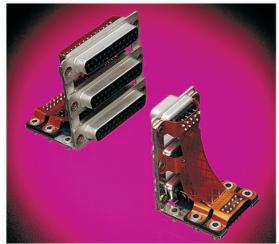


Dual Port Connectors











ABOUT US

Founded in 1966, Positronic Industries is a vertically integrated manufacturer of high quality interconnect products. Positronic has earned the worldwide reputation as a service oriented, quick-reaction, top quality connector supplier. We are committed to maintaining this reputation by continuous implementation of our Complete Capability concept.

COMPLETE CAPABILITY

Design & Development

- Designs new connectors and modifies existing connectors to meet industry requirements
- · Continuously conducts marketing studies to identify industry needs for new products
- Ongoing interest in unique connector designs

Tooling

- Tooling support for all manufacturing areas within company
- Provides 80% of new tooling, punch press dies, molds, jigs and fixtures used at Positronic factory locations worldwide

Machining

- Automatic screw machines produce finely crafted contacts and hardware for connector bodies
- Trained technicians operate machines from Tornos, Bechler and Brown & Sharpe

Molding

Plating

- Molds all plastic connector components such as insulators, hoods, angle brackets and more
- Overmold capability available

- Applies gold and other metal finishes to connector components to any required thickness
- Plating conforms to all military specifications

Quality Assurance Lab

- Quality assurance system certified to ISO 9001
- Maintains aggressive TQM program
- Able to test to IEC, EIA, UL, MIL-DTL-24308, MIL-DTL-28748, MIL-C-39029 and MIL-C-85049 requirements

Finished Stock Inventory

- Each main factory location maintains a large inventory of connector components and accessories
- Same day shipments available on many standard connector products
- Stocking agreements available for qualified customers

Worldwide Sales & Service

- Responsive attitude toward customer needs
- Fully trained sales staff located worldwide





Molding



Finished Stock Inventory

Products described within this catalog may be protected by one or more of the following US. patents:

> #4,721,472 #4,900,261 #5,255,580 #5,329,697 #6,835,079 #6.260.268

Patented in Canada, 1992 Other Patents Pending

Unless otherwise specified, dimensional tolerances are:

- 1] ±0.001 inches [0.03 mm] for male contact mating diameters.
- 2] ±0.003 inches [0.08 mm] for contact termination diameters.
- ±0.005 inches [0.13 mm] for all other diameters.
- ±0.015 inches [0.38 mm] for all other dimensions.

Positronic Industries believes the data contained herein to be reliable. Since the technical information is given free of charge, the User employs such information at his own discretion and risk. Positronic Industries assumes no responsibility for results obtained or damages incurred from use of such information in whole or in part.

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DP MDP Series

PROFESSIONAL QUALITY PRINTED BOARD MOUNT DUAL PORT VERTICALLY STACKED CONNECTOR ASSEMBLY

FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

Size 20 Contacts, Two Connectors Vertically Stacked and Assembled As a Single Connector Unit

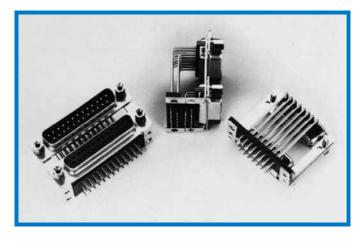
Professional Quality
Connectors
IEC Publication 807-2
Performance Level Two

U.L. Recognized CSA Recognized File #E49351 File #LR54219 Telecommunication U.L. File #14098

The Dual Port Series is a utilization of two connectors, vertically stacked and assembled into a single connector unit, which permits saving of panel and printed board space. Final assembly costs are reduced by condensing two assembly movements into one movement.

Dual Port Series connectors are professional quality connectors recommended for use in sheltered, non-corrosive indoor or outdoor environments having normal ventilation, but without temperature or humidity controls.

Connector contact variants are 9, 15, 25, 29, 37 and 50. Connector genders may be mixed, i.e., one male and one female connector within one Dual Port assembly. The two connectors may be spaced apart to three standard dimensional spacings to accommodate various dimensions of discrete hoods or molded hood assemblies. The connector may also be partially populated with contacts which are installed in the connector body to customer selected contact positions, thereby reducing connector costs.



Dual Port Series connectors are offered with two printed board contact hole patterns. One pattern is dimensional in inches and the other pattern is dimensioned in millimeters. These patterns are commonly known as Inch Footprints and Metric Footprints.

Mounting angle brackets can be ordered riveted to the connector by specifying R2, R6, R7 or R8 options. These options provide for labor saving ease of connector mounting to the printed board and also permit rapid jackscrew installation.

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.

Dual Port Series connectors comply with the dimensional and performance requirements of IEC 807-2 Performance Level Two and dimensional requirements of MIL-DTL-24308. Dual Port Series connectors also meet the interface connection requirements for EIA RS 232 and RS 449, and the CCITT X.24 recommendations.

DUAL PORT SERIES TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulator: Glass filled polyester per ASTM D5927,

UL 94V-0, black color.

Contacts: Male contacts – precision machined brass alloy. Female contacts – precision

brass alloy. Female contacts – precision machined high tensile phosphor bronze.

Contact Plating: Gold flash over nickel plate. Other finishes

available upon request.

Shells: Steel or brass with tin plate; zinc plate

with dichromate seal. Other materials and

finishes available upon request.

Mounting Spacers

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

dichromate seal.

Push-On Fasteners: Beryllium copper with tin plate.

Jackscrew Systems: Steel with zinc plate and dichromate

seal, or clear zinc plate.

Vibration Lock Systems: Slide lock and lock tabs, steel with nickel

plate.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating: 5 amperes.

Initial Contact Resistance: 0.008 ohms maximum.

Proof Voltage: 1,000 V r.m.s. **Insulator Resistance:** 5 G ohms.

Clearance and Creepage

Distance [minimum]: 0.039 inch [1.0 mm].

Working Voltage: 300 V r.m.s.

MECHANICAL CHARACTERISTICS:

Fixed Contacts: Size 20 contacts, male contact – 0.040

inch [1.02 mm] diameter. Female contact

- rugged open entry design.

Contact Retention in Insulator: 6 lbs. [27 N].

Contact Terminations: Printed board mount with 90°

terminations supported in footprint pattern by a plastic cross bar. Termination diameter 0.028 inch [0.71

mm] and 0.024 [0.60 mm].

Shells: Male shells may be dimpled for EMI/ESD

ground paths.

Polarization: Trapezoidally shaped shells and

polarized jackscrews.

Mounting Bracket

Riveted to Connector: Riveted fasteners with 0.120 inch [3.05

mm] diameter clearance hole, 4-40 threads, or 4-40 threads with polyester

lock insert.

Mounting to Printed Board: Rapid installation push-on fasteners.

Locking Systems: Jackscrews and vibration locking

systems 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.



FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

CONTACT VARIANTS

FACE VIEW OF MALE OR REAR VIEW OF FEMALE

(0°0°0°0 0°0°0°0

DP*9/MDP*9

020304050607080 00000000 9101112131415

DP*15/MDP*15

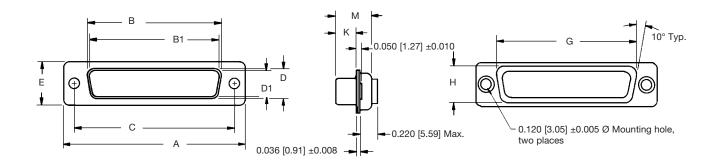
DP*25/MDP*25

DP*29/MDP*29

DP*37/MDP*37

DP*50/MDP*50

STANDARD SHELL ASSEMBLY

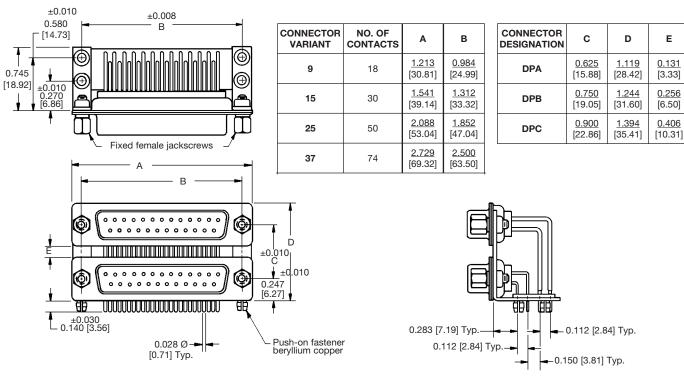


CONNECTOR VARIANT SIZES	A ±0.015	B ±0.005	B1 ±0.005	C ±0.005	D ±0.005	D1 ±0.005	E ±0.015	G ±0.010	H ±0.010	K ±0.005	M ±0.010
9 M	1.213 [30.81]		<u>0.666</u> [16.92]	<u>0.984</u> [24.99]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	0.233 [5.92]	<u>0.422</u> [10.72]
9 F	1.213 [30.81]	<u>0.643</u> [16.33]		<u>0.984</u> [24.99]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
15 M	1.541 [39.14]		<u>0.994</u> [25.25]	1.312 [33.32]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
15 F	1.541 [39.14]	<u>0.971</u> [24.66]		1.312 [33.32]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
25 M	<u>2.088</u> [53.04]		1.534 [38.96]	<u>1.852</u> [47.04]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>1.625</u> [41.28]	<u>0.422</u> [10.72]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
25 F	2.088 [53.04]	1.511 [38.38]		<u>1.852</u> [47.04]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>1.625</u> [41.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
29 M	1.770 [44.96]		1.274 [32.36]	1.534 [38.96]		<u>0.450</u> [11.43]	<u>0.605</u> [15.37]	1.322 [33.58]	<u>0.539</u> [13.69]	<u>0.217</u> [5.51]	<u>0.426</u> [10.82]
29 F	1.770 [44.96]	1.251 [31.78]		1.534 [38.96]	<u>0.431</u> [10.95]		<u>0.605</u> [15.37]	1.322 [33.58]	<u>0.539</u> [13.69]	<u>0.237</u> [6.02]	<u>0.429</u> [10.90]
37 M	2.729 [69.32]		2.182 [55.42]	2.500 [63.50]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>2.272</u> [57.71]	<u>0.422</u> [10.72]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
37 F	2.729 [69.32]	2.159 [54.84]		2.500 [63.50]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>2.272</u> [57.71]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
50 M	2.635 [66.93]		<u>2.079</u> [52.81]	<u>2.406</u> [61.11]		<u>0.441</u> [11.20]	<u>0.605</u> [15.37]	<u>2.178</u> [55.32]	<u>0.534</u> [13.56]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
50 F	2.635 [66.93]	<u>2.064</u> [52.43]		<u>2.406</u> [61.11]	<u>0.423</u> [10.74]		<u>0.605</u> [15.37]	<u>2.178</u> [55.32]	<u>0.534</u> [13.56]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]

FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

90° PRINTED BOARD MOUNT CONNECTOR

4 ROW CONNECTOR UNIT, 0.283 [7.19] CONTACT EXTENSION

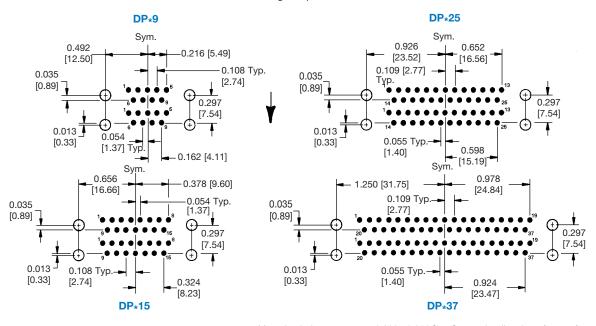


Typical Part Number: DPA25MN8T2/25MN8T2X

CONTACT HOLE PATTERN

Hole identification shown is for male connector, use mirror image for female connector.

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



DIMENSIONS ARE IN INCHES [MILLIMETERS]. ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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

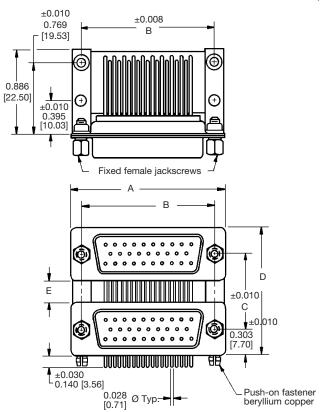
Suggest 0.045 \pm 0.002 [1.14] Ø hole for contact termination positions. Suggest 0.123 \pm 0.003 [3.12] Ø hole for mounting connector with push-on fasteners.



FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

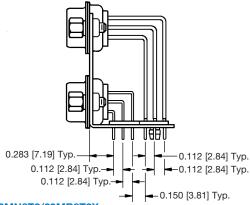
90° PRINTED BOARD MOUNT CONNECTOR

6 ROW CONNECTOR UNIT, 0.283 [7.19] CONTACT EXTENSION



CONNECTOR VARIANT	NO. OF CONTACTS	Α	В	
29	58	1.770 [44.96]	1.534 [38.96]	
50	100	2.635 [66.93]	<u>2.406</u> [61.11]	

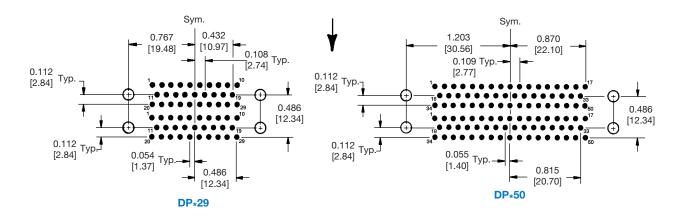
CONNECTOR DESIGNATION	С	D	E	
DPB	<u>0.750</u>	1.355	0.145	
	[19.05]	[34.42]	[3.68]	
DPC	0.900	1.505	0.295	
	[22.86]	[38.23]	[7.49]	



Typical Part Number: DPB29MN8T2/29MR8T2X

CONTACT HOLE PATTERN

Hole identification shown is for male connector, use mirror image for female connector. Mount connector with mating face positioned to follow direction of arrow.



Suggest 0.045 \pm 0.002 [1.14] Ø hole for contact termination positions.

Suggest 0.123 \pm 0.003 [3.12] Ø hole for mounting connector with push-on fasteners.

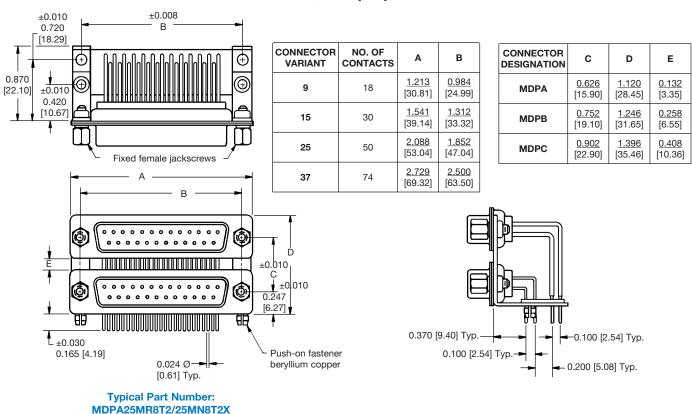
Mounting holes must move 0.020 \pm 0.010 [0.51] opposite direction of arrow for use of unriveted mounting bracket with connectors.



FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

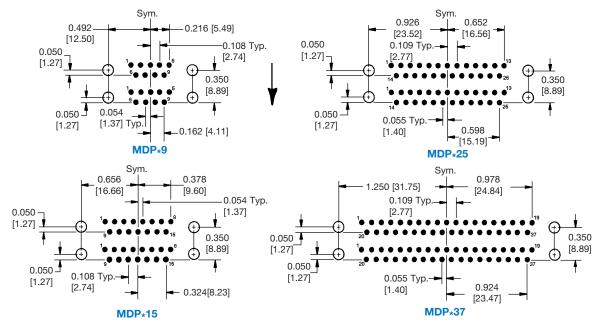
METRIC SYSTEM 90° PRINTED BOARD MOUNT CONNECTOR

4 ROW CONNECTOR UNIT, 0.370 [9.40] CONTACT EXTENSION



METRIC SYSTEM CONTACT HOLE PATTERN

Hole identification shown is for male connector, use mirror image for female connector. Mount connector with mating face positioned to follow direction of arrow.



DIMENSIONS ARE IN INCHES [MILLIMETERS]. ALL DIMENSIONS ARE SUBJECT TO CHANGE.

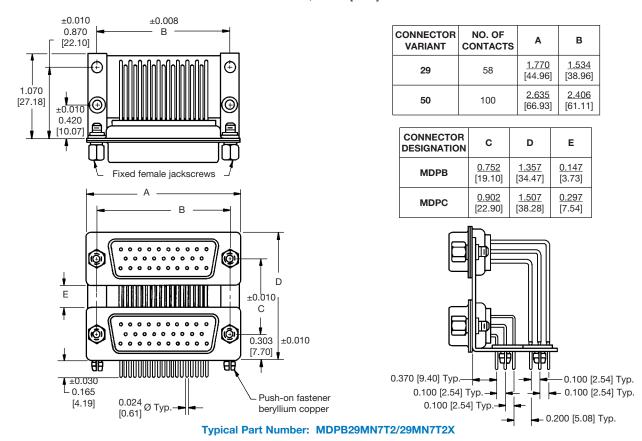
Suggest 0.039 \pm 0.002 [1.00] Ø hole for contact termination positions.

Suggest 0.123 \pm 0.003 [3.12] Ø hole for mounting connector with push-on fasteners.

FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

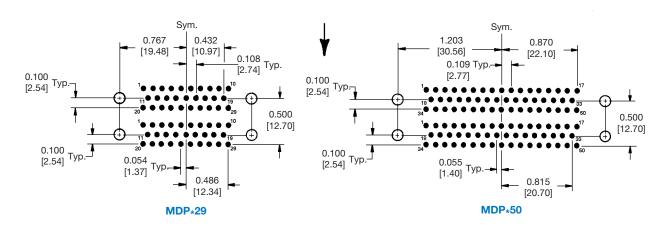
METRIC SYSTEM 90° PRINTED BOARD MOUNT CONNECTOR

6 ROW CONNECTOR UNIT, 0.370 [9.40] CONTACT EXTENSION



METRIC SYSTEM CONTACT HOLE PATTERN

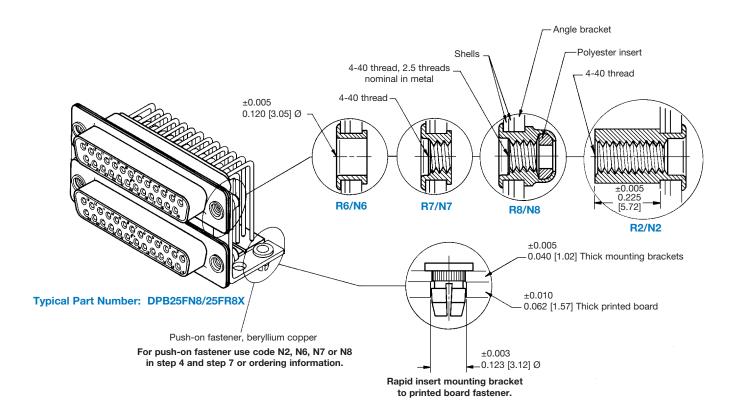
Hole identification shown is for male connector, use mirror image for female connector. Mount connector with mating face positioned to follow direction of arrow.

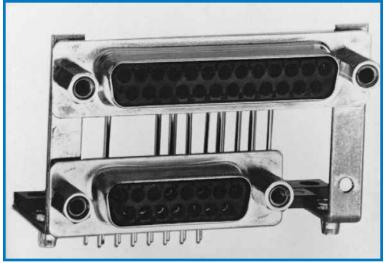


Suggest 0.039 \pm 0.002 [1.00] Ø hole for contact termination positions. Suggest 0.123 \pm 0.003 [3.12] Ø hole for mounting connector with push-on fasteners.



RIVETED ON MOUNTING BRACKETS AND PUSH-ON FASTENER





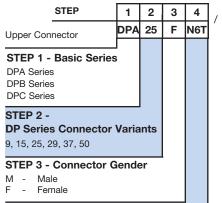




FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

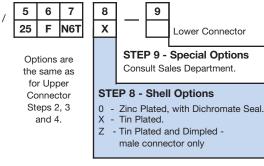
ORDERING INFORMATION – CODE NUMBERING SYSTEM

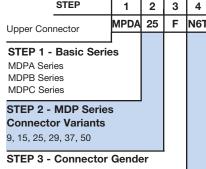
Specify Complete Connector By Following Steps 1 Through 9 Insert "0" When Step Is Not Used



STEP 4 - Locking, Polarizing, Mounting and Push-On Fastener Systems

- None
- R2 Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Threaded Fixed Female Jackscrews with 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
- N2 Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Threaded Fixed Female Jackscrews with Cross Bar and Push-on Fastener.
- N6 Bracket, Mounting, 90° Metal, Swaged to Connector with 0.120 [3.05] Ø Mounting Hole with Cross Bar with Push-on Fastener.
- N7 Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Threads with Cross Bar and with Push-on Fastener.
- N8 Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Locknut with Cross Bar and with Push-on Fastener.
- V3 Lock Tab, connector front panel mounted.
- Lock Tab, connector rear panel mounted.
- Fixed Female Jackscrews.
- Fixed Female Jackscrews.
- Fixed Male and Female Polarized Jackscrews





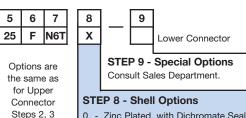
STEP

Μ Male

F Female

STEP 4 - Locking, Polarizing, Mounting and Push-On Fastener Systems

- None
- Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Threaded Fixed R2 Female Jackscrews with Cross Bar.
- Bracket, Mounting, 90° Metal, Swaged to Connector with 0.120 [3.05] Ø Mounting Hole with Cross Bar.
- Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Threads with Cross Bar.
- Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Locknut with Cross R8 Bar.
- N2 Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Threaded Fixed Female Jackscrews with Cross Bar and Push-on Fastener.
- N6 Bracket, Mounting, 90° Metal, Swaged to Connector with 0.120 [3.05] Ø Mounting Hole with Cross Bar with Push-on Fastener.
- N7 Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Threads with Cross Bar and with Push-on Fastener.
- N8 Bracket, Mounting, 90° Metal, Swaged to Connector with 4-40 Locknut with Cross Bar and with Push-on Fastener.
- Lock Tab. connector front panel mounted.
- Lock Tab, connector rear panel mounted.
- Fixed Female Jackscrews.
- Fixed Female Jackscrews.
- Fixed Male and Female Polarized Jackscrews.



- 0 Zinc Plated, with Dichromate Seal.
- X Tin Plated.

and 4.

Z - Tin Plated and Dimpled male connector only

High Density
Dual Port
Series

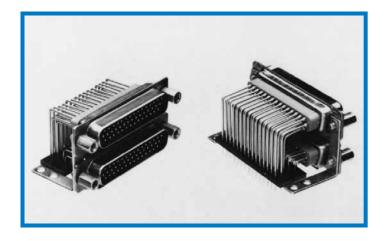
PROFESSIONAL QUALITY PRINTED BOARD MOUNT HIGH DENSITY DUAL PORT VERTICALLY STACKED CONNECTOR ASSEMBLY

FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

Size 22 Contacts,
Two Connectors Vertically
Stacked and Assembled
As a Single Connector Unit
Professional Quality
Connectors

U.L. Recognized File #E49351 CSA Recognized

File #LR54219
Telecommunication
U.L. File #14098



High Density Dual Port Series connectors utilize two high density connectors vertically stacked and assembled into a single connector unit, which permits saving of panel and printed board space, and decreases final assembly costs.

High Density Dual Port Series connectors are professional quality connectors recommended for use in sheltered, non-corrosive indoor and outdoor environments having normal ventilation.

Connector contact variants are 15, 26, 44 and 62. Connector genders can be mixed, i.e., one male and one female connector within one High Density Dual Port assembly. The two connectors may be

spaced apart to three standard dimensional spacings. The connector may also be partially populated with contacts which are installed in the connector body to customer selected contact positions.

Mounting angle brackets can be ordered riveted to the connector by specifying R2, R6, R7 or 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.

High Density Dual Port Series connectors comply with the dimensional requirements of MIL-DTL-24308.

HIGH DENSITY DUAL PORT SERIES TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulator: Glass filled polyester per ASTM D5927,

UL 94V-0, black color.

Contacts: Male and female contacts - precision

machined high tensile phosphor bronze.

Contact Plating: Gold flash over nickel plate. Other finishes

available upon request.

Shells: Steel with tin plate, or zinc plate with

dichromate seal. Other materials and

finishes available upon request.

Mounting Spacers

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

dichromate seal.

Push-On Fasteners: Beryllium copper with tin plate.

Jackscrew Systems: Steel with zinc plate and dichromate

seal, or clear zinc plate.

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

ELECTRICAL CHARACTERISTICS:

Contact Current Rating: 3 amperes.

Initial Contact Resistance: 0.010 ohms maximum.

Proof Voltage: 1,000 V r.m.s. **Insulator Resistance:** 5 G ohms.

Clearance and Creepage

Distance [minimum]: 0.039 inch [1.0 mm].

Working Voltage: 300 V r.m.s.

MECHANICAL CHARACTERISTICS:

Fixed Contacts: Size 22 contact, male contact – 0.030 inch

[0.76 mm] diameter. Female contact -

rugged open entry design.

Contact Retention in Insulator: 7 lbs. [31 N].

Contact Terminations: Printed board mount with 90°

terminations supported in footprint pattern by a plastic cross bar. Termination diameter 0.020 inch [0.51

nm].

Shells: Male shells may be dimpled for EMI/ESD

ground paths.

Polarization: Trapezoidally shaped shells and

polarized jackscrews.

Mounting Bracket

Riveted to Connector: Riveted fasteners with 0.120 inch [3.05

mm] diameter clearance hole, 4-40 threads, or 4-40 threads with Polyester

lock insert.

Mounting to Printed Board: Rapid installation push-on fasteners.

Locking Systems: Jackscrews and vibration

Jackscrews and vibration locking systems for either front or rear panel

mounted connectors.

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

CLIMATIC CHARACTERISTICS:

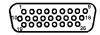
Temperature Range: -55°C to +125°C.

FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

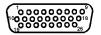
CONTACT VARIANTS

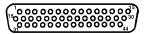
FACE VIEW OF MALE OR REAR VIEW OF FEMALE











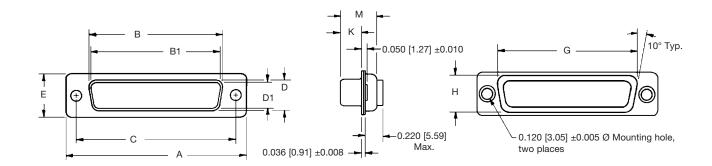
DD*15/15

DD*26/26

DD*44/44

DD*62/62

STANDARD SHELL ASSEMBLY

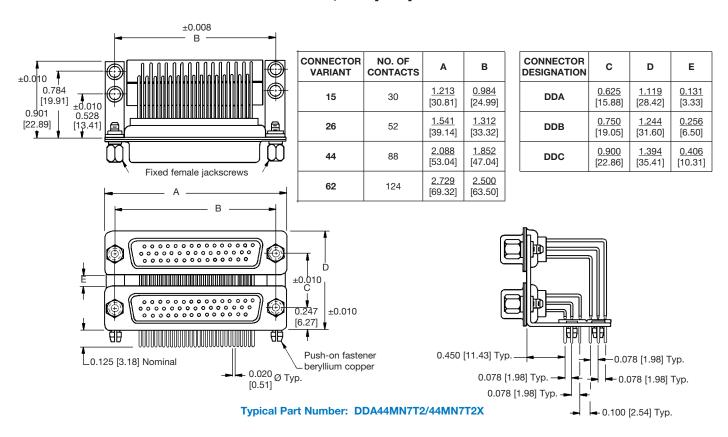


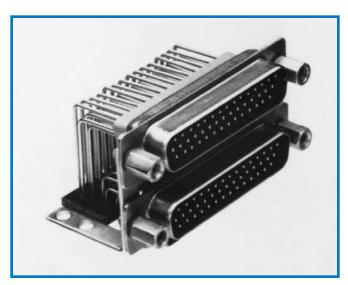
CONNECTOR VARIANT SIZES	A ±0.015	B ±0.005	B1 ±0.005	C ±0.005	D ±0.005	D1 ±0.005	E ±0.015	G ±0.010	H ±0.010	K ±0.005	M ±0.010
15M/15M	1.213 [30.81]		<u>0.666</u> [16.92]	<u>0.984</u> [24.99]		0.329 [8.36]	<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
15F/15F	1.213 [30.81]	<u>0.643</u> [16.33]		<u>0.984</u> [24.99]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
26M/26M	1.541 [39.14]		<u>0.994</u> [25.25]	1.312 [33.32]		0.329 [8.36]	<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
26F/26F	1.541 [39.14]	0.971 [24.66]		1.312 [33.32]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
44M/44M	2.088 [53.04]		1.534 [38.96]	1.852 [47.04]		0.329 [8.36]	<u>0.494</u> [12.55]	<u>1.625</u> [41.28]	<u>0.422</u> [10.72]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
44F/44F	2.088 [53.04]	1.511 [38.38]		1.852 [47.04]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>1.625</u> [41.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
62M/62M	2.729 [69.32]		2.182 [55.42]	2.500 [63.50]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>2.272</u> [57.71]	<u>0.422</u> [10.72]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
62F/62F	2.729 [69.32]	2.159 [54.84]		2.500 [63.50]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>2.272</u> [57.71]	<u>0.422</u> [10.72]	0.243 [6.17]	<u>0.429</u> [10.90]

FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

90° PRINTED BOARD MOUNT CONNECTOR

6 ROW CONNECTOR UNIT, 0.450 [11.43] CONTACT EXTENSION





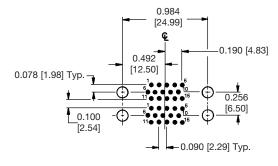
DDA44MR7T/44MR7T0

FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

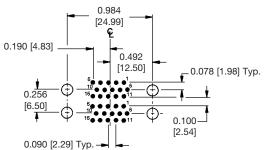
PRINTED BOARD CONTACT HOLE PATTERN

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

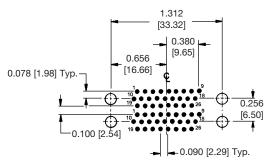
DD*15 MALE OVER MALE CONNECTOR



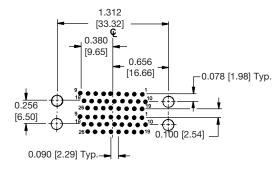
DD*15 FEMALE OVER FEMALE CONNECTOR



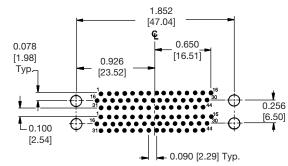
DD*26 MALE OVER MALE CONNECTOR



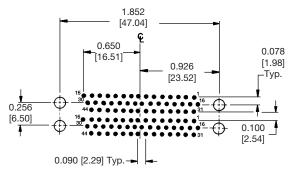
DD*26 FEMALE OVER FEMALE CONNECTOR



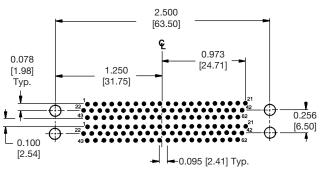
DD*44 MALE OVER MALE CONNECTOR



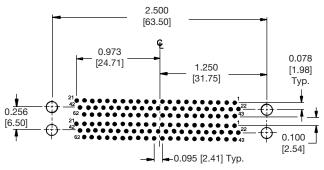
DD*44 FEMALE OVER FEMALE CONNECTOR



DD*62 MALE OVER MALE CONNECTOR



DD*62 FEMALE OVER FEMALE CONNECTOR



Mounting hole must move 0.020 [0.51] opposite direction of the arrow for use of unriveted mounting brackets with connectors.

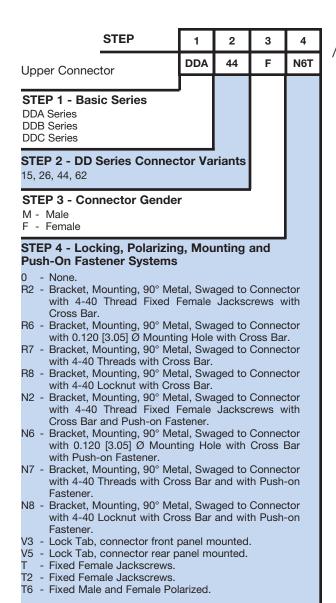
Suggest 0.035 \pm 0.002 [0.89] Ø hole for contact termination positions. Suggest 0.123 \pm 0.003 [3.12] Ø hole for mounting connector with push-on fasteners. The * signifies either a DDA, DDB or DDC connector type.

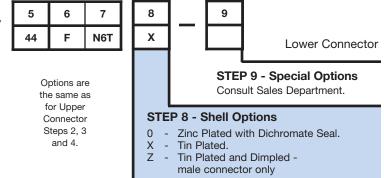


FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

ORDERING INFORMATION - CODE NUMBERING SYSTEM

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





Mixed Density Dual Port Series

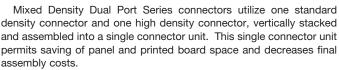
PROFESSIONAL QUALITY PRINTED BOARD MOUNT MIXED DENSITY DUAL PORT VERTICALLY STACKED CONNECTOR ASSEMBLY

FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

Size 20 and 22 Contacts **Two Connectors Vertically** Stacked and Assembled As a Single Connector Unit **Professional Quality Connectors**

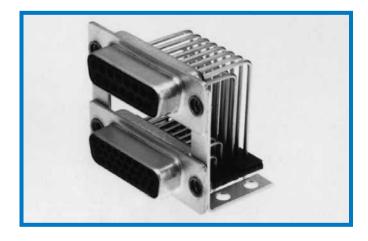
> **U.L.** Recognized File #E49351 **CSA** Recognized File #LR54219

Telecommunication U.L. File #14098



Mixed Density Dual Port Series connectors are professional quality connectors recommended for use in sheltered, noncorrosive indoor and outdoor environments having normal ventilation.

Connector contact variants are the normal density over a high density connector: 9 over 15, 15 over 26, 25 over 44 and 37 over 62. Connector genders can be mixed, i.e., one male and one female connector within one Mixed Density Dual Port assembly. The two



connectors may be spaced apart to three standard dimensional spacings. The connector may also be partially populated with contacts which are installed in the connector body to customer selected contact positions.

Mounting angle brackets can be ordered riveted to the connector by specifying R2, R6, R7 or 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.

Mixed Density Dual Port Series connectors comply with the dimensional requirements of MIL-DTL-24308.

MIXED DENSITY DUAL PORT SERIES TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulator: Glass filled polyester per ASTM D5927,

UL 94V-0, black color.

Contacts: Male contacts - precision machined

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

Gold flash over nickel plate. Other finishes **Contact Plating:**

available upon request.

Steel with tin plate, or zinc plate with Shells:

dichromate seal. Other materials and finishes available upon request.

Mounting Spacers

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

dichromate seal.

Push-On Fasteners: Beryllium copper with tin plate.

Jackscrew Systems: Steel with zinc plate and dichromate

seal, or clear zinc plate.

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

ELECTRICAL CHARACTERISTICS:

Contact Current Rating: 5 amperes for standard density

connectors. 3 amperes for high **Locking Systems:** density connectors.

Initial Contact Resistance: 0.010 ohms maximum.

Proof Voltage: 1,000 V r.m.s. 5 G ohms. **Insulator Resistance:**

Clearance and Creepage

0.039 inch [1.0 mm]. Distance [minimum]:

Working Voltage: 300 V r.m.s.

MECHANICAL CHARACTERISTICS:

Fixed Contacts: Size 20 contacts on the top connector,

0.040 inch [1.02 mm] diameter. Size 22 contacts on the bottom connector, 0.030 inch [0.76 mm] diameter. Female contacts - rugged open entry design.

Contact Retention in Insulator: 7 lbs. [31 N].

Contact Terminations: Printed board mount with

> terminations supported in footprint pattern by a plastic cross bar. Termination diameter 0.030 inch [0.76]

mm] and 0.028 inch [0.71 mm].

Shells: Male shells may be dimpled for EMI/ESD

ground paths.

Polarization: Trapezoidally shaped shells

polarized jackscrews.

Riveted to Connector:

Mounting Bracket

Riveted fasteners with 0.120 inch [3.05

mm] diameter clearance hole, 4-40 threads, or 4-40 threads with polyester

lock insert.

Mounting to Printed Board: Rapid installation push-on fasteners.

Jackscrews and vibration locking

systems for either front or rear panel

mounted connectors.

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

CLIMATIC CHARACTERISTICS:

-55°C to +125°C. **Temperature Range:**



FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

CONTACT VARIANTS

FACE VIEW OF MALE OR REAR VIEW OF FEMALE

(0,0,0,0 0,0,0 0,0,0,0 020304050607080 00000000 9 10 11 12 13 14 15 \(\bar{0}^2 \cdot 0 \c

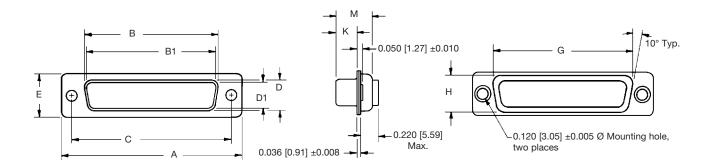
100000⁵ 600000¹⁰ 1100000₅ 1000000000 100000000018 1900000000 XD*9/15

XD*15/26

XD*25/44

XD*37/62

STANDARD SHELL ASSEMBLY

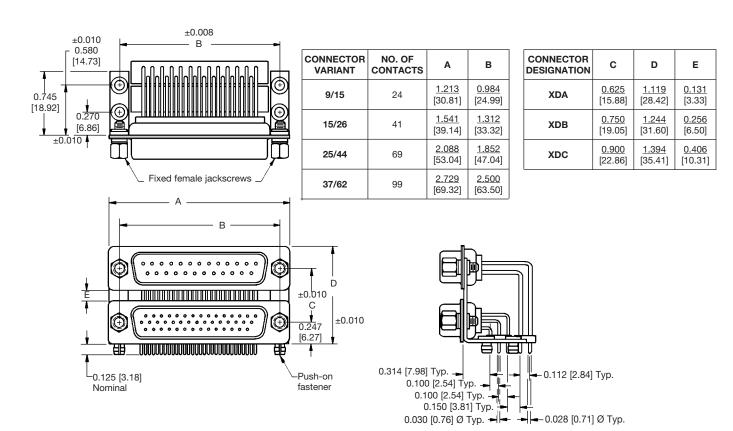


CONNECTOR VARIANT SIZES	A ±0.015	B ±0.005	B1 ±0.005	C ±0.005	D ±0.005	D1 ±0.005	E ±0.015	G ±0.010	H ±0.010	K ±0.005	M ±0.010
9M/15M	1.213 [30.81]		<u>0.666</u> [16.92]	<u>0.984</u> [24.99]		0.329 [8.36]	<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
9F/15F	1.213 [30.81]	<u>0.643</u> [16.33]		<u>0.984</u> [24.99]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
15M/26M	<u>1.541</u> [39.14]		<u>0.994</u> [25.25]	1.312 [33.32]		0.329 [8.36]	<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
15F/26F	<u>1.541</u> [39.14]	<u>0.971</u> [24.66]		1.312 [33.32]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	1.083 [27.51]	<u>0.422</u> [10.72]	0.243 [6.17]	<u>0.429</u> [10.90]
25M/44M	2.088 [53.04]		1.534 [38.96]	1.852 [47.04]		0.329 [8.36]	<u>0.494</u> [12.55]	1.625 [41.28]	<u>0.422</u> [10.72]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
25F/44F	2.088 [53.04]	1.511 [38.38]		1.852 [47.04]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	1.625 [41.28]	<u>0.422</u> [10.72]	0.243 [6.17]	<u>0.429</u> [10.90]
37M/62M	<u>2.729</u> [69.32]		2.182 [55.42]	<u>2.500</u> [63.50]		0.329 [8.36]	<u>0.494</u> [12.55]	<u>2.272</u> [57.71]	<u>0.422</u> [10.72]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
37F/62F	2.729 [69.32]	2.159 [54.84]		2.500 [63.50]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>2.272</u> [57.71]	<u>0.422</u> [10.72]	0.243 [6.17]	<u>0.429</u> [10.90]

FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

90° PRINTED BOARD MOUNT CONNECTOR

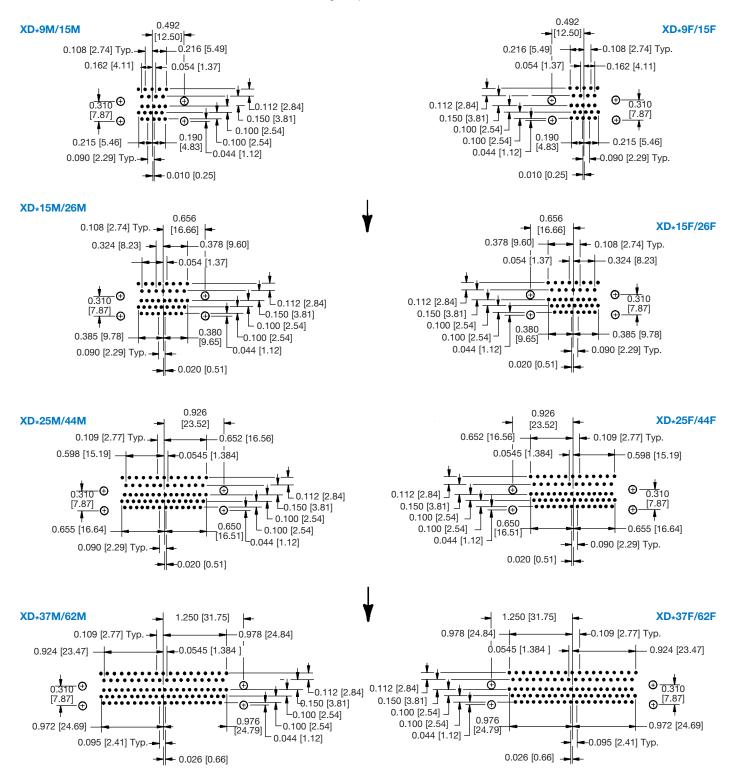
5 ROW CONNECTOR UNIT, 0.314 [7.98] CONTACT EXTENSION



FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

CONTACT HOLE PATTERN

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



DIMENSIONS ARE IN INCHES [MILLIMETERS]. ALL DIMENSIONS ARE SUBJECT TO CHANGE.

Suggest 0.045 \pm 0.002 [1.14] Ø hole for contact termination positions. Suggest 0.123 \pm 0.003 [3.12] Ø hole for mounting connector with push-on fasteners.

Mounting holes must move 0.020 [0.51] opposite direction of arrows for use of unriveted mounting brackets with connectors.

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

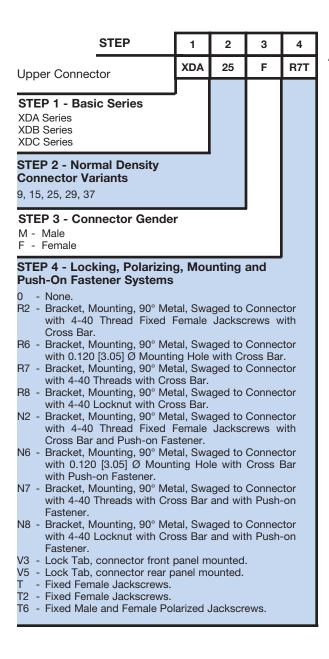


FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

ORDERING INFORMATION – CODE NUMBERING SYSTEM

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

15, 26, 44, 62



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

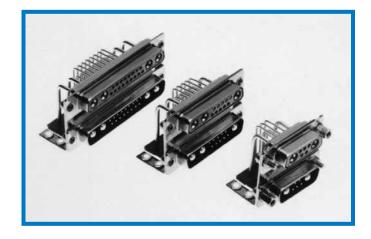
U.L. Recognized File #E49351

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: Glass filled polyester per ASTM D5927,

UL 94V-0, blue color.

Signal Contacts: Male contacts-precision machined copper

alloy. Female contacts-precision machined

high tensile phosphor bronze.

Signal Contact Plating: Gold flash over nickel plate. Other finishes

available upon request.

Power Contacts: Male contacts-precision machined copper

alloy. Female contacts-precision machined

high tensile copper alloy.

Power Contact Plating: Gold flash over nickel. Other finishes

available upon request.

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

dichromate seal. Other materials and finishes

available upon request.

Steel or brass with tin plate or zinc with **Mounting Spacers**

and Brackets: dichromate seal.

Push-On Fasteners: Beryllium copper, tin plated.

Steel with clear zinc plate or zinc plate with Jackscrew Systems:

dichromate seal.

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

ELECTRICAL CHARACTERISTICS:

Signal Contacts: 7.5 amperes nominal. Initial Contact Resistance: 0.008 ohms maximum.

15 ampere nominal for 90° board mount. 10, **Power Contacts:**

20 and 40 ampere nominal are removable contacts with solder or crimp terminations.

Initial Contact Resistance: 0.0005 ohms max. per 512-2, test 2b

Proof Voltage: 1000 V r.m.s. Insulator Resistance: 5 G ohms.

Clearance and Creepage

Distance [minimum]: 0.039 inch [1.0mm] Working Voltage: 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 lbs. [40N]

Contact Terminations: 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 contactopen entry and closed entry options.

Contact Retention

In Insulator:

Polarization:

22 lbs. [92N] **Contact Terminations:** 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.

Trapezoidally shaped shells and

polarized jackscrews. **Mounting Bracket** Riveted fasteners with 0.120 inch **Riveted to Connector:**

[3.05mm] diameter clearance hole, with 4-40 threads or 4-40 threads with

polyester lock insert.

Mounting To Printed Board:

Rapid installation push-on fasteners. **Locking Systems:** 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.

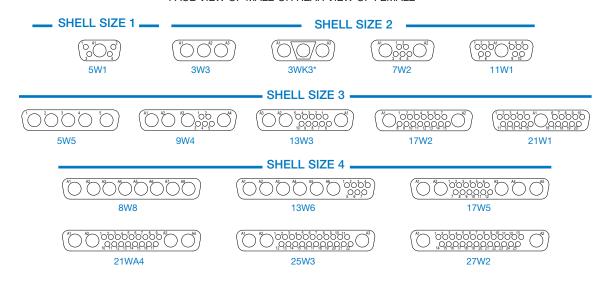
Damp Heat, Steady State: 10 days.

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

CONTACT VARIANTS

FACE VIEW OF MALE OR REAR VIEW OF FEMALE

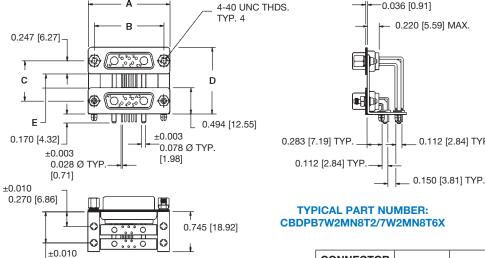


*3WK3: M variant contains 2 male contacts and 1 female contact F variant contains 2 female contacts and 1 male contact

90° PRINTED BOARD MOUNT CONNECTOR

4 ROW CONNECTOR UNIT, 0.283 [7.19] CONTACT EXTENSION 15 AMPERE MAXIMÚM RATED POWER CONTACTS

Note: 30 ampere 0.125 [3.18] Ø power contacts may be ordered at special request for a limited number of CBDP variants. Contact factory for details.



CONNECTOR DESIGNATION	С	D	E
CBDPB	<u>0.750</u>	<u>1.244</u>	<u>0.256</u>
	[19.05]	[31.60]	[6.50]
CBDPC	<u>0.900</u>	<u>1.394</u>	<u>0.406</u>
	[22.86]	[35.41]	[10.31]

^L 0.580 [14.73]

TYPICAL PART NUMBER:	
CBDPB7W2MN8T2/7W2MN8T6X	

±0.008 -0.036 [0.91]

CONNECTOR VARIANT	Α	В
SHELL SIZE 1	1.213 [30.81]	<u>0.984</u> [24.99]
SHELL SIZE 2	<u>1.541</u> [39.14]	<u>1.312</u> [33.32]
SHELL SIZE 3	<u>2.088</u> [53.04]	<u>1.852</u> [47.04]
SHELL SIZE 4	<u>2.729</u> [69.32]	<u>2.500</u> [63.50]

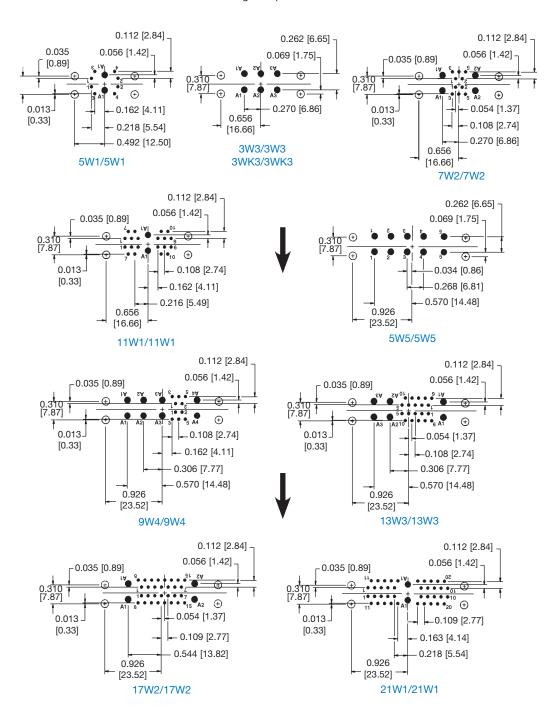
0.112 [2.84] TYP.

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.

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

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.



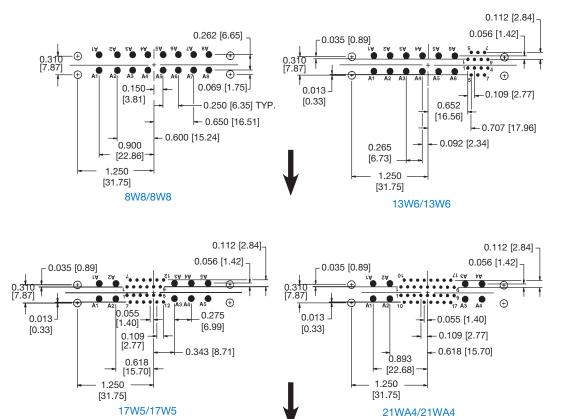
Suggest 0.045 [1.14] Ø hole for signal contact termination positions. Suggest 0.098 [2.49] Ø hole for 0.078 [1.98] Ø power contact termination positions. Suggest 0.123 ±0.003 [3.12] Ø hole for mounting connector with push-on fasteners.

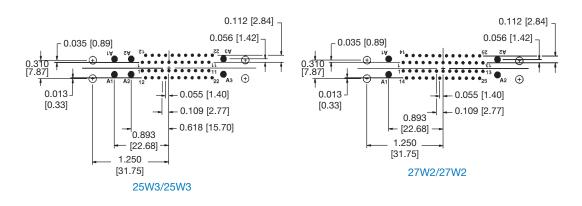
Mounting holes must move 0.020 [0.51] ±0.010 opposite direction of arrow for use of unriveted mounting bracket with connectors.

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

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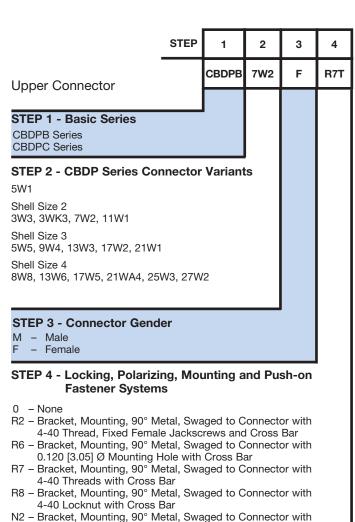
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Combo
Dual Port
Series

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

ORDERING INFORMATION - CODE NUMBERING SYSTEM

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



5 6 7W2 R7T M 0 Lower Connector Options are the same as for Upper STEP 9 - Special Options Connector Consult Sales Department Steps 2, 3, and 4 STEP 8 - Shell Options - Zinc Plated with Dichromate Seal - Tin Plated - Tin Plated and Dimpled - male connector only

Note: Size 8 removable power contacts with solder or crimp terminations with power ratings of 10, 20 and 40 amperes may be ordered in lieu of the 90° board mounted power contact. Removable size 8 shielded and high voltage contacts may also be ordered separately in lieu of the power contact. See catalog of Combo-D Subminiature-D Connectors for contact part numbers.

and Push-On Fastener

T6 - Fixed Male and Female Polarized Jackscrews

4-40 Thread, Fixed Female Jackscrews with Cross Bar

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

Positronic Products

Contact Sizes: 0, 8, 12, 16, 20 and 22

Current Ratings: To 150 amperes Terminations: Crimp, wire solder, straight solder, right angle solder, straight press-fit and right angle press-fit

Configurations: Multiple variants in a variety of package sizes Compliance: PICMG 2.11, PICMG 3.0, VITA 41



FEATURES: Hot swap capability • AC/DC operation in a single connector • Signal contacts for hardware management • Blind mating • Sequential mating • Large Surface Area Contact Mating System • Wide variety of accessories • Customer specified contact arrangements

Contact Sizes: 16, 20 and 22 Current Ratings: To 13 amperes Terminations: Crimp, wire solder, straight solder and right angle solder Configurations: Multiple variants in both standard and high densities

Qualifications: MIL-DTL-28748,

MIL-C-39029, CCITT V.35



FEATURES: Two performance levels available: industrial quality and military quality provide two performance to cost choices • Large Surface Area Contact Mating System • A wide variety of accessories • Broad selection of contact variants and package sizes



Contact Sizes: 8, 12, 16, 20 and 22

Contact Sizes: 8, 20 and 22

nominal

Current Ratings: To 40 amperes

Terminations: Crimp, wire sol-

der, straight solder, right angle

Qualifications: MIL-DTL-24308

selection of accessories

Contact Sizes: 12, 16, 20

Terminations: Crimp, wire

solder, straight solder and

right angle solder

in two package sizes

Current Ratings: To 25 amperes

Configurations: Multiple variants

Qualifications: Environmental protection to IP67

and 22

nominal

FEATURES: Three performance levels available: profes-

multiple performance to cost choices • Options include

thermocouple contacts, filtered, environmentally sealed

and dual port package including mixed density • Broad

FEATURES: Non-corrodible / lightweight composite

mating . Overmolding available on full assemblies

construction • EMI/RFI shielded versions • Thermocouple

front release of removable contacts • Two level sequential

contacts • Environmentally sealed versions • Rear insertion/

sional quality, military quality and space-flight quality provide

Goddard Space Flight 311P, MIL-C-39029, IP65, IP67

solder and straight press-fit Configurations: Multiple

variants in both standard

and high densities

Current Ratings: To 40 amperes nominal

Terminations: Feed through is standard; flying leads and board mount available upon request

Configurations: See D-Subminiature and Circular Configurations above Qualifications: Space-D32



FEATURES: Intended for use as an electrical feedthrough in high vacuum applications • Leakage rate: 1 x 10-9 mbar.l/s

- Signal, power, coax and high voltage versions available
- Connectors can be mounted on flange assembly per customer specification

All Positronic connector products can be supplied as part of cable assemblies whose technical characteristics would reflect those of the connectors being used within the assembly.



costs and delays by "cablizing" • Overmolding available • Shielded and environmentally sealed versions available • Power cables and access boxes which meet the SAE J2496 specification

FEATURES: Shorten the supply chain and reduce additional

For more information, visit www.connectpositronic.com or call your nearest Positronic sales office as given on the back of this catalog.



an Amphenol company

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