Combo
Dual Port
Series

PROFESSIONAL QUALITY PRINTED BOARD MOUNT COMBINATION POWER AND SIGNAL CONTACT DUAL PORT VERTICALLY STACKED CONNECTOR ASSEMBLY FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

Power and Signal Contacts

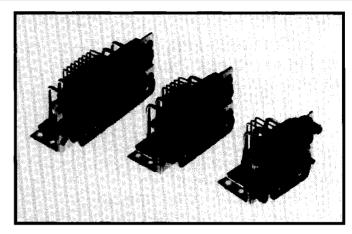
U.L. Recognized File #E49351

CSA Recognized File #LR54219

Telecommunication U.L. File #14095

The Combo-Dual Port connector series offers several combinations of power and signal contacts within the same connector assembly. Fifteen different combinations of power and signal contact stacked assemblies are available within four standard shell sizes. The connector assembly can be partially populated with either signal or power contacts installed in the connector bodies to customer selected contact positions. The stacked connectors may be spaced apart to two dimensional spacings.

On special order, the 90° printed board mount 15 ampere contacts may be replaced with size 8 power, shielded or high voltage contacts



having crimp or solder cup terminations. Signal contacts remain in dual port configuration.

Mounting angle brackets can be ordered riveted to the connector by specifying R2, R6, R7 and R8 options. Locking systems are available utilizing 4-40 threaded jackscrew systems, polarized or non-polarized, or with a quick-release vibration lock system for either front or rear panel mounted connectors.

Combo-Dual Port Series connectors comply with the dimensional requirements of IEC 807-2 and DESC 85039.

COMBO-DUAL PORT TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulator: Polyester, glass filled per MIL-M-24519, UL

94V-0, blue color.

Signal Contacts: Male contacts-precision machined cop-

per alloy. Female contacts-precision machined high tensile phosphor bronze.

Plating: Gold flash over nickel plate.

Power Contacts: Male contacts-precision machined copper alloy. Female contacts-precision

per alloy. Female contacts-precision machined high tensile copper alloy.

Plating: Gold flash over nickel.

Shells: Steel or brass with tin plate or zinc plate with

dichromate seal.

Mounting Spacers

and Brackets: Steel or brass with tin plate or zinc with

dichromate seal.

Cross Bar: Nylon, UL 94V-0, black color.

Push-On Fasteners: Beryllium copper, tin plated.

Jackscrew Systems: Steel with clear zinc plate or zinc plate

with dichromate seal.

Vibration Lock Systems: Lock tabs, steel with nickel plate.

ELECTRICAL CHARACTERISTICS:

Signal Contacts:

7.5 amperes nominal.

Resistance:

0.008 ohms maximum.

Power Contacts: 15 ampere nominal for 90° board mount. 10, 20 and 40 ampere nominal are removable contacts with solder or crimp

terminations.

Initial Contact

Resistance: 0.005 ohms maximum.

Proof Voltage: Insulator Resistance: Clearance and Creepage

1000 V r.m.s. 5 G ohms.

Distance (minimum): Working Voltage:

0.039 inch (1.0mm) 300 V r.m.s.

MECHANICAL CHARACTERISTICS:

Signal Contacts:

Size 20 male contacts-0.040 inch (1.0mm) diameter. Female contact-rugged open entry design.

Contact Retention

In Insulator: 9
Contact Terminations: P

9 lbs. (40N)

Printed board mount with 90° terminations supported by alignment bar. Termination diameter 0.028 inch

(0.71mm).

Power Contacts:

Size 8 male contact-0.142 inch (3.61mm) diameter. Female contact-open entry and closed entry options.

Contact Retention

In Insulator:

Contact Terminations:

22 lbs. (92N)

Printed board mount with 90° terminations of 0.078 inch (1.98mm) diameter. Size 8 removable solder cup contacts with wire

hole diameters of 0.188 inch (4.78mm), 0.112 inch (2.84mm) and 0.069 inch

(1.75mm).

Shells: Male connector shells may be dimpled for

EMI/ESD ground paths.

Polarization: Trapezoidally shaped shells and polar-

ized jackscrews.

Mounting Bracket

Riveted to Connector:

Prince Pr

4-40 threads or 4-40 threads with nylon lock insert.

lock insert.

Mounting To Printed Board: Locking Systems:

Rapid installation push-on fasteners.

Jackscrews and vibration locking system for either front or rear panel mounted

connectors.

Mechanical Operations: 500 operations minimum per IEC 512-5.

CLIMATIC CHARACTERISTICS:

Temperature Range:

-55°C to +125°C.

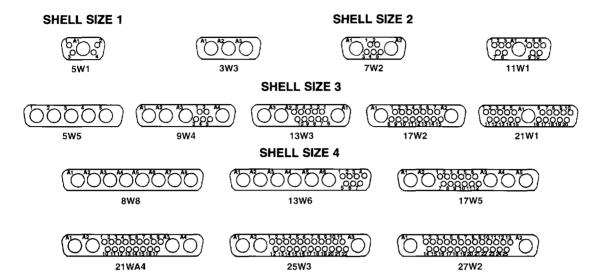
Damp Heat, Steady State: 10 days.



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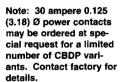
CONTACT VARIANTS

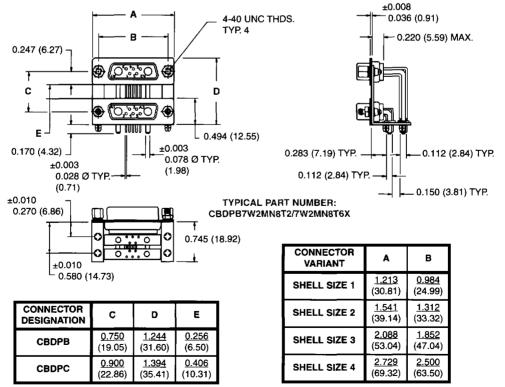
FACE VIEW OF MALE OR REAR VIEW OF FEMALE



90° PRINTED BOARD MOUNT CONNECTOR 4 ROW CONNECTOR UNIT, 0.283 (7.19) CONTACT EXTENSION

15 AMPERE MAXIMUM RATED POWER CONTACTS





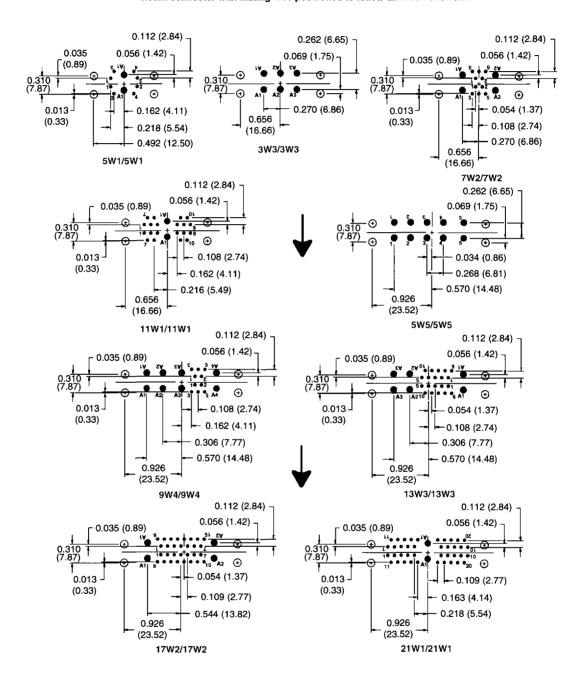
Note: Printed board power contacts (size 8) may be replaced with a size 8 removable power, shielded or high voltage contact having solder or crimp terminations.

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90° PRINTED BOARD CONTACT HOLE PATTERN

Hole identification shown is for female connector over male connector.

Mount connector with mating face positioned to follow direction of arrow.



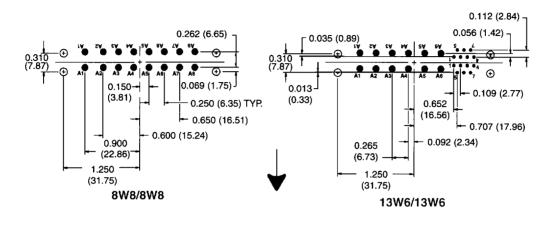
Suggest 0.045 (1.14) Ø hole for signal contact termination positions. Suggest 0.098 (2.49) Ø hole for 0.078 (1.98) Ø power contact termination positions. Suggest 0.123 ± 0.003 (3.12) Ø hole for mounting connector with push-on fasteners.

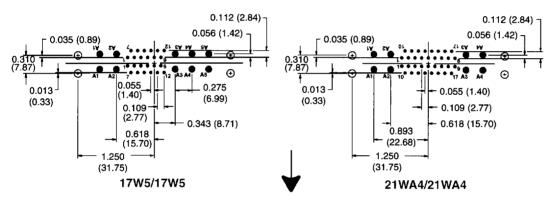
Mounting holes must move 0.020 (0.51) ±0.010 opposite direction of arrow for use of unriveted mounting bracket with connectors.

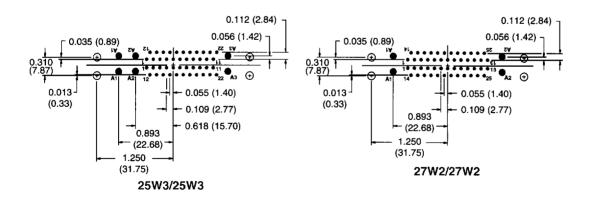
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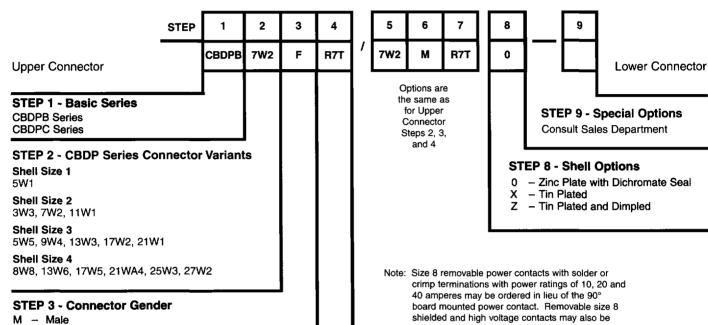
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CBDP Series

PROFESSIONAL QUALITY PRINTED BOARD MOUNT COMBINATION POWER AND SIGNAL CONTACT DUAL PORT VERTICALLY STACKED CONNECTOR ASSEMBLY FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

ORDERING INFORMATION - CODE NUMBERING SYSTEM

Specify Complete Connector By Following Steps 1 Through 9 Insert "0" When Step Is Not Used



STEP 4 - Locking, Polarizing, Mounting and Push-on **Fastener Systems**

0 - None

- Female

- R2 Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Thread, Fixed Female Jackscrews and Cross Bar
- R6 Bracket, Mounting, 90° Metal, Swaged to Connector with 0.120 (3.05) Ø Mounting Hole with Cross Bar
- R7 Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Threads with Cross Bar
- R8 Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Locknut with Cross Bar
- N2 Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Thread, Fixed Female Jackscrews with Cross Bar and Push-On Fastener
- N6 Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Threads with Cross Bar and Push-on Fastener
- N7 Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Threads with Cross Bar and Push-on Fastener
- N8 Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Locknut with Cross Bar and Push-on Fastener
- T Fixed Female Jackscrews
- T2 Fixed Female Jackscrews
- T6 Fixed Male and Female Polarized Jackscrews

ordered separately in lieu of the power contact. See pages 16 through 20 for contact part numbers.