

MICRO-CRIMP RECTANGULAR CONNECTORS

Series 793 Dual-Bay



793-002

Receptacle, Panel Mount, Horizontal, Crimp

- ◆ Rear panel mounting
- ◆ Pin contacts
- ◆ Crimp termination

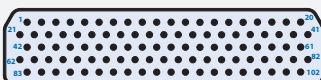


Dual bay blind mating. Space-saving 793-002 receptacle features high-density, high current and high frequency capabilities, saves size and weight compared to legacy rack-and-panel types. Machined scoop-proof shell has groove for attaching backshell. Size 23 contacts are included with connector; power contacts (#8, #12 or #16) or coaxial RF contacts (#12 and #16) are ordered separately. Connectors become non-scoop proof at parallel horizontal angles of entry from 16°–47°.

- Aerospace-grade high-density rack-and-panel connector
- Dual bay horizontal
- Environmental
- M39029-type crimp, rear-release contacts

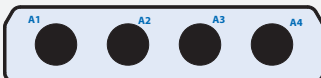
INSERT ARRANGEMENTS

Identification numbers are mating face of receptacle (pin) connector



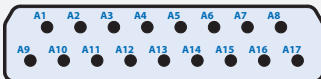
102

102 #23 Contacts



4W4

4 #8 Contacts



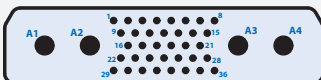
17W17

17 #16 Contacts



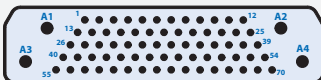
68W2

66 #23, 2 #12 Contacts



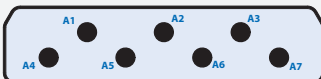
40W4

36 #23, 4 #12 Contacts



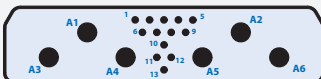
74W4

70 #23, 4 #16 Contacts



7W7

7 #12 Contacts



19W6

13 #23, 6 #12 Contacts

HOW TO ORDER

Sample Part Number		793-002P	A4W4	B102	M	E	B	B
Basic Part Number	793-002P		Receptacle, Pin Contacts					
Bay "A" Insert Arr.	A102 A4W4 A17W17	A68W2 A40W4 A74W4	A7W7 A19W6					
Bay "B" Insert Arr.	B102 B4W4 B17W17	B68W2 B40W4 B74W4	B7W7 B19W6					
Shell Finish	M Electroless Nickel MT Nickel / PTFE N Olive Drab Cadmium TZ Tin-Zinc ZR Black Zinc-Nickel							
EMI Springs	E EMI Springs N No EMI Springs							
Hardware Option	P Female Jackposts G Guide Pins <i>For blind mating</i> B Guide Bushings <i>For blind mating</i>							
Polarization Key Option	Enter Letter Designator for Position A, B, C , or D per Mod Code 1502 (see page D-5 for details) Omit for none							

TABLE 1 HARDWARE OPTION



RATINGS

- Voltage (DWV): size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- Current: #23 5A, #16 13A, #12 23A, #8 46A
- Operating temperature: -65 to +150 °C
- Durability: 500 mating cycles
- Shock: 300 g
- Vibration: 20 g random
- Altitude immersion: 75,000 feet
- Ingress protection: IP67

CONSTRUCTION

- Contacts: Copper alloy, gold over nickel finish
- Shell: Aluminum
- Insulators: High performance thermoplastic
- Ground spring: BeCu, electroless nickel plated
- Wire grommet, face seal: Fluorosilicone/silicone blend
- Contact retaining clip: Beryllium copper, unplated
- Hardware: Stainless steel

SERIES
793
Dual-Bay

Receptacle, Panel Mount, Horizontal, Crimp

- ◆ Rear panel mounting
- ◆ Pin contacts
- ◆ Crimp termination

[illegible]

Technical drawing of a mechanical part with dimensions in inches and millimeters. The drawing shows a cross-section of a cylindrical component with various features and tolerances.

Key dimensions and features:

- Overall length: 4.100 (104.14) 3X
- Distance from left face to center of first hole: 3.744 ± .002 (95.10 ± 0.05)
- Distance from left face to center of second hole: 3.424 ± .002 (86.97 ± 0.05)
- Radius of first hole: R.160 (4.06) 2X
- Radius of second hole: R.160 (4.06) 2X
- Radius of third hole: R.094 (1.88) 2X
- Radius of fourth hole: R.094 (1.88) 2X
- Radius of fifth hole: R.094 (1.88) 2X
- Radius of sixth hole: R.094 (1.88) 2X
- Radius of seventh hole: R.094 (1.88) 2X
- Radius of eighth hole: R.094 (1.88) 2X
- Radius of ninth hole: R.094 (1.88) 2X
- Radius of tenth hole: R.094 (1.88) 2X
- Radius of eleventh hole: R.094 (1.88) 2X
- Radius of twelfth hole: R.094 (1.88) 2X
- Radius of thirteenth hole: R.094 (1.88) 2X
- Radius of fourteenth hole: R.094 (1.88) 2X
- Radius of fifteenth hole: R.094 (1.88) 2X
- Radius of sixteenth hole: R.094 (1.88) 2X
- Radius of seventeenth hole: R.094 (1.88) 2X
- Radius of eighteenth hole: R.094 (1.88) 2X
- Radius of nineteenth hole: R.094 (1.88) 2X
- Radius of twentieth hole: R.094 (1.88) 2X
- Radius of twenty-first hole: R.094 (1.88) 2X
- Radius of twenty-second hole: R.094 (1.88) 2X
- Radius of twenty-third hole: R.094 (1.88) 2X
- Radius of twenty-fourth hole: R.094 (1.88) 2X
- Radius of twenty-fifth hole: R.094 (1.88) 2X
- Radius of twenty-sixth hole: R.094 (1.88) 2X
- Radius of twenty-seventh hole: R.094 (1.88) 2X
- Radius of twenty-eighth hole: R.094 (1.88) 2X
- Radius of twenty-ninth hole: R.094 (1.88) 2X
- Radius of thirtieth hole: R.094 (1.88) 2X
- Radius of thirty-first hole: R.094 (1.88) 2X
- Radius of thirty-second hole: R.094 (1.88) 2X
- Radius of thirty-third hole: R.094 (1.88) 2X
- Radius of thirty-fourth hole: R.094 (1.88) 2X
- Radius of thirty-fifth hole: R.094 (1.88) 2X
- Radius of thirty-sixth hole: R.094 (1.88) 2X
- Radius of thirty-seventh hole: R.094 (1.88) 2X
- Radius of thirty-eighth hole: R.094 (1.88) 2X
- Radius of thirty-ninth hole: R.094 (1.88) 2X
- Radius of fortieth hole: R.094 (1.88) 2X
- Radius of forty-first hole: R.094 (1.88) 2X
- Radius of forty-second hole: R.094 (1.88) 2X
- Radius of forty-third hole: R.094 (1.88) 2X
- Radius of forty-fourth hole: R.094 (1.88) 2X
- Radius of forty-fifth hole: R.094 (1.88) 2X
- Radius of forty-sixth hole: R.094 (1.88) 2X
- Radius of forty-seventh hole: R.094 (1.88) 2X
- Radius of forty-eighth hole: R.094 (1.88) 2X
- Radius of forty-ninth hole: R.094 (1.88) 2X
- Radius of fiftieth hole: R.094 (1.88) 2X
- Radius of fifty-first hole: R.094 (1.88) 2X
- Radius of fifty-second hole: R.094 (1.88) 2X
- Radius of fifty-third hole: R.094 (1.88) 2X
- Radius of fifty-fourth hole: R.094 (1.88) 2X
- Radius of fifty-fifth hole: R.094 (1.88) 2X
- Radius of fifty-sixth hole: R.094 (1.88) 2X
- Radius of fifty-seventh hole: R.094 (1.88) 2X
- Radius of fifty-eighth hole: R.094 (1.88) 2X
- Radius of fifty-ninth hole: R.094 (1.88) 2X
- Radius of sixtieth hole: R.094 (1.88) 2X
- Radius of sixty-first hole: R.094 (1.88) 2X
- Radius of sixty-second hole: R.094 (1.88) 2X
- Radius of sixty-third hole: R.094 (1.88) 2X
- Radius of sixty-fourth hole: R.094 (1.88) 2X
- Radius of sixty-fifth hole: R.094 (1.88) 2X
- Radius of sixty-sixth hole: R.094 (1.88) 2X
- Radius of sixty-seventh hole: R.094 (1.88) 2X
- Radius of sixty-eighth hole: R.094 (1.88) 2X
- Radius of sixty-ninth hole: R.094 (1.88) 2X
- Radius of seventieth hole: R.094 (1.88) 2X
- Radius of seventy-first hole: R.094 (1.88) 2X
- Radius of seventy-second hole: R.094 (1.88) 2X
- Radius of seventy-third hole: R.094 (1.88) 2X
- Radius of seventy-fourth hole: R.094 (1.88) 2X
- Radius of seventy-fifth hole: R.094 (1.88) 2X
- Radius of seventy-sixth hole: R.094 (1.88) 2X
- Radius of seventy-seventh hole: R.094 (1.88) 2X
- Radius of seventy-eighth hole: R.094 (1.88) 2X
- Radius of seventy-ninth hole: R.094 (1.88) 2X
- Radius of eightieth hole: R.094 (1.88) 2X
- Radius of eighty-first hole: R.094 (1.88) 2X
- Radius of eighty-second hole: R.094 (1.88) 2X
- Radius of eighty-third hole: R.094 (1.88) 2X
- Radius of eighty-fourth hole: R.094 (1.88) 2X
- Radius of eighty-fifth hole: R.094 (1.88) 2X
- Radius of eighty-sixth hole: R.094 (1.88) 2X
- Radius of eighty-seventh hole: R.094 (1.88) 2X
- Radius of eighty-eighth hole: R.094 (1.88) 2X
- Radius of eighty-ninth hole: R.094 (1.88) 2X
- Radius of ninetieth hole: R.094 (1.88) 2X
- Radius of ninety-first hole: R.094 (1.88) 2X
- Radius of ninety-second hole: R.094 (1.88) 2X
- Radius of ninety-third hole: R.094 (1.88) 2X
- Radius of ninety-fourth hole: R.094 (1.88) 2X
- Radius of ninety-fifth hole: R.094 (1.88) 2X
- Radius of ninety-sixth hole: R.094 (1.88) 2X
- Radius of ninety-seventh hole: R.094 (1.88) 2X
- Radius of ninety-eighth hole: R.094 (1.88) 2X
- Radius of ninety-ninth hole: R.094 (1.88) 2X
- Radius of one hundred hole: R.094 (1.88) 2X
- Radius of one hundred and first hole: R.094 (1.88) 2X
- Radius of one hundred and second hole: R.094 (1.88) 2X
- Radius of one hundred and third hole: R.094 (1.88) 2X
- Radius of one hundred and fourth hole: R.094 (1.88) 2X
- Radius of one hundred and fifth hole: R.094 (1.88) 2X
- Radius of one hundred and sixth hole: R.094 (1.88) 2X
- Radius of one hundred and seventh hole: R.094 (1.88) 2X
- Radius of one hundred and eighth hole: R.094 (1.88) 2X
- Radius of one hundred and ninth hole: R.094 (1.88) 2X
- Radius of one hundred and tenth hole: R.094 (1.88) 2X
- Radius of one hundred and eleventh hole: R.094 (1.88) 2X
- Radius of one hundred and twelfth hole: R.094 (1.88) 2X
- Radius of one hundred and thirteenth hole: R.094 (1.88) 2X
- Radius of one hundred and fourteenth hole: R.094 (1.88) 2X
- Radius of one hundred and fifteenth hole: R.094 (1.88) 2X
- Radius of one hundred and sixteenth hole: R.094 (1.88) 2X
- Radius of one hundred and seventeenth hole: R.094 (1.88) 2X
- Radius of one hundred and eighteenth hole: R.094 (1.88) 2X
- Radius of one hundred and nineteenth hole: R.094 (1.88) 2X
- Radius of one hundred and twentieth hole: R.094 (1.88) 2X
- Radius of one hundred and twenty-first hole: R.094 (1.88) 2X
- Radius of one hundred and twenty-second hole: R.094 (1.88) 2X
- Radius of one hundred and twenty-third hole: R.094 (1.88) 2X
- Radius of one hundred and twenty-fourth hole: R.094 (1.88) 2X
- Radius of one hundred and twenty-fifth hole: R.094 (1.88) 2X
- Radius of one hundred and twenty-sixth hole: R.094 (1.88) 2X
- Radius of one hundred and twenty-seventh hole: R.094 (1.88) 2X
- Radius of one hundred and twenty-eighth hole: R.094 (1.88) 2X
- Radius of one hundred and twenty-ninth hole: R.094 (1.88) 2X
- Radius of one hundred and thirtieth hole: R.094 (1.88) 2X
- Radius of one hundred and thirty-first hole: R.094 (1.88) 2X
- Radius of one hundred and thirty-second hole: R.094 (1.88) 2X
- Radius of one hundred and thirty-third hole: R.094 (1.88) 2X
- Radius of one hundred and thirty-fourth hole: R.094 (1.88) 2X
- Radius of one hundred and thirty-fifth hole: R.094 (1.88) 2X
- Radius of one hundred and thirty-sixth hole: R.094 (1.88) 2X
- Radius of one hundred and thirty-seventh hole: R.094 (1.88) 2X
- Radius of one hundred and thirty-eighth hole: R.094 (1.88) 2X
- Radius of one hundred and thirty-ninth hole: R.094 (1.88) 2X
- Radius of one hundred and fortieth hole: R.094 (1.88) 2X
- Radius of one hundred and forty-first hole: R.094 (1.88) 2X
- Radius of one hundred and forty-second hole: R.094 (1.88) 2X
- Radius of one hundred and forty-third hole: R.094 (1.88) 2X
- Radius of one hundred and forty-fourth hole: R.094 (1.88) 2X

	Contact Size	Pin Contact Part No.	AWG Wire Size
Size 23 contacts are included with connector. <i>Size 16, 12, and 8 contacts are not included and are ordered separately.</i> See "Contacts and Tools" section for crimp tool info and coaxial contact ordering information.	23	809-001	22 – 28
	16	809-110 (M39029/58-364)	16 – 20
	12	809-112 (M39029/58-365)	12 – 14
	8	850-014F	8

Plug

Receptacle

Use backshell part number **799-015** (Size M). Two backshells are required per connector. Two piece backshell has lip to lock into groove on connector. Available in top entry, side entry and 45° entry.