M55302 Two Piece Edge Board Connectors





- M55302 Qualified
- 64 & 96 Pin Male and Female
- Vertical and Right Angle
- Gold Plated Contacts
- Certified to M55302 (500 mating cycles)
- Marked with Military number
- Group A & B testing standard

M55302 / XXX - XX

01-09 = Contact Style Contact Tail Length

131 = 96 Pin R/A Male

132 = 96 Pin Vert Female

133 = 64 Pin R/A Male

134 = 64 Pin Vert Female

157 = 64 Pin Vert Male

148 = 64 Pin R/A Female

MIL-C-55074

Hermaphrocon™ Connecting System



FEATURES:

- Designed for mobile, transportable, and semi-permanent military communications facilities (telephone, telegraph, teletype, radio, etc.)
- High-reliability Hermaphrocon[™] connectors are designed for speedy, foolproof interconnections under extreme field conditions, are impossible to mismate, even in the dark
- Hermaphrocon[™] plugs mate interchangeably with both receptacles and plugs, permitting connection of either cable end to any other cable end of distribution box
- Redundant Hermaphrocon[™] design provides 104 contacts for 52 cable conductors (52 pairs) assures circuit continuity with up to 50% contact damage (jumpers linking redundant contact pairs are welded for reliability)
- Rugged, waterproof Hermaphrocon™ connectors resist wear and damage caused by dragging on the ground or through water, even without covers

SPECIFICATIONS:

- PLUG, ELECTRICAL U-185B/G CONNECTOR
- RECEPTACLE, ELECTRICAL U-186C/G CONNECTOR
- RECEPTACLE, ELECTRICAL U-187A/G CONNECTOR
- CONTACT ASSEMBLY, ELECTRICAL MX-3227/G (as applicable)
- HOUSINGS:
 Die-cast aluminum alloy with protective finish per MIL-F-14072
- GASKETS AND GLANDS: Silicone rubber
- INSULATORS: Fortron-PPS-Black
- INSULATION RESISTANCE: 1000 megohms, minimum
- CONTACTS: Beryllium copper, gold plated
- CONTACT RESISTANCE:
 7 milliohms, maximum
- IMMERSION: per MIL-C-55074
- MOISTURE RESISTANCE: per MIL-C-55074
- AIR LEAKAGE: per MIL-C-55074
- VIBRATION: per MIL-C-55074
- TEMPERATURE: –65°F to 150°F
- OVERALL DIMENSIONS (approx.):
 U-185B/G 2.437" x 2.750" x 13.125"
 U-186C/G 3.500" x 4.000" x 6.375"
 U-187A/G 2.375" x 3.125" x 6.375"
- MILITARY SPECIFICATION: MIL-C-55074, MIL-STD-454

Plug (Cable Connector)



Receptacle



Side Mount



Contact Assembly

MX-3227/G



Binding Post



ELCO P/N 08 2264 0130 00 000 MATERIAL: Brass, machined (terminal) Nylon (housing)

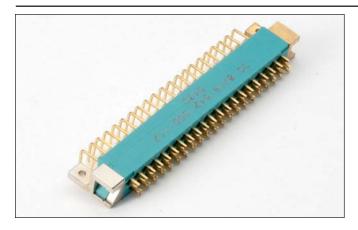
PART	ELCO	MILITARY	DESCRIPTION
	PART NUMBER	PART NUMBER	
ELCO HERMAPHROCON™ CONNECTORS	08 2260 0110 00 000	U-185B/G M-55074/1-01	HERMAPHROCON™ PLUG, cable type
	08 2276 0110 00 000	U-186C/G M-55074/2-01	HERMAPHROCON™ RECEPTACLE, panel type
	08 2263 0110 00 000	U-187A/G M-55074/3-01	HERMAPHROCON™ RECEPTACLE, panel type
	08 2260 9010 00 000	MX-3227/G M-55074/4-01	HERMAPHROCON™ CONTACT ASSEMBLY
BINDING POSTS	08 2264 0110 00 000	SIG. CORPS. DWG. #	SHORT SPRING BINDING POST ASSEMBLY
		SC-C-136011	with O-ring, flat washer, split washer and nut - White
	08 2264 0120 00 000	SIG. CORPS. DWG. #	SHORT SPRING BINDING POST ASSEMBLY
		SC-C-136001	without hardware - White
	08 2264 0130 00 000	SIG. CORPS. DWG. #	LONG SPRING BINDING POST
	00 2204 0100 00 000	SC-C-136001	with O-ring, flat washer, split washer and nut - White
	08 2264 0121 00 000	SIG. CORPS. DWG. #	LONG SPRING BINDING POST
		SC-C-136001	without hardware - White



Varicon®

Series 8219 - 0.050" Staggered Dual Row





FEATURES

- For p.c. card-to-card applications
- High contact density
- Low withdrawal force contacts
- Rugged, color coded end guides
- Parallel or perpendicular p.c. board mounting
- Mates with Series 8218

TECHNICAL SPECIFICATIONS

Current Rating:

5 amperes, maximum

Contact Resistance:

6 milliohms, maximum

Contact Material and Plating:

Phosphor Bronze

Gold, 10 microinches minimum, over nickel, 50 to 100 microinches

Insulator Material:

Diallyl phthalate, glass-filled, flame resistant per MIL-M-14F, Type SDGF.

Guidance Hardware:

Left hand guides: Metal, gold color Right hand guides: Metal, silver color

Insulation Resistance:

5,000 megohms, minimum

Dielectric Withstanding Voltage:

Sea Level: 1000 Volts rms 3.4" Hg: 500 Volts rms

001

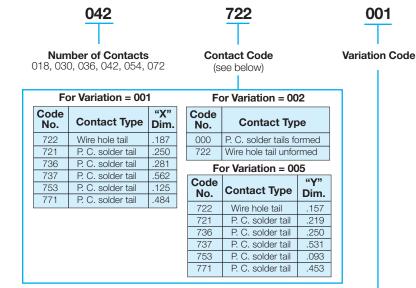
Insertion/Withdrawal Force:

2 to 8 ounces per contact

ORDERING CODE







Without	001 = Receptacle		
Keying	002 = Plug, parallel board mounting		
Reynig	005 = Plug, perp	pendicular board mounting	

NOTE: Connector is supplied with mounting screws or eyelets, as applicable (see drawings).

Contact Factory for Special Variations.

POLARIZING SYSTEM

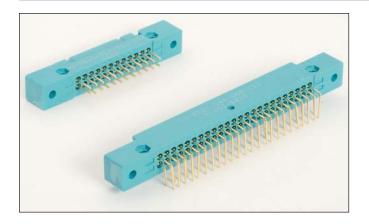
When Keying is ordered with part number, the Key is installed at the factory.





Series 8223 - 0.100" Dual Row Square Grid





FEATURES

- Wide range of contact terminations including wire wrapping, P.C. solder tail, wire hole, wire crimp
- For 1/16", 3/12" P.C. card
- Polarity and keying are built into the connector body to prevent mismating
- Perpendicular or parallel connector mounting
- Proven Varicon® contact reliability
- Protected male; recessed female contacts

TECHNICAL SPECIFICATIONS CONTACTS

Current Rating:

5 amperes with 22 AWG wire

Contact Resistance:

6 milliohms, maximum

Contact Material and Plating:

Phosphor Bronze

Nickel plate, 50 to 100 microinches, followed by gold plate. 10 microinches minimum

INSULATORS

Material:

Diallyl Phthalate, glass-filled, flame resistant, per MIL-M-14-F, Type SDGF

Insulation Resistance:

5,000 megohms, minimum

Dielectric Withstanding Voltage:

Sea Level: 1,000 Volts rms
Insertion/Withdrawal Force:

2 to 8 ounces per contact

ORDERING CODE

00

8223

024 Number of Contacts 024, 048, 072 & 096 000

Contact Code

001
Variation Code

Use three digit code number when contacts are to be factory installed. If contacts are to be supplied loose, or contact tails to be formed, use three zeros (000) in contact code section. Note that the wire crimp tail contacts can only be ordered as separate items by part numbers.

Code	Profile	Description	Part No.	H Dim.	Board Thk.
000	F	Coined Tail Formed 90° after installing (Max. 0236 Diag.)	60 8223 0223 60 8223 0213		.080 .062
000		Coined Tail Formed 90° after installing (Max. 0236 Diag.)	60 8223 0243 60 8223 0253		.093
722		Wire Hole Tail (.032 x .050)	60 8200 1613	.162	
721	=>-	P.C. Tail .020 Sq.	60 8200 1623	.228	
736	=	P.C. Tail .020 Sq.	60 8200 1633	.259	
737		P.C. Tail .020 Sq.	60 8200 1643	.541	
753	i	P.C. Tail .020 Sq.	60 8200 1653	.103	
771		P.C. Tail .020 Sq.	60 8200 1663	.462	
000	-	Crimp Contact (Reel 3000) 22-30 AWG	60 8216 0323		
000	230-4	Crimp Contact (Loose) 22-30 AWG	60 8216 0313		
491	=36	Wrappable/Removable Contact (.025 Sq.)	60 8216 0413	.560	

			Accessories	
Insulator Type	Variation	Contact Style	Guide Pins Sockets (R)	Board Thickness
			Keying	
Male (Exposed Contacts)	001	Formed Contact Terminal	Х	.080 2.03 .062 1.57
	002	PC Terminal	Х	
		Wire Hole Terminal	Х	
		PC Straight Terminal	X	
	003	Crimp Contact	X	
		Wrappable Removable	X	
	004	Formed Contact Terminal	X	.093 2.36
Female (Exposed Contacts)	901	Formed Contact Terminal	х	.080 2.03 .062 1.57
	902	PC Terminal	Х	
		Wire Hole Terminal	X	
		PC Straight Terminal	X	
	903	Crimp Contact	X	
		Wrappable Removable	X	
	904	Formed Contact Terminal	X	.093 2.36

Accessories

