MV. Maximum
Contact Withdrawal Forces Inner Socket using pin (.024" Diameter)	1/2 ounce Minimum
Outer Socket using pin (.073" Diameter)	1/2 ounce Minimum
Dielectric Withstanding Voltage (Applied for 1 minute between inner and outer contacts)	750 Volts AC RMS (Multi-piece) 450 Volts AC RMS (Monocrimp)
Insulation Resistance of Inner Bushings (Per MIL-STD-202B Method 302 Test Cond. B)	1,000 Megohms Min.
Durability (250 cycles mating and unmating of assembled pins and sockets)	Meets Voltage Drop requirements
Crimp Requirements	(Meets MIL-T-7928 for tensile and electrical tests on inner conductor) 8 to 12 lbs. Minimum on the braid depending upon type of coax wire used.
Salt Spray 48 Hours	Contacts show no evidence of corrosion and pass withdrawal requirements
Shock (One shock of 50g. intensity in each of three mutually perpendicular directions)	Contact shows no evidence of damage
Materials	
Item	Material
MS-M Blocks	Glass-filled Phenolic per MIL-M-14F, type MFH
MSD-M Blocks	Diallyl Phthalate per MIL-M-19833
MSB-M Blocks	Glass-filled Phenolic per MIL-M-14F Plated tin over nickel
Guide pins and sockets	Brass-ASTM B1.6 (with accessories Nickel plated Stainless Steel #303)
Keyed jacks and Rotating jacks	Stainless Steel #303

14-75 Place Blocks

MS-M, MSD-M, MSB-M

Plug and Receptacle Dimensions

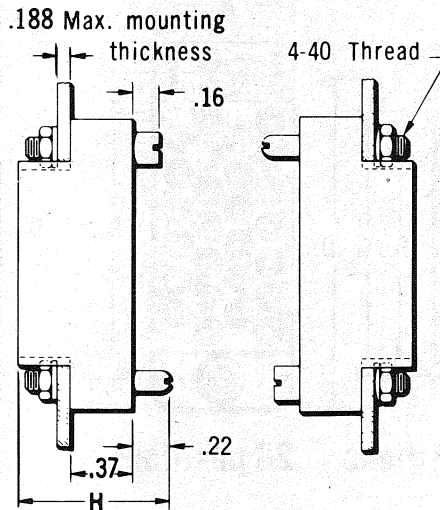


No. of Positions	Dimensions in Inches						
	A	B	C	D	E	F	G
14	.46	.79	.937	1.25	—	—	—
20	.46	1.10	1.250	1.56	—	—	—
26	.59	1.07	1.312	1.62	—	—	—
34	.75	1.41	1.686	2.00	.468	—	—
42	.75	1.69	1.990	2.31	.468	—	—
50	.75	2.00	2.281	2.59	.468	.87	2.72
75	1.11	2.00	2.281	2.59	.764	1.23	2.72

14-75 Place Blocks Type MS-M, MSD-M, MSB-M

Block Size — Blocks of all 3 materials have the same dimensions. The number of contact positions given below must be used to complete the catalog numbers in the Ordering Chart on page 5.

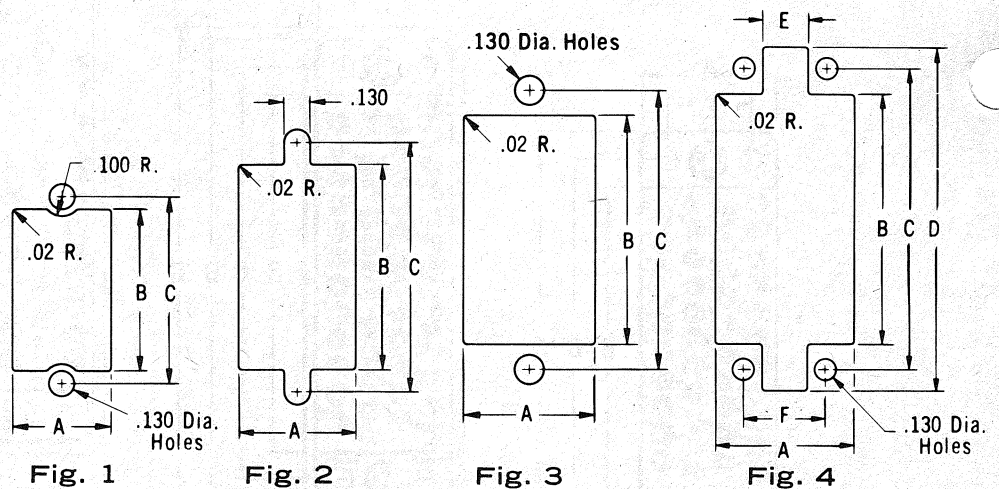
NOTE: Mounting hardware torque requirement—2-4 in.-lbs.



Block Family	Max. "H" In.	
	With Jackscrews	With Guide Pin & Socket
MS-M	1.13	1.10
MSD-M	1.13	1.10
MSB-M	1.13	1.10

Panel Cutouts

All 3 block materials have the same cutout dimensions for blocks with the same number of contact positions. Alternate methods of mounting, are indicated in the table.



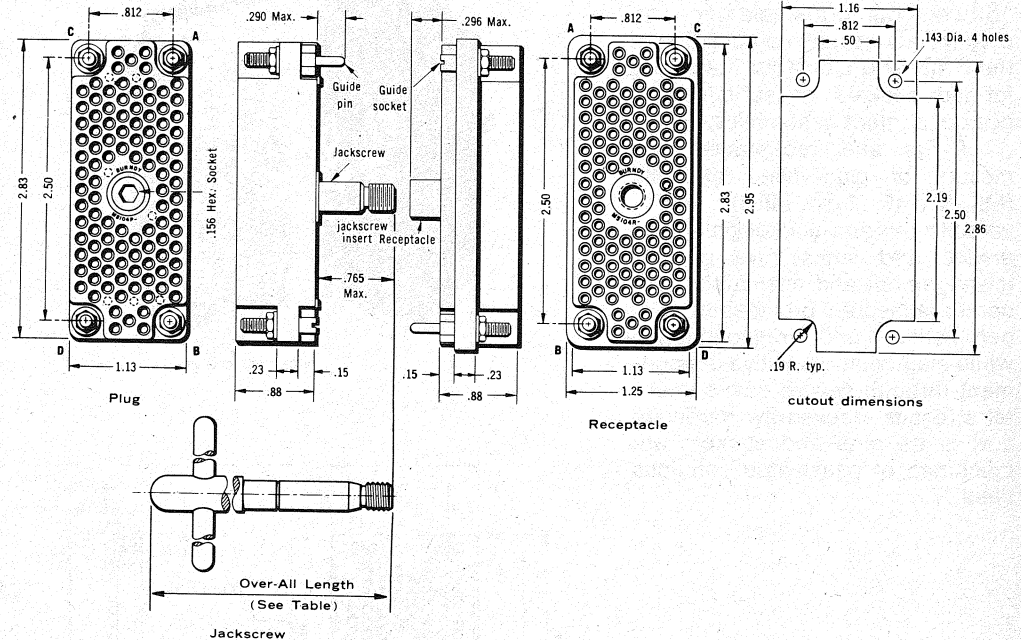
No. of Positions	Fig. No.	Dimensions in Inches					
		A	B	C	D	E	F
14	1 or 2	.49	.82	.937	—	—	—
20	1 or 2	.49	1.13	1.250	—	—	—
26	2 or 3	.62	1.11	1.312	—	—	—
34	4	.78	1.44	1.686	1.94	.25	.468
42	4	.78	1.72	1.990	2.24	.25	.468
50	4	.78	2.03	2.281	2.53	.25	.468
75	4	1.14	2.03	2.281	2.53	.56	.764

104 Position Block

This connector enables the user to accommodate 104 contacts in a single unit. These contacts may be any combination of subminiature coaxial contacts and #16 machined and formed contacts.

The plugs and receptacles are molded of diallyl phthalate per MIL-M-14, type SDG. The jackscrews and related hardware are machined of non-magnetic, passivated stainless steel. The molded in mounting ferrules in both the plug and receptacle are brass, cadmium plated.

Type MSD104-M



Performance Characteristics

Contact rating *

Operating voltage 750 volts AC 60 cycles

Operating temperature — 55°C to +125°C

Contact voltage drop (Max.) 23 millivolts machined — 25 millivolts formed

Insulation resistance 5000 megohms minimum

Test potential (1 Min. duration) 2000 volts AC 60 cycles

Contact retention in panel (Min.) 25 lbs. machined, 15 lbs. formed after 10 insertions and withdrawals

Crimp joint characteristics machined meet requirements of MIL-C-28748 — formed, MIL-T-7928

Corrosion salt spray per MIL-STD-202 Method 101

Moisture resistance machined per MIL-STD-202 Method 106 — formed 240 hours at 40°C, 90-95% RH

Vibration resistance per MIL-STD-202 Method 204

Shock per MIL-STD-202 Method 207

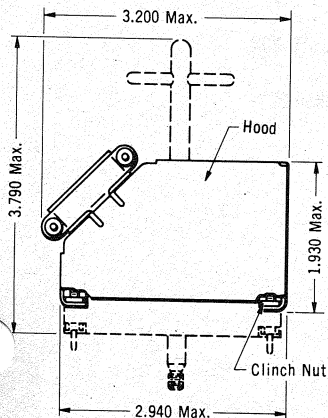
*Ref. Performance Characteristics page 2

Ordering Chart for MSD104-M

MSD104PM — (Plug) Catalog Number	Orientation of Guide Pins	Type of Jackscrew	Overall Length of Winged Jackscrew	MSD104RM — (Receptacle) Catalog Number
MSD104PM-401	None	Hex-Socket	—	MSD104RM-402
MSD104PM-410	None	Winged	4.520 max.	MSD104RM-402
MSD104PM-415	A, D	Hex-Socket	—	MSD104RM-416
MSD104PM-487	A, B, C, D	Winged	3.020 max.	MSD104RM-489
MSD104PM-488	A, B, C, D	Winged	3.520 max.	MSD104RM-489
MSD104PM-494	A, B, C, D	Winged	4.520 max.	MSD104RM-489

Type MSH104M-1

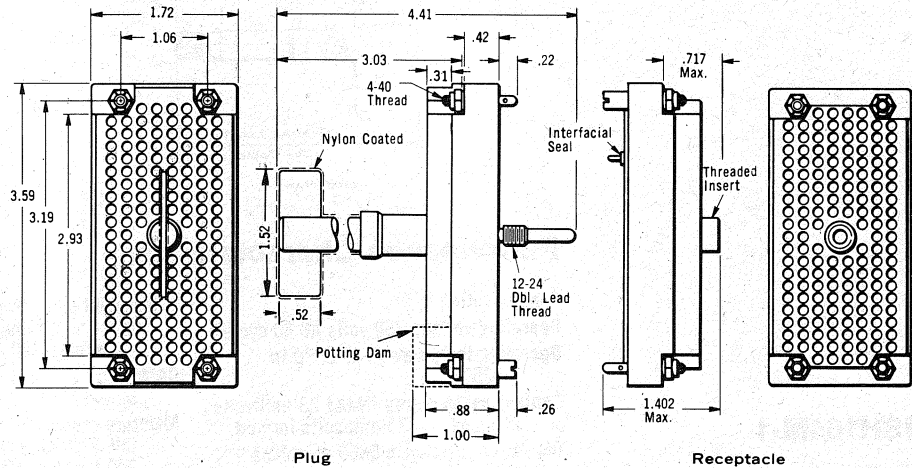
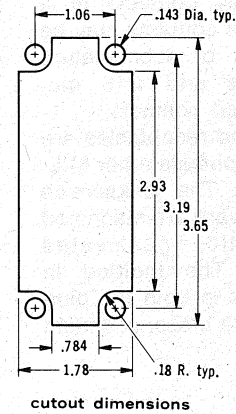
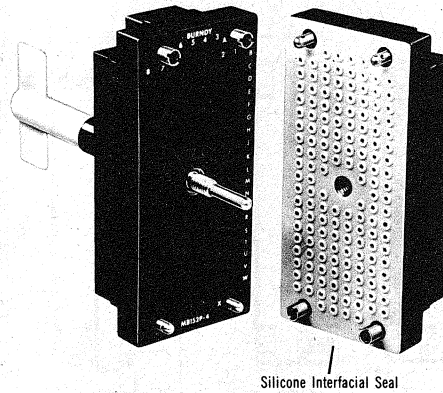
A combination hood and cable clamp assembly has been designed for the MSD104PM-410 and MSD104PM-494 connectors. Unlike the other accessories, this one is not pre-assembled by Burndy to the connector panel but must be ordered separately.



152 Position Block

This connector will accommodate 152 contacts in a single unit. The plug will accept any combination of the Trim Trio Contacts machined formed sockets or subminiature coaxial contact assemblies.

Plugs and receptacles are molded of glass-filled phenolic (MIL-M-14F, Type MFH). Nonreversible pin and socket polarizing guides and jackscrews prevent misalignment and mismatching. A center jackscrew provides ease of connection and disconnection while maintaining positive engagement through severe environmental stresses. Jackscrew hardware and guide pins and sockets are machined of passivated stainless steel.



Performance Characteristics

Contact rating *

Operating voltage 750 volts AC 60 cycles

Operating temperature -55°C to $+125^{\circ}\text{C}$

Contact voltage drop (Max) 23 millivolts machined; 25 millivolts formed

Insulation resistance 5000 megohms minimum

Test potential (1 minute duration)
2000 volts AC 60 cycles

Contact retention in panel 25 lbs. machined, 15 lbs. formed after 10 insertions and withdrawals

*Ref. Performance Characteristics page 2

Crimp joint characteristics machined meet requirements of MIL-C-28748; formed, of MIL-T-7928

Corrosion salt spray per MIL-STD-202, method 101

Moisture resistance withstands 750 volts AC for 5 minutes

Vibration resistance per MIL-STD-202, Method 204

Shock per MIL-STD-202, Method 207

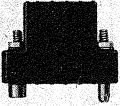

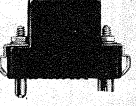
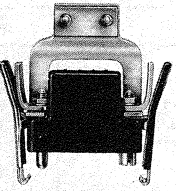
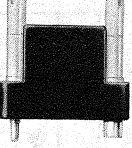
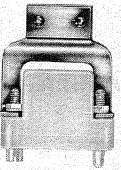
Ordering Information

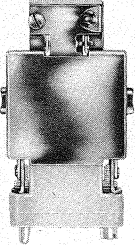
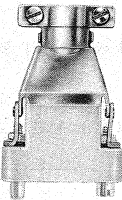


CATALOG NUMBER	Description
MB152-P4	Plug
MB152-R4	Receptacle

PLUG ASSEMBLIES	INTERMATEABILITY CHECK LIST FOR PLUG AND RECEPTACLE VARIATIONS																											
	RECEPTACLE ASSEMBLIES																											
	1	1C	1L	1S	57	57S	58	58S	118	118S	120	120L	120S	124	124S	140	140S	151	269	269C	269L	269S	820	820L	820S	824	824S	840
1	●			●						●		●											●		●			
1C			●								●										●			●				
1L		●																										
1S	●			●						●		●																
57						●	●									●	●	●										●
57S						●	●									●	●	●										
58					●	●			●	●				●	●											●	●	
58S					●	●			●	●				●	●											●	●	
118							●	●								●	●	●										
118S							●	●								●	●											
120	●			●							●		●											●		●		
120L		●																										
120S	●			●							●		●											●		●		
124							●	●								●	●	●										●
124S							●	●								●	●	●										
140					●	●			●	●				●	●												●	●
140S					●	●			●	●				●	●												●	●
151					●	●			●	●				●	●												●	●
269	●			●							●		●						●			●	●	●				
269C			●									●									●				●			
269L		●																		●								
269S	●			●							●		●						●			●						
820	●										●		●											●		●		
820L		●																										
820S				●							●		●											●		●		
824							●	●								●	●	●										●
824S				●			●	●								●	●	●										
840					●	●			●	●				●	●											●	●	

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Selector Chart for 14-75 Place Blocks

 Block With Guide Hardware	 Block With Fixed Jack Hardware	 Block With Quick Disconnect Hardware	 Block With Quick Disconnect Latching Spring	 Block With Turnable Jack Hardware	 Strain Relief Clamp
X					
X					
X					X
X					X
X					
X					
X					
X					
	X				
	X				
	X				X
	X				
	X				
		X			
		X			X
			X		
			X		X
			X		
				X	
				X	
				X	
				X	
				X	
	X				
				X	X
				X	X

 Suitcase Hood	 Clam Shell Hood		 Plug Skirt	 Receptacle Skirt	Variation Number	Catalog Page Number
		X			1	4
			X	X	1S <input type="checkbox"/>	4
		X			269	10
			X	X	269S <input type="checkbox"/>	10
X		X			820	11
X			X	X	820S <input type="checkbox"/>	11
	X	X			120	10
	X		X	X	120S <input type="checkbox"/>	10
		X			58	-
			X	X	58S <input type="checkbox"/>	-
		X			151	10
	X	X			140	10
	X		X	X	140S <input type="checkbox"/>	10
		X			1C	12
					269C	12
		X			1L	12
		X			269L	12
X					820L	12
		X			57	-
			X	X	57S <input type="checkbox"/>	-
	X	X			124	10
	X		X	X	124S <input type="checkbox"/>	10
X		X			824	11
X			X	X	824S <input type="checkbox"/>	11
X					840	11
		X			118	10
			X	X	118S <input type="checkbox"/>	10

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☐ DESIGNATION REQUIRED FOR DISCRIMINATION POSITION
SEE PAGE 9 FOR DETAILS.

How to Order — Hyfen Rectangular Connectors

This catalog has been produced to provide the necessary information to order standard HYFEN Connector assemblies.

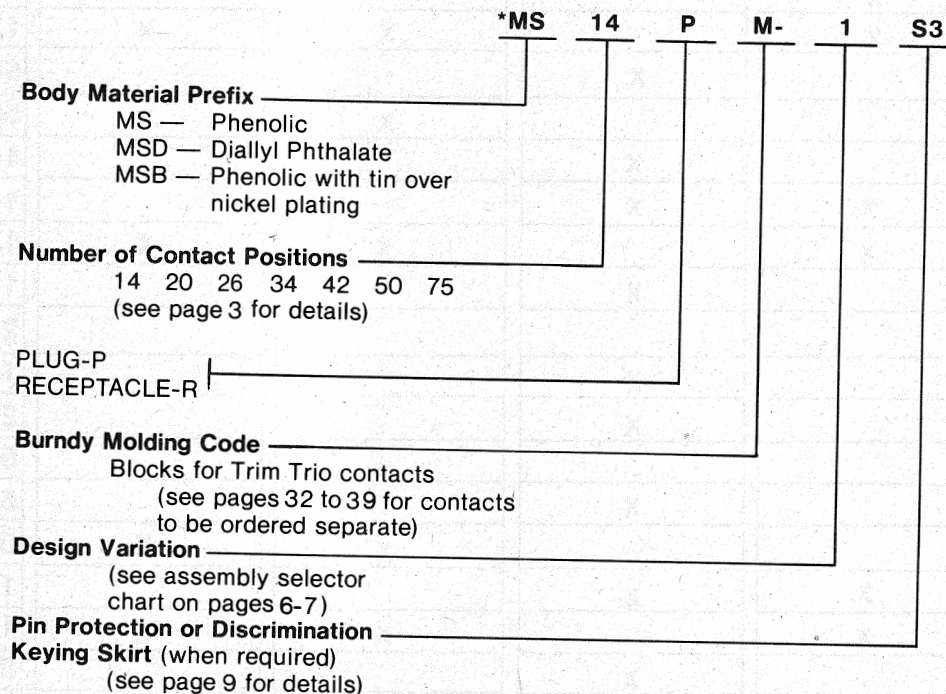
There are five criteria to be considered in developing the part number for a basic connector assembly. **Note:** Trim Trio contacts must be ordered separately.

1. The body material
2. The number of contact positions
3. Plug or receptacle block
4. The design variation number for the desired accessories (i.e., strain-relief clamps, hoods, guide pins and sockets, or jack screws)
5. If optional pin protection skirts are required, the discrimination suffix must be indicated. If skirts are not required no designator is to be included in the part numbering.

A Selector Chart for obtaining the required connector assembly has been included. This chart will identify the variation number and the page number in the catalog containing detailed dimensional information.

If the optional pin protection skirt is selected, the appropriate discrimination suffix number must be selected from page 9.

After selecting plug and receptacle assemblies, it is advisable to verify the intermateability of variations by checking the Intermateability Check List on page 8.



*Example Part Number: Phenolic Block; 14 Positions; Plug; For Trim Trio Contacts To Be Ordered Separate; Guide Pin And Socket Variation; And, Pin Protection Skirt With Discrimination Pin In #3 Key Position

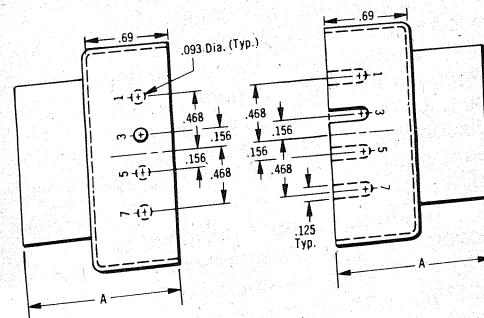
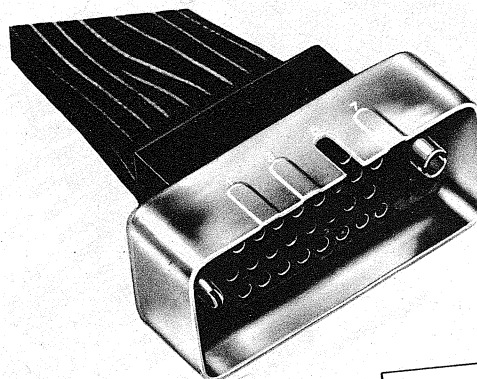
Pin Protection Skirts and Block Assemblies

Pin protection skirts provide contacts with maximum protection from physical damage. The pin protection skirts minimize the danger of short circuiting when connector halves are not mounted.

Material

Aluminum alloy finished with gold chromate per MIL-C-5541.

Pin protection skirts are available in any one of 4 polarizing positions. The location of the polarization pin & slot is specified in the suffix to the catalog number.



Slot No.	Suffix	Catalog Number	
		Plug with Pin	Receptacle with slot
1	S1	MS--P--S1	MS--R--S1
3	S3	MS--P--S3	MS--R--S3
5	S5	MS--P--S5	MS--R--S5
7	S7	MS--P--S7	MS--R--S7
None	S9	MS--P--S9	MS--R--S9

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Pin Protection Skirt and Block Assemblies

	Body Size	"A" Dimensions in Inches	
		Block with Guide Pin and Socket	Block with Rotating Jackscrews
		MS-M, MSD-M,	MS-M, MSD-M,
Pin Protection Skirt and Block	14	1.42	1.45
	20		
	26		
	34		
	42		
	50		
Pin Protection Skirt, Suitcase Hood and Block	75	2.76	3.65
	14		
	20		
	26		
	34		
	42		
	50		
	75		

	Body Size	"A" Dimensions in Inches	
		Block with Guide Pin and Socket	Block with Rotating Jackscrews
		MS-M, MSD-M,	MS-M, MSD-M,
Pin Protection Skirt, Clamshell Hood and Block	14	2.24	2.24
	20		
	26		
	34		
	42		
	50		
Pin Protection Skirt, Cable Clamp and Block	75	2.56	2.56
	14		
	20		
	26		
	34		
	42		
	50		
	75		

Quick Disconnect and Block Assemblies

The Quick Disconnect latch is an effective method of positively connecting 14-50 place MS-M HYFEN plugs and receptacles.

The Quick Disconnect latch consists of a hooked spring on the plug and a retainer on the receptacle. When the plug and receptacle are mated, the spring snaps onto the retainer and locks the plug and receptacle together. The connector halves can be separated by depressing the latch springs.

Note: Pin protection skirts cannot be used with this variation.

Material: Steel C1070 per MIL-S-8143

Finish: Nickel plate per QQ-N-290

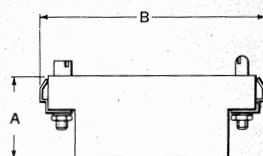
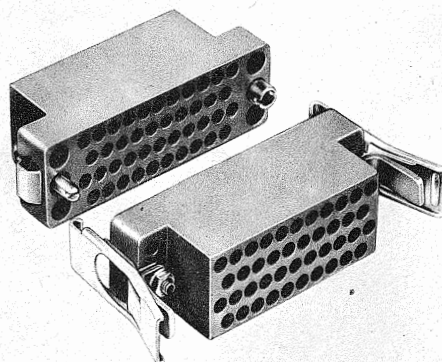


Fig. 1

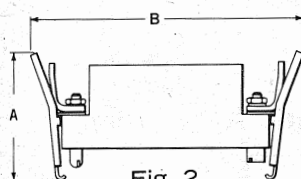


Fig. 2

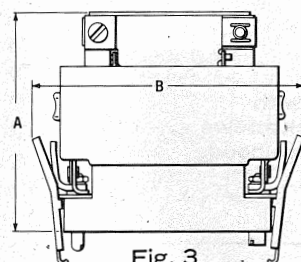


Fig. 3

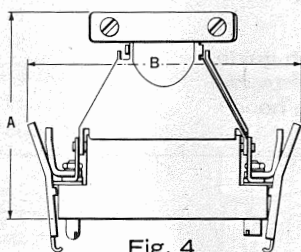


Fig. 4

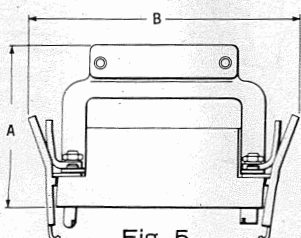
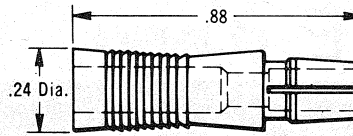


Fig. 5

Fig. 1 Quick Disconnect Latch Retainer with Block	Body Size	Dimensions in Inches	
		"A" max.	"B" max.
		MS-M, MSD-M	all
Fig. 1 Quick Disconnect Latch Retainer with Block	14	.90	1.46
	20		1.77
	26		1.8
	34		2.2
	42		2.5
	50		2.8
Fig. 2 Quick Disconnect Latch Spring with Block	14	1.42	2.9
	20		2.40
	26		2.46
	34		2.84
	42		3.14
	50		3.43
Fig. 3 Quick Disconnect Latch with Suitcase Hood & Block	14	2.59	2.09
	20		2.40
	26		2.46
	34		2.84
	42		3.14
	50		3.43
Fig. 4 Quick Disconnect Latch with Clam- shell Hood & Block	14	1.95	2.09
	20		2.40
	26		2.46
	34	2.27	2.84
	42		3.14
	50		3.43
Fig. 5 Quick Disconnect Latch with Cable Clamp & Block	14	1.66	2.09
	20		2.40
	26	1.83	2.46
	34	1.87	2.84
	42		3.14
	50		3.43

Quick Disconnect Cable Splice Accommodates Trim Trio Contacts:

One subminiature coaxial contact or
One no. 16 machined or formed contact

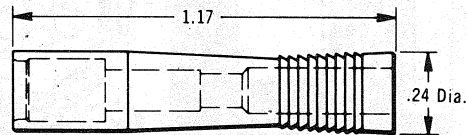


RSCDEX-2 Plug

COLOR TABLE

Catalog No.	Color	Catalog No.	Color
RSCDEX-2	Natural	RSCDEX-9	Green
RSCDEX-5	Black	RSCDEX-10	Yellow
RSCDEX-6	Blue	RSCDEX-11	Purple
RSCDEX-7	Brown	RSCDEX-12	Gray
RSCDEX-8	Red		

Closing with a positive snap this quick disconnect cable splice locks until intentionally separated. At that time a separating force of between three and eleven pounds is all that is needed. This Trim Trio quick disconnect splice offers the user unlimited wiring versatility.

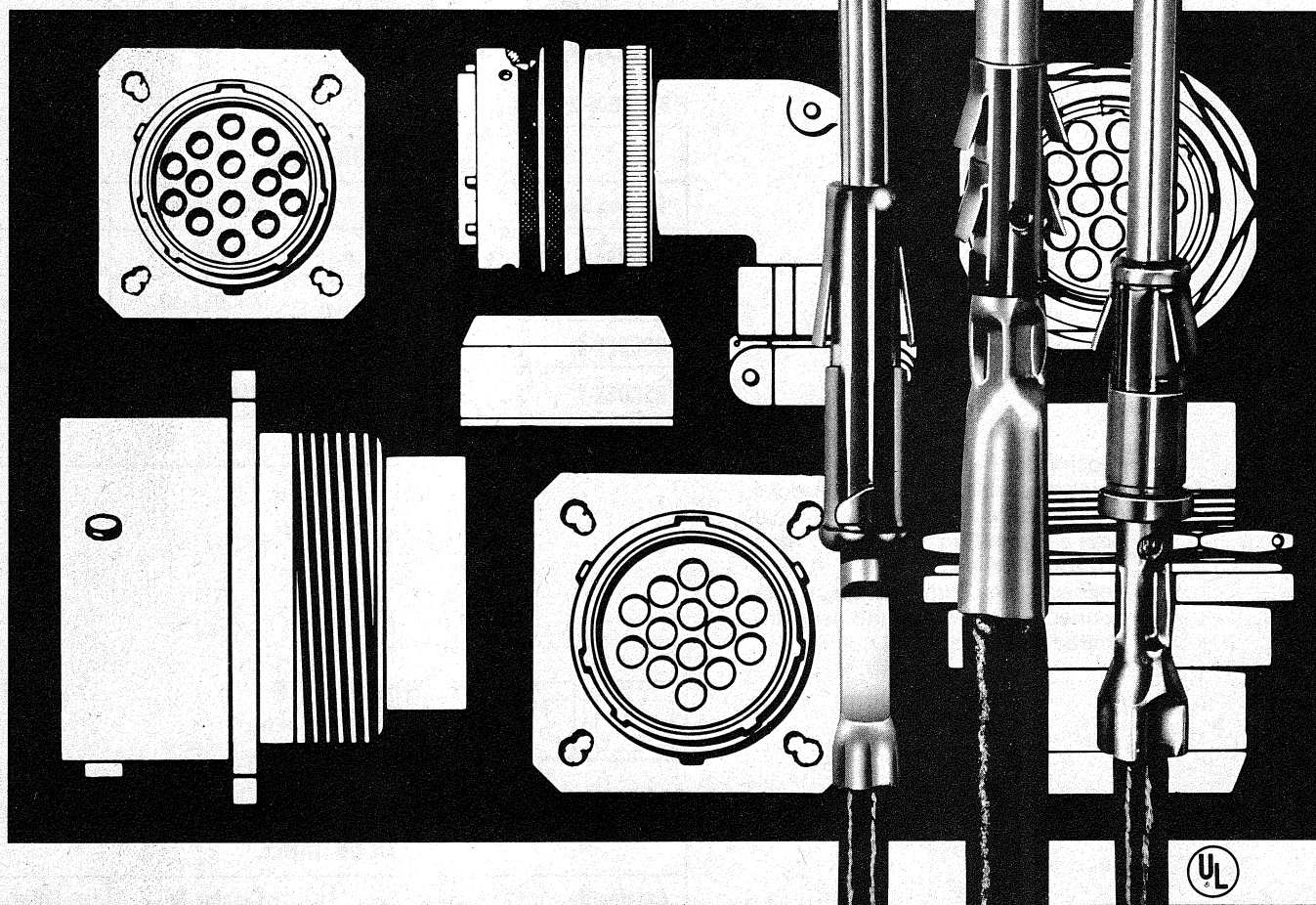


RSMDEX-1 Receptacle

COLOR TABLE

Catalog No.	Color	Catalog No.	Color
RSMDEX-1	Natural	RSMDEX-9	Green
RSMDEX-5	Black	RSMDEX-10	Yellow
RSMDEX-6	Blue	RSMDEX-11	Purple
RSMDEX-7	Brown	RSMDEX-12	Gray
RSMDEX-8	Red		

BANTAMATE CYLINDRICAL



Trim Trio BANTAMATE connectors are available in a full range of sizes, styles and termination to fit every application. Sizes range from 4 to 48 contact positions. 9 shell styles are available with 4 terminations including general duty, strain relief, potting boot and 90° elbow.

Performance Characteristics

Operating Temperature	-55°C to +125°C
Insulation Resistance	5000 megohms
Test Potential — Dielectric	
Withstanding Voltage	2000 VAC, 60 HZ for 1 minute.
Contact Retention	25 lbs. (machined) 15 lbs. (formed)
Corrosion	Salt spray per MIL-STD-202; method 101
Vibration Resistance	per MIL-STD-202, method 204
Shock	per MIL-STD-202, method 207
Durability	500 Cycles

Polarizations

How to Order

MIL-C-26482
Equivalent
(Reference)

**SHELL
CONFIGURATIONS**
MS 3120

TRIM-TRIO BANTAM

SHELL STYLE

- Wall Mounting flange receptacle 0
- Cable connecting receptacle 1
- Box mounting flange receptacle 2
- Straight plug 6
- Jam nut rear mounting receptacle 4
- Jam nut rear mounting receptacle without accessory back 3
- Box mounting large flange receptacle for rear panel mounting 7
- Wall mounting large flange receptacle for rear panel mounting 8
- Straight Plug-Grounding 9
- Termination Class**
- Adaptor for use with conduit and/or MS3057 cable clamp A
- No termination B
- Wire strain relief clamp F
- 90° elbow with strain relief clamp L
- Jacketed cable J
- Jacketed cable-strain relief JF
- Potting boot P
- Shell size**
- Insert arrangement
- Contact (pin or socket)
- Insert polarization
- Finish

G O A 16 19 P N H*

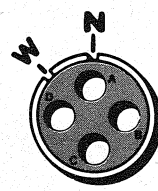
UL approved file no.-E31151

*FINISH

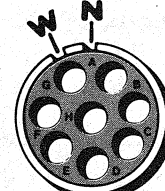
H — Cadmium plate with olive drab chromate conversion coating as specified in MIL-C-26482

E — Cadmium plate with clear chromate conversion coating.

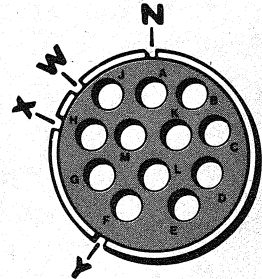
SHELL SIZE	ARRANG. NO.	INSERT POSITION IN SHELL			
		W	X	Y	Z
10	4	45°	—	—	—
12	88	26°	—	—	—
14	92	49°	71°	145°	—
16	19	30°	165°	—	315°
18	22	39°	77°	167°	—
20	30	34°	90°	123°	259°
22	38	15°	47°	150°	331°
24	48	60°	120°	189°	315°



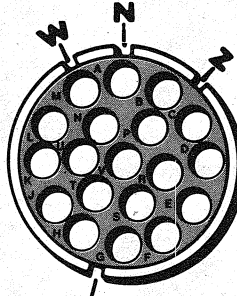
10-4



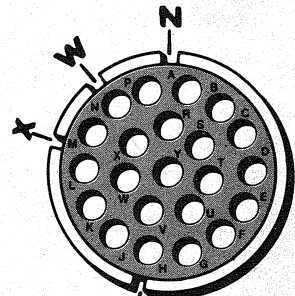
12-88



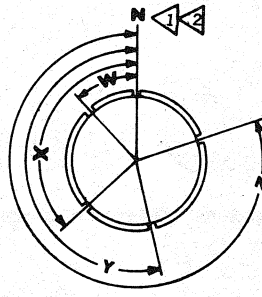
14-92



16-19

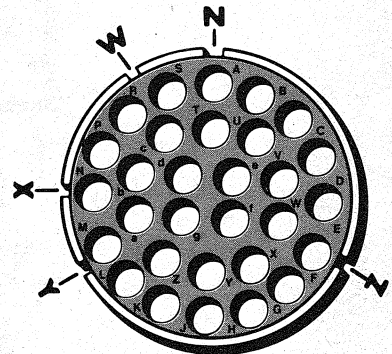


18-22

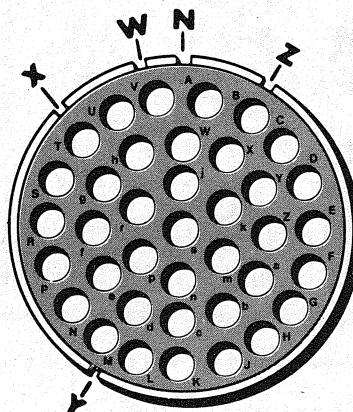


ALTERNATE KEYWAY POSITIONS

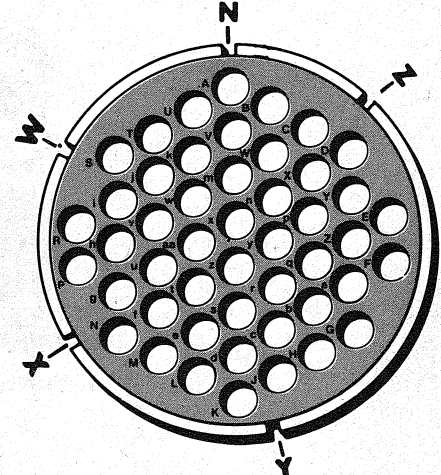
1 Typical mating face of pin insert shown. (Socket insert opposite).
2 Unless otherwise specified, "N" keyway is standard position on all keyways. Angles given are counter clockwise from "N" position, (socket insert opposite).



20-30



22-38

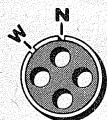


24-48

RACK & PANEL

Round Connectors

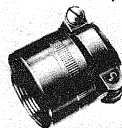
Shell Size
10
Trim Trio
Round
Connectors



10-4

TERMINATIONS AND DIMENSIONS

F strain relief clamps



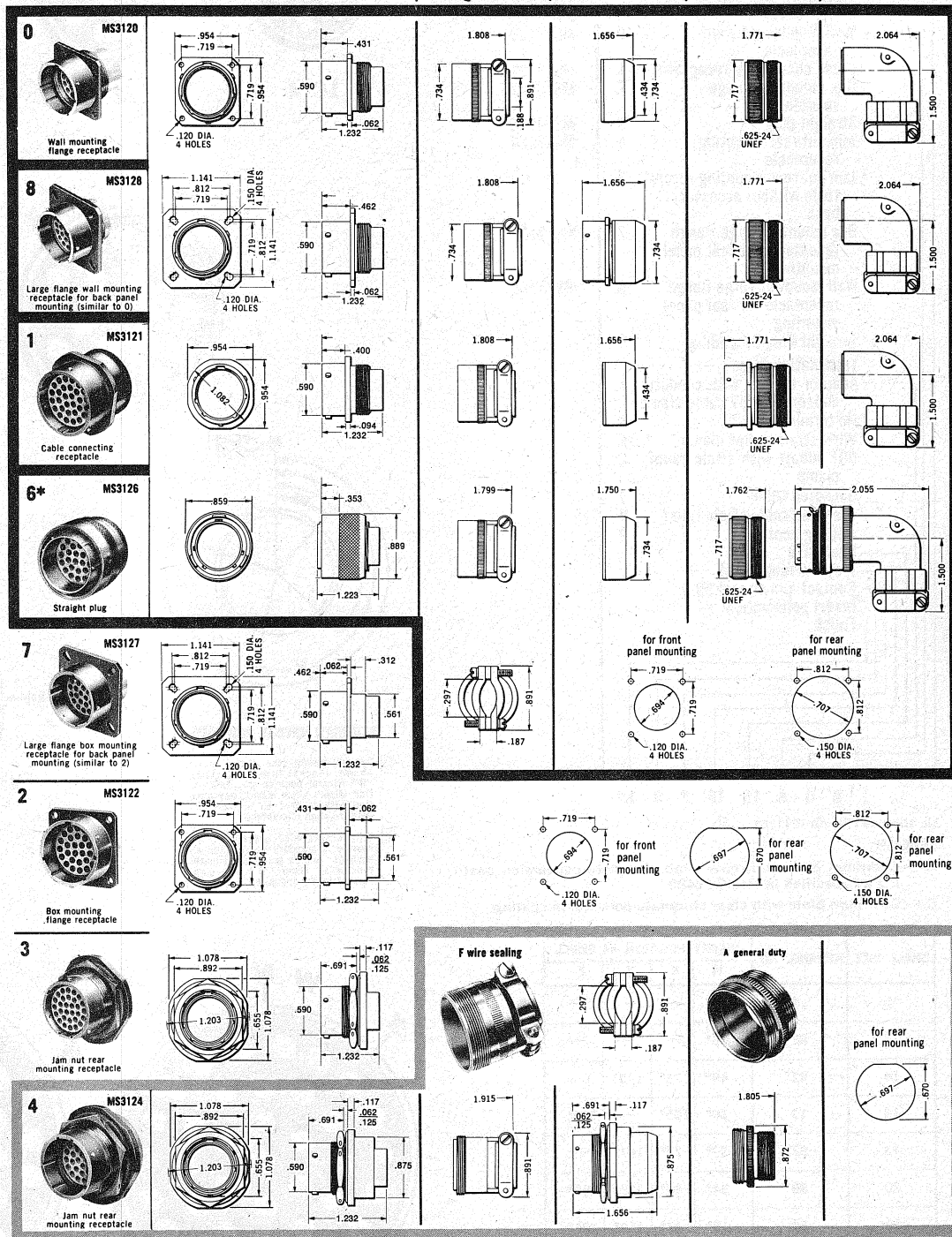
P potting boot



A general duty



L 90° elbow



*Available with grounding finger — shell style 9.

Round Connectors

Shell Size

12

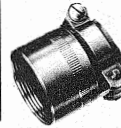
Trim Trio
Round
Connectors



12-88

TERMINATIONS AND DIMENSIONS

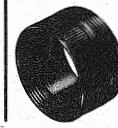
F strain relief clamps



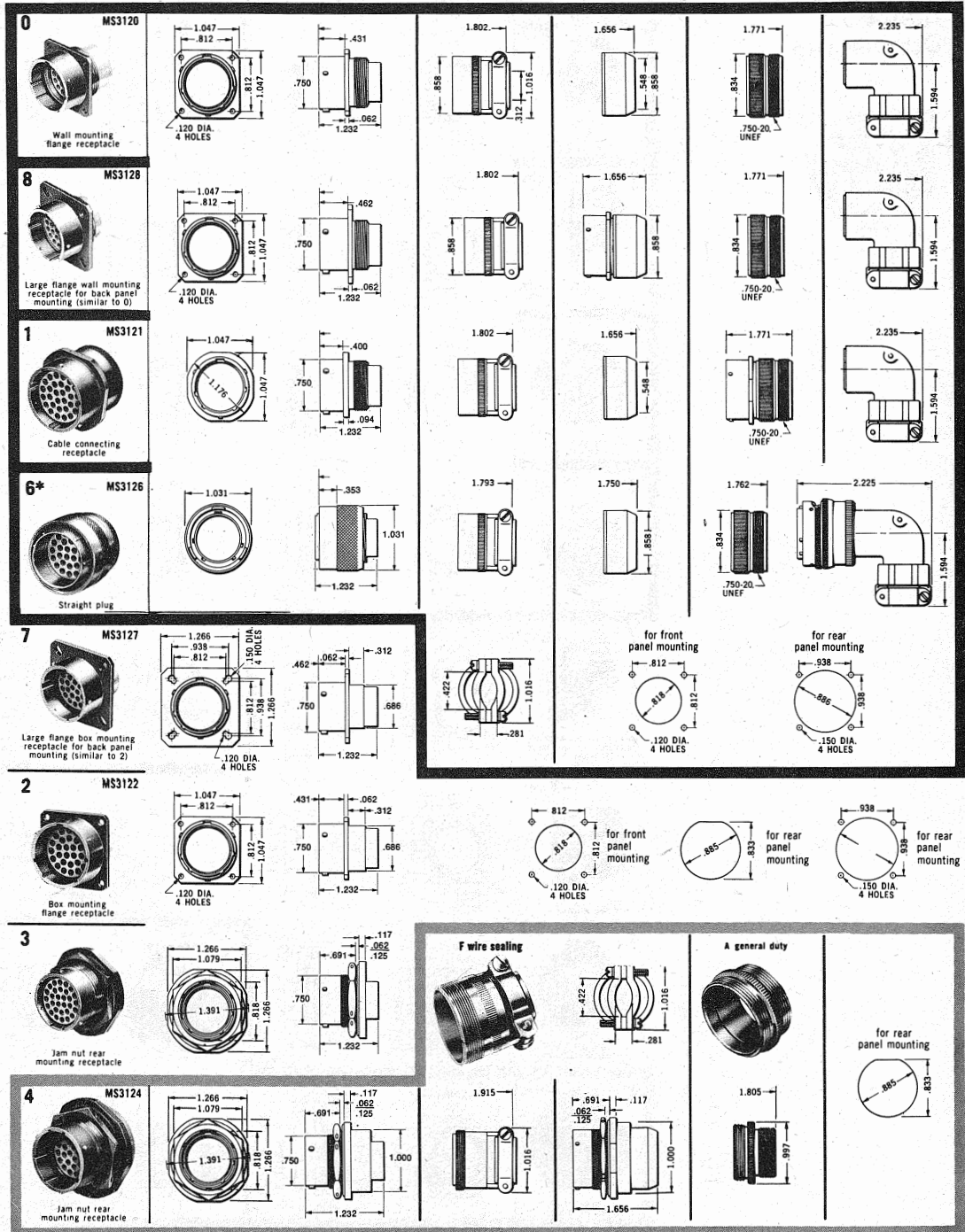
P potting boot



A general duty



L 90° elbow



RACK & PANEL

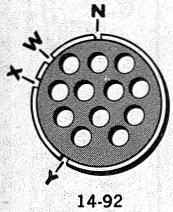
*Available with grounding finger — shell style 9.

Round Connectors

Shell Size

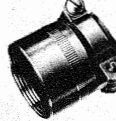
14

Trim Trio
Round
Connectors



TERMINATIONS AND DIMENSIONS

F strain relief clamps



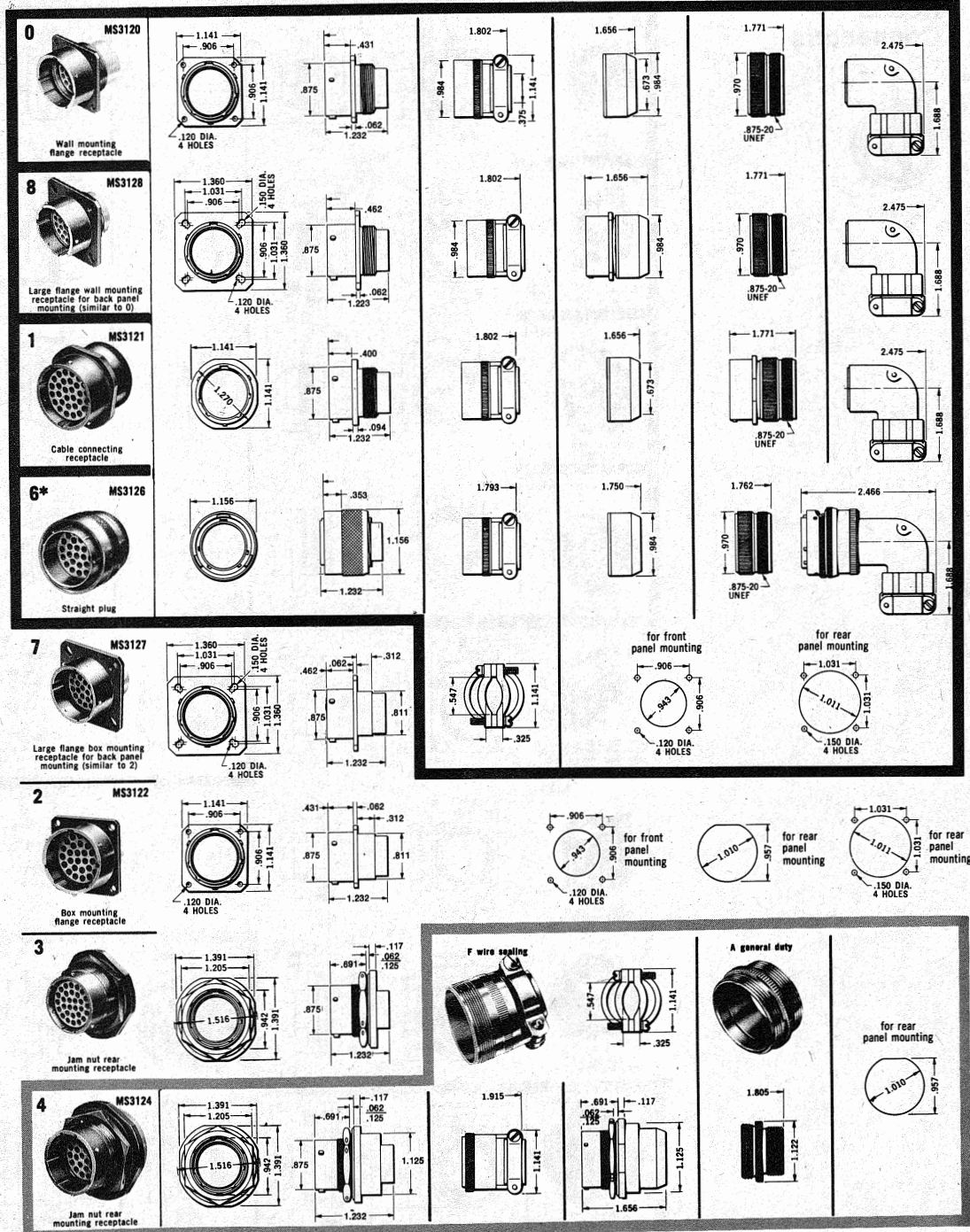
P potting boot



A general duty



L 90° elbow



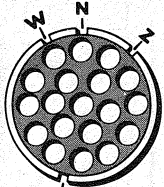
*Available with grounding finger — shell style 9.

Round Connectors

Shell Size

16

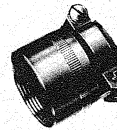
Trim Trio
Round
Connectors



16-19

TERMINATIONS AND DIMENSIONS

F strain relief clamps



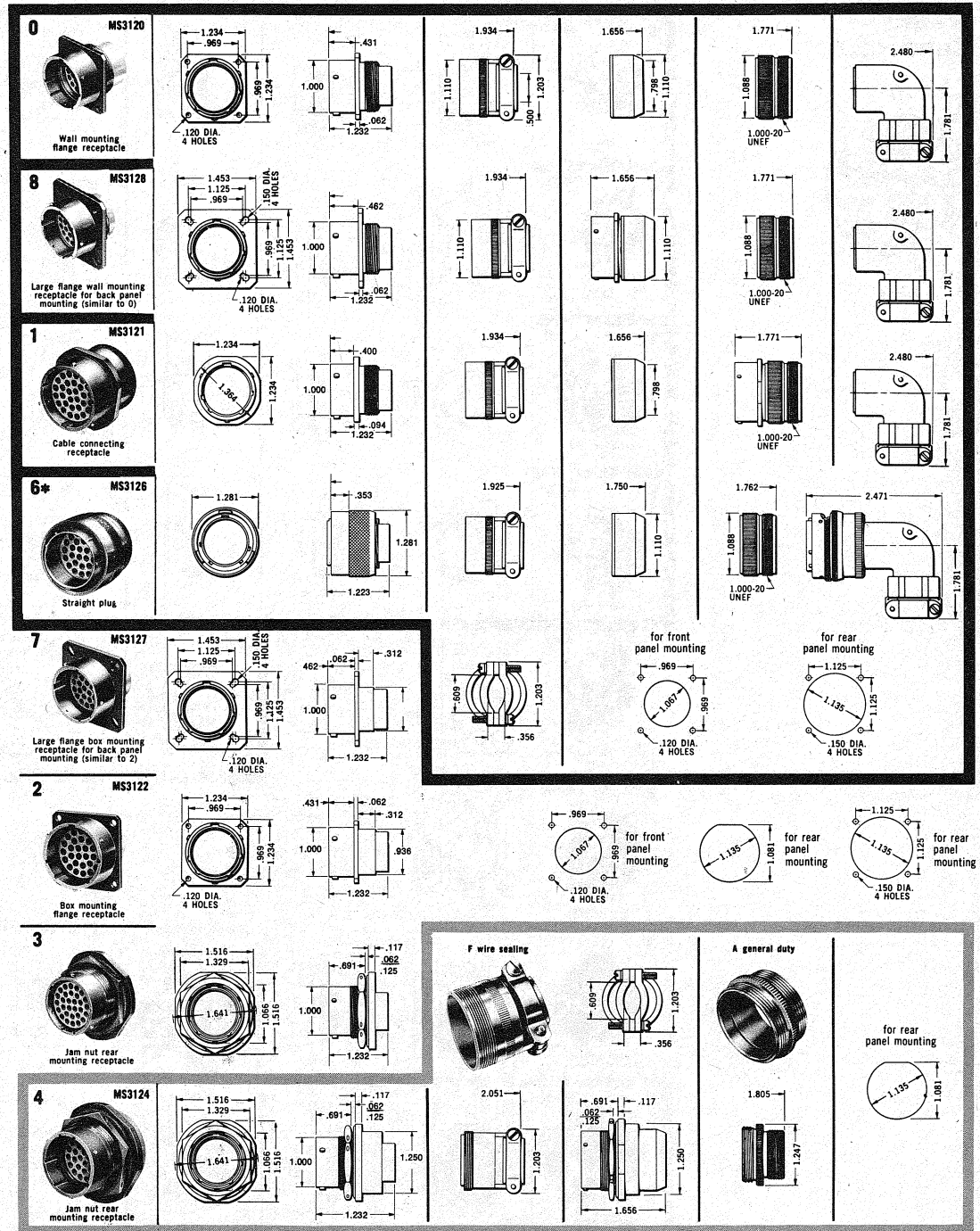
P potting boot



A general duty



L 90° elbow



RACK & PANEL

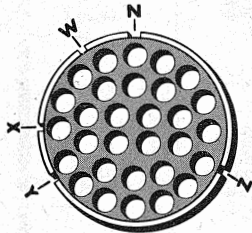
*Available with grounding finger — shell style 9.

Round Connectors

Shell Size

20

Trim Trio
Round
Connectors



20-30

TERMINATIONS AND DIMENSIONS

F strain relief clamps



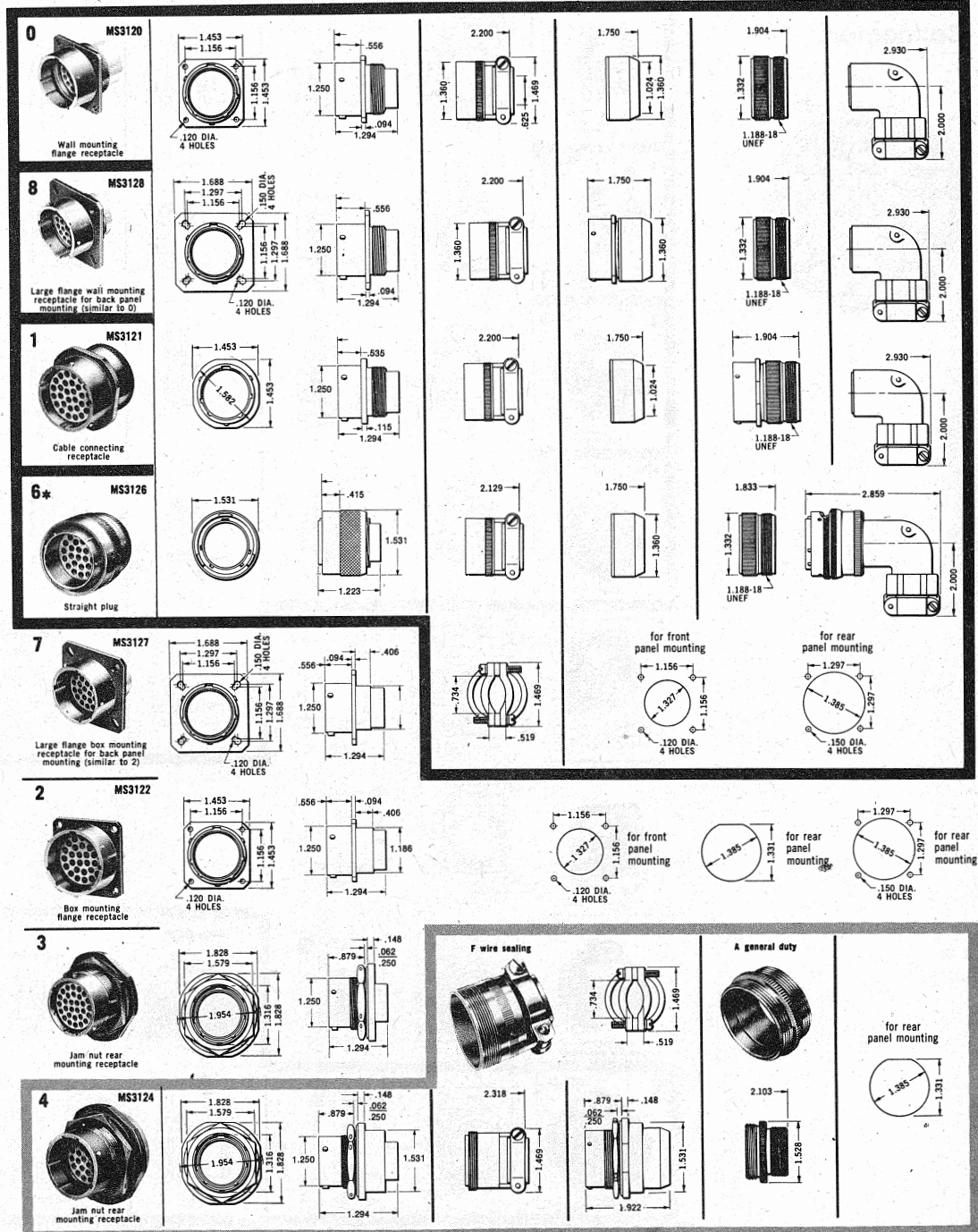
P potting boot



A general duty



L 90° elbow



RACK & PANEL

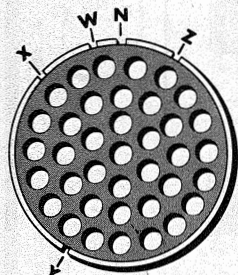
*Available with grounding finger — shell style 9.

Round Connectors

Shell Size

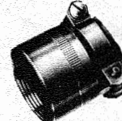
22

Trim Trio
Round
Connectors



TERMINATIONS AND DIMENSIONS

F strain relief clamps



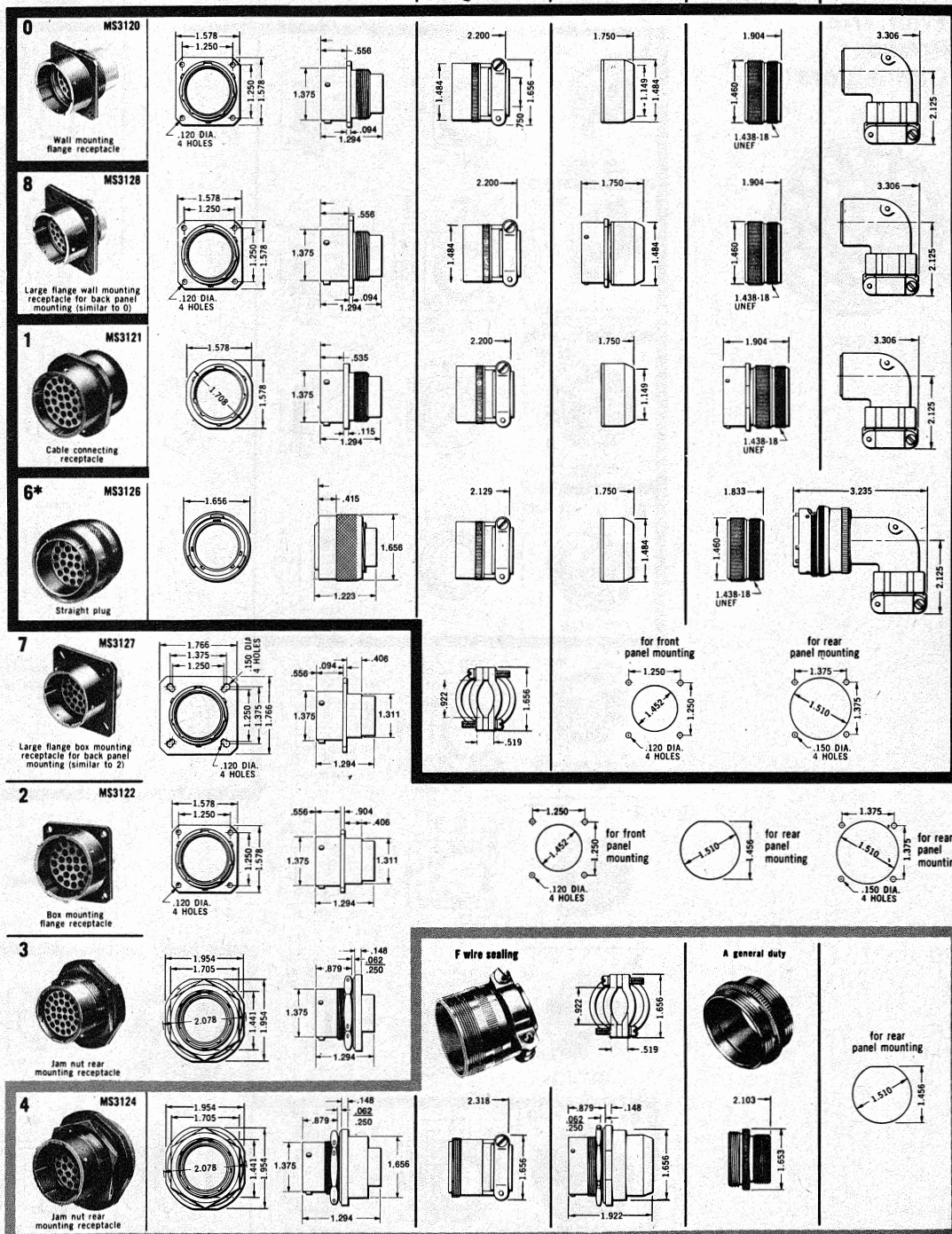
P potting boot



A general duty

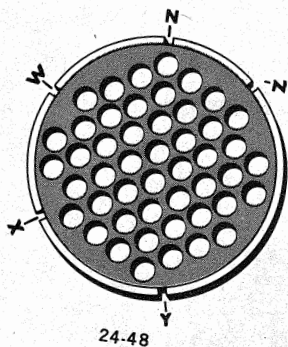


L 90° elbow



*Available with grounding finger — shell style 9.

Shell Size
24
Trim Trio
Round
Connectors



F strain relief clamps



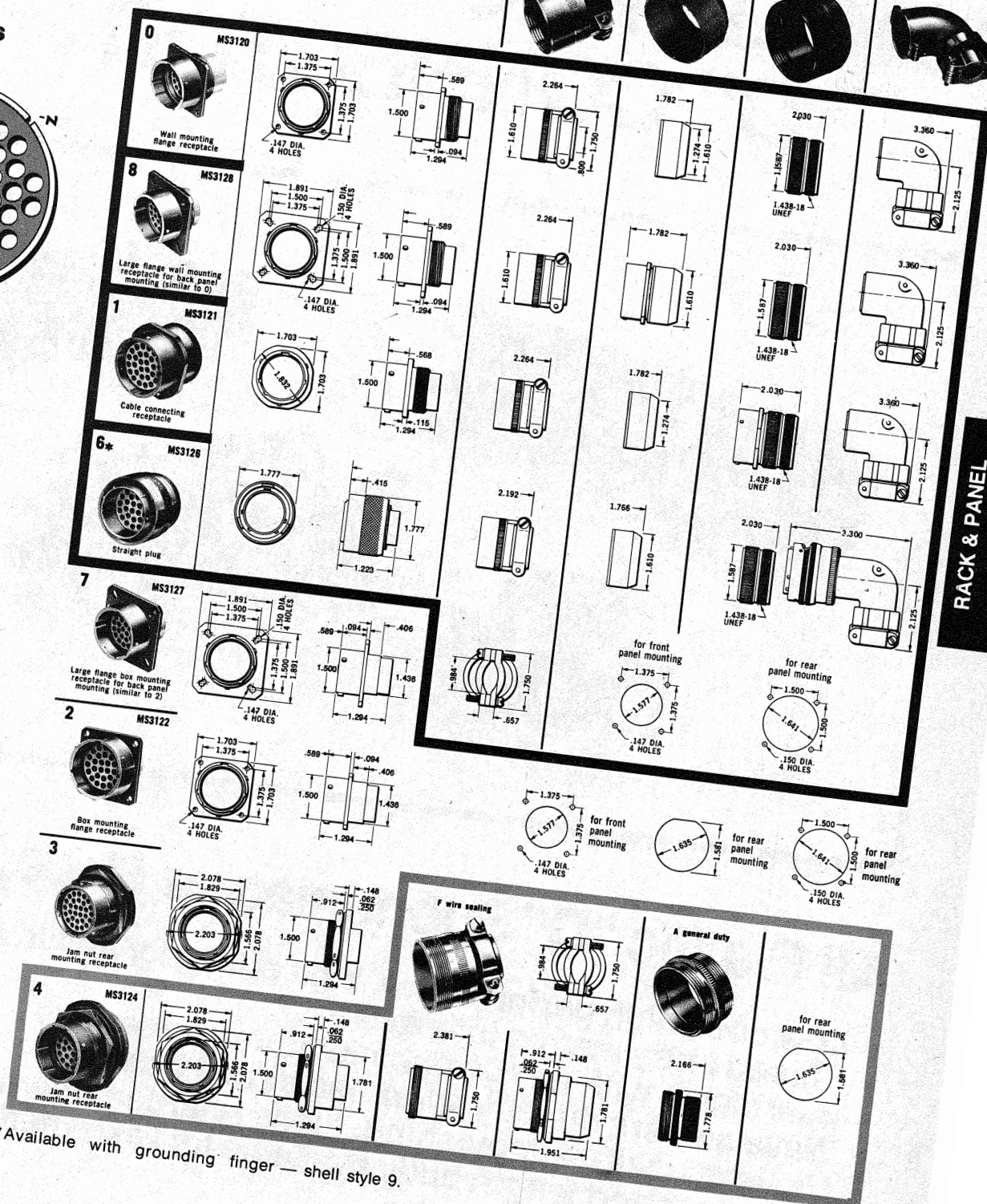
P petting host



A general duty



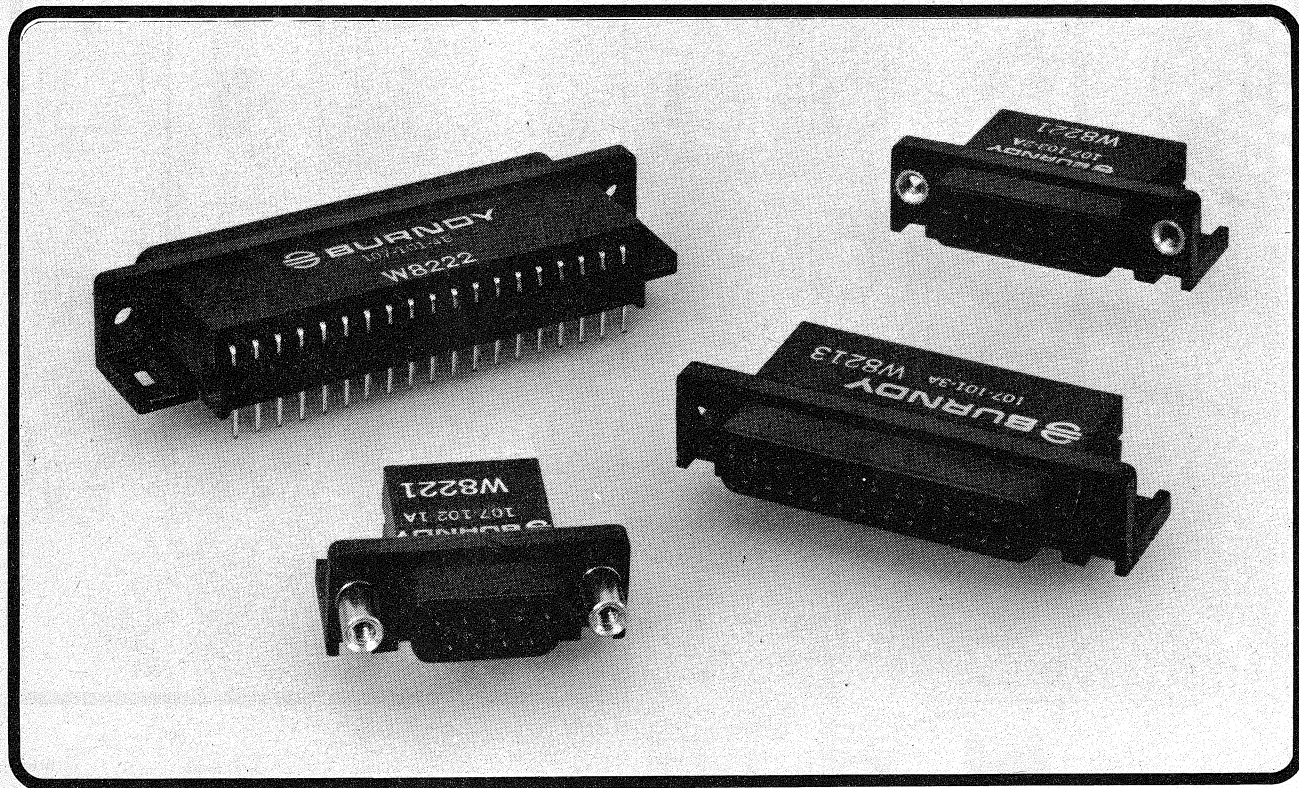
L 90° elbow



RACK & PANEL

*Available with grounding finger — shell style 9.

107 SERIES, RIGHT ANGLE, RECTANGULAR "D" CONNECTOR



All Plastic "D" Subminiature Receptacle

- Low cost, high performance, high reliability applications
- Closed entry mating interface
- Intermates with all "D" subminiature connectors
- Wave solders directly to printed circuit boards
- UL listed, self-extinguishing, flame retardant thermoplastic
- Optional short length body available for restricted areas

 **BURNDY**

Suitcase Hood and Block Assemblies

The suitcase hood, preassembled, opens easily for contact insertion, inspection, or changes, and snaps shut. Assemblies can include turnable jack screws, quick disconnects, pin protection skirts, guide pins and sockets. See pages 6-7 for these variations.

Material:

Hood, Cable Clamp Bar, Hinge

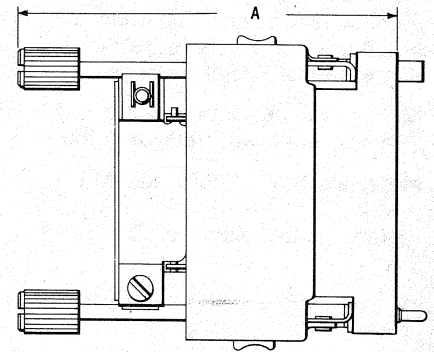
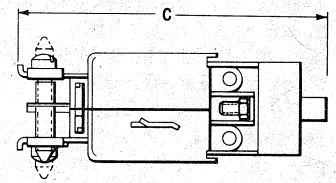
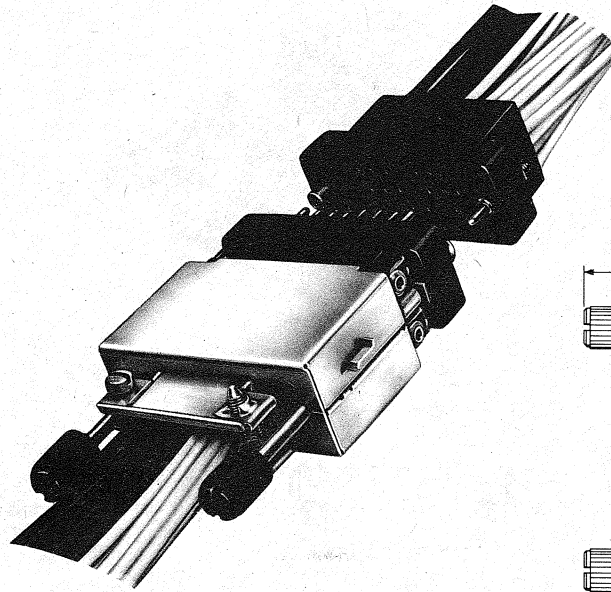
Block: Aluminum per QQ-A-250.

Finish: Gold chromate per MIL-C-5541

Latch: Cooper alloy per ASTM B-122, Alloy 3 or per QQ-C-585 Comp. 5.

Jackcrew: Passivated stainless steel, A1S1B113 per QQ-S-633.

Jackcrew Knob: Nylon per MIL-P-20693, Type 3.



Suitcase Hood and Assemblies

"A" Dimension	Body Size	Dimensions in Inches
		MS-M, MSD-M
Block with rotating jackscrews and suitcase hood	14	3.33
	20	
	26	
	34	
	42	
	50	
	75*	
"C" Dimension	14	2.56
	20	
	26	
	34	
	42	
	50	
	75*	

*May be used on plug only.

Quick Disconnect and Block Assemblies

The Quick Disconnect latch is an effective method of positively connecting 14-50 place MS-M HYFEN plugs and receptacles.

The Quick Disconnect latch consists of a hooked spring on the plug and a retainer on the receptacle. When the plug and receptacle are mated, the spring snaps onto the retainer and locks the plug and receptacle together. The connector halves can be separated by depressing the latch springs.

Note: Pin protection skirts cannot be used with this variation.

Material: Steel C1070 per MIL-S-8143

Finish: Nickel plate per QQ-N-290

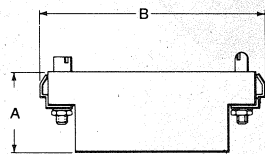
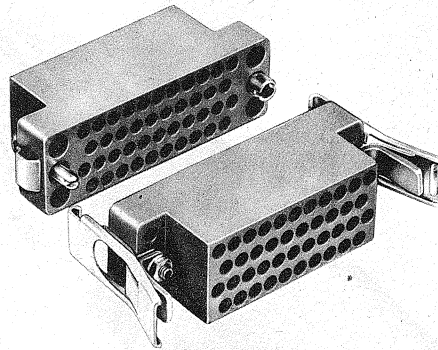


Fig. 1

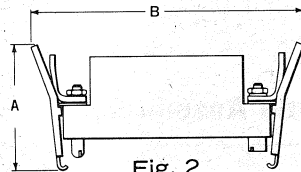


Fig. 2

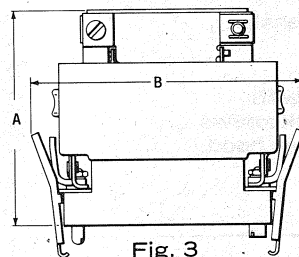


Fig. 3

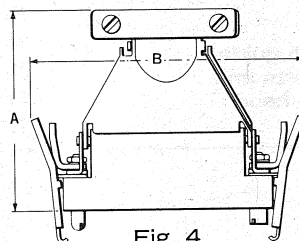


Fig. 4

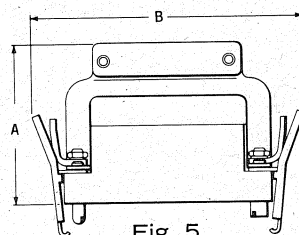


Fig. 5

Fig. 1 Quick Disconnect Latch Retainer with Block	Body Size	Dimensions in Inches	
		"A" max.	"B" max.
		MS-M, MSD-M	all
	14	.90	1.46
	20		1.77
	26		1.83
	34		2.20
	42		2.52
	50		2.81
Fig. 2 Quick Disconnect Latch Spring with Block	14	1.42	2.09
	20		2.40
	26		2.46
	34		2.84
	42		3.14
	50		3.43
Fig. 3 Quick Disconnect Latch with Suitcase Hood & Block	14	2.59	2.09
	20		2.40
	26		2.46
	34		2.84
	42		3.14
	50		3.43
Fig. 4 Quick Disconnect Latch with Clam- shell Hood & Block	14	1.95	2.09
	20		2.40
	26		2.46
	34	2.27	2.84
	42		3.14
	50		3.43
Fig. 5 Quick Disconnect Latch with Cable Clamp & Block	14	1.66	2.09
	20		2.40
	26	1.83	2.46
	34	1.87	2.84
	42		3.14
	50		3.43

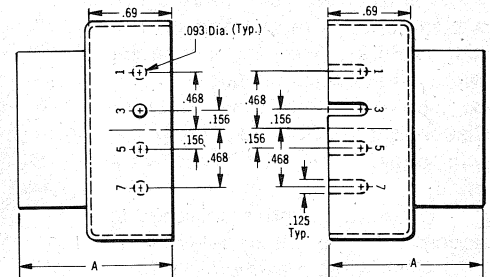
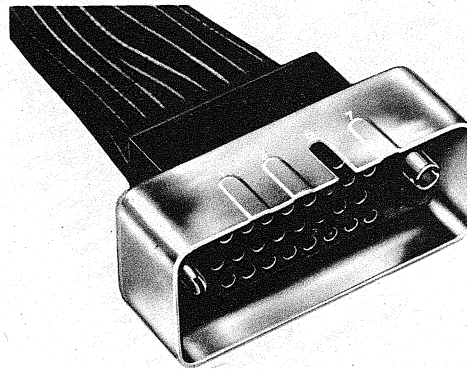
Pin Protection Skirts and Block Assemblies

Pin protection skirts provide contacts with maximum protection from physical damage. The pin protection skirts minimize the danger of short circuiting when connector halves are not mounted.

Material

Aluminum alloy finished with gold chromate per MIL-C-5541.

Pin protection skirts are available in any one of 4 polarizing positions. The location of the polarization pin & slot is specified in the suffix to the catalog number.



Slot No.	Suffix	Catalog Number	
		Plug with Pin	Receptacle with slot
1	S1	MS--P--S1	MS--R--S1
3	S3	MS--P--S3	MS--R--S3
5	S5	MS--P--S5	MS--R--S5
7	S7	MS--P--S7	MS--R--S7
None	S9	MS--P--S9	MS--R--S9

RACK & PANEL

Pin Protection Skirt and Block Assemblies

	Body Size	"A" Dimensions in Inches	
		Block with Guide Pin and Socket	Block with Rotating Jackscrews
		MS-M, MSD-M,	MS-M, MSD-M,
Pin Protection Skirt and Block	14	1.42	1.45
	20		
	26		
	34		
	42		
	50		
Pin Protection Skirt, Suitcase Hood and Block	75	2.76	3.65
	14		
	20		
	26		
	34		
	42		
	50		
	75		

	Body Size	"A" Dimensions in Inches	
		Block with Guide Pin and Socket	Block with Rotating Jackscrews
		MS-M, MSD-M,	MS-M, MSD-M,
Pin Protection Skirt, Clamshell Hood and Block	14	2.24	2.24
	20		
	26		
	34		
Pin Protection Skirt, Cable Clamp and Block	42	2.56	2.56
	50		
	75		
	14		
	20		
	26		
	34	2.12	2.12
	42		
	50		
	75		

Clamshell Hood and Block Assemblies

The clamshell hood, used either with jackscrews or guide pins, allows contacts to be snapped into and removed from the connector without removing the hood. It may be used in conjunction with a quick disconnect or pin protection skirts. See pages 6-7 for these variations.

The hood clamp is designed to accommodate a full complement of #20 AWG wires maximum per MIL-W-16878 (.081 diameter maximum over insulation with or without outer nylon jacket). Clamp will close down to a minimum wire accommodation of 50% capacity.

Material:

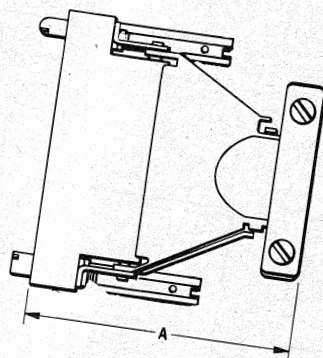
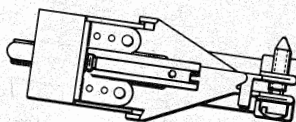
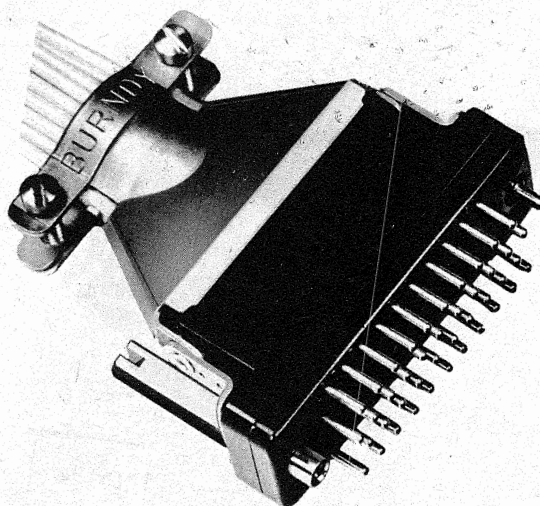
Hood: aluminum alloy

Jackscrews: passivated stainless steel

Jack socket: passivated stainless steel

Finish:

Hood: gold chromate per MIL-C-5541

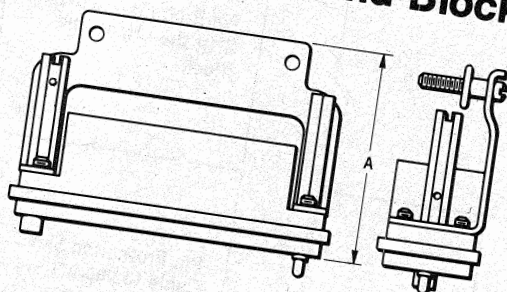


Clamshell Hood and Block Assemblies

ClamshellHood and Block Assemblies		
Body Size	"A" Dimensions in Inches	
	MS-M, MSD-M	
14	1.92	2.24
20		
26		
34		
42		
50		
75		

Cable Clamp and Block Assemblies

The cable clamp is designed for use with all MS-M type miniature rectangular HYFEN connectors and can be fitted to either the plug or receptacle. It may be used with either guide pins or rotating jack screws. The cable clamp affords strain relief and permits easy access to contacts. The conductor strain relief and permits easy access to contacts. The conductor clamp are rubber sleeved to prevent damage to the conductor insulation. It can be used with pin protection skirts. See pages 6-7 for these variations.



Cable Clamp and Block Assemblies

"A" Dimensions in Inches	
Body Size	MS-M, MSD-M
14	1.58
20	1.59
26	1.77
34	1.80
42	
50	
75	