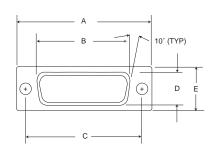
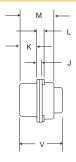
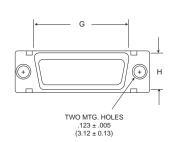


Standard Shel









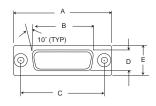


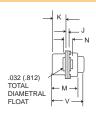
Part Number by Shell Size	T + .020 (0.51) 000 (0.00)
2DE19P	.250 (6.35)
2DE19S	.250 (6.35)
2DA31P	.250 (6.35)
2DA31S	.250 (6.35)
2DB52P	.236 (5.99)

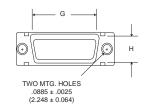
Part Number by Shell Size	T + .020 (0.51) 000 (0.00)
2DB52S	.236 (5.99)
2DC79P	.236 (5.99)
2DC79S	.236 (5.99)
2DD100P	.236 (5.99)
2DD100S	.236 (5.99)

Float Mount





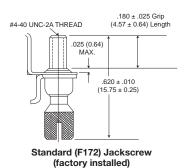


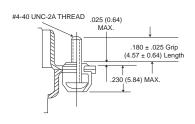


Part Number	er A	В	С	D	E	G	Н	J	K	L	M	N	V
by Shell Siz	ze± .015 (0.38)	± .010 (0.25)	± .010 (0.25)	± .010 (0.25)	±.015 (0.38)	\pm .010 (0.25)	± .010 (0.25)	± .010 (0.25)	± .010 (0.25)	± .010 (0.25)	± .010 (0.25)	± .010 (0.25)	Max.
2DE19P	1.213 (30.81)	.697 (17.70)	.984 (24.99)	.360 (9.14)	.494 (12.55)	.759 (19.28)	.422 (10.72)	.036 (.914)	.236 (5.99)	.055 (1.40)	.422 (10.72)	.120 (3.05)	.555 (14.10)
2DE19S	1.213 (30.81)	.640 (16.26)	.984 (24.99)	.308 (7.82)	.494 (12.55)	.759 (19.28)	.422 (10.72)	.032 (213)	.243 (6.17)	.047 (1.19)	.429 (10.90)	.120 (3.05)	.555 (14.10)
2DA31P	1.541 (39.14)	1.025 (26.03)	1.312 (33.32)	.360 (9.14)	.494 (12.55)	1.083 (27.51)	.422 (10.72)	.036 (.914)	.236 (5.99)	.055 (1.40)	.422 (10.72)	.120 (3.05)	.555 (14.10)
2DA31S	1.541 (39.14)	.968 (24.58)	1.312 (33.32)	.308 (7.82)	.494 (12.55)	1.083 (27.51)	.422 (10.72)	.032 (213)	.243 (6.17)	.047 (1.19)	.429 (10.90)	.120 (3.05)	.555 (14.10)
2DB52P	2.088 (53.03)	1.583 (40.21)	1.852 (47.04)	.378 (9.60)	.494 (12.55)	1.625 (41.27)	.422 (10.72)	.036 (.914)	.231 (5.87)	.055 (1.40)	.426 (10.82)	.129 (3.28)	.555 (14.10)
2DB52S	2.088 (53.03)	1.508 (38.30)	1.852 (47.04)	.308 (7.82)	.494 (12.55)	1.625 (41.27)	.422 (10.72)	.032 (213)	.243 (6.17)	.047 (1.19)	.429 (10.90)	.120 (3.05)	.555 (14.10)
2DC79P	2.729 (69.31)	2.231 (56.67)	2.500 (63.50)	.378 (9.60)	.494 (12.55)	2.272 (57.71)	.422 (10.72)	.036 (.914)	.231 (5.87)	.055 (1.40)	.426 (10.82)	.129 (3.28)	.555 (14.10)
2DC79S	2.729 (69.31)	2.156 (54.76)	2.500 (63.50)	.308 (7.82)	.494 (12.55)	2.272 (57.71)	.422 (10.72)	.032 (213)	.243 (6.17)	.047 (1.19)	.429 (10.90)	.120 (3.05)	.555 (14.10)
2DD100P	2.635 (66.92)	2.127 (54.02)	2.406 (61.11)	.484 (12.29)	.605 (15.37)	2.178 (55.32)	.534 (13.56)	.036 (.914)	.231 (5.87)	.055 (1.40)	.426 (10.82)	.129 (3.28)	.555 (14.10)
2DD100S	2.635 (66.92)	2.062 (52.37)	2.406 (61.11)	.420 (10.67)	.605 (15.37)	2.178 (55.32)	.534 (13.56)	.032 (213)	.243 (6.17)	.047 (1.19)	.429 (10.90)	.120 (3.05)	.555 (14.10)

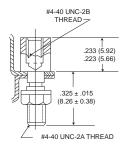
For shell with float mounts, add letter F after shell size, e.g., 2DEF19P.

Jackscrew/Jackpost Assembly





Low Profile (F173) Jackscrew (factory installed)



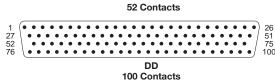
Jackpost (F171)
Front Panel Connector Mounting Only





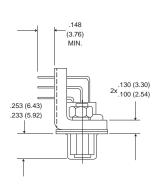
DE

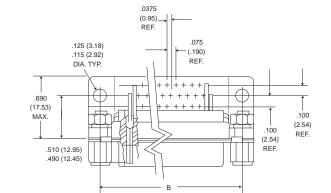
19 Contacts

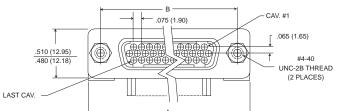


Cavity identification numbers are shown for reference only and do not appear on insulator front face. However they do appear on rear of insulator.

90° PCB Mounting - 3 Row

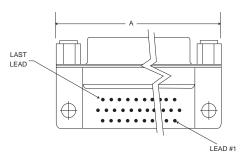






PCB Termination Leads (all contact arrangements) .024 (6.10) to .028 (7.11).

Suggested finished PC hole Size .033 (8.38) +_ .003 (0.08)



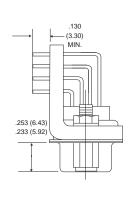
Part Number by Shell Size	A ± .015 (0.38)	B ± .010 (0.25)	C Max.
2DE19SBRP	1.215 (30.86)	.984 (24.99)	.690 (17.53)
2DA31SBRP	1.540 (39.12)	1.312 (33.32)	.690 (17.53)
2DB52SBRP	2.090 (53.09)	1.852 (47.04)	.690 (17.53)
2DC79SBRP	2.730 (69.34)	2.500 (63.50)	.690 (17.53)

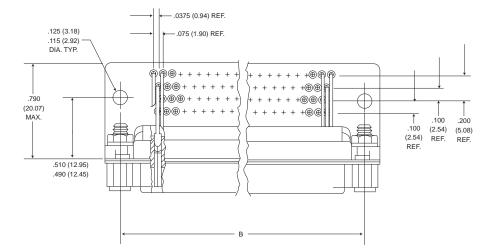


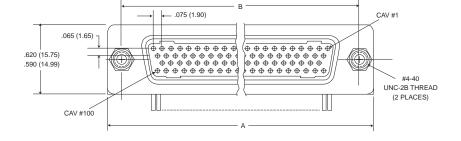
Microminiature

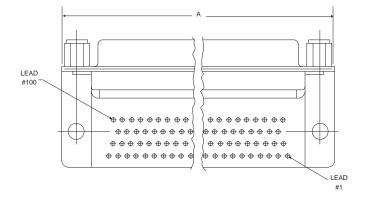
$90\degree$ PCB Mounting - 4 Row











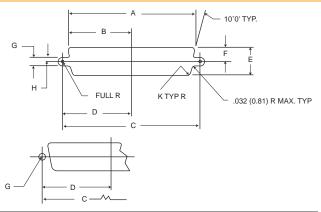
Part Number	A	B	C
by Shell Size	± .015 (0.38)	± .010 (0.25)	Max.
2DD100SBRP	2.635 (66.93)	2.406 (61.11)	.790 (20.07)

Contact Arrangements - Page B-56



Microminiature

Panel Cutouts

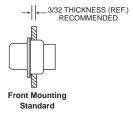


Mtg. Method	A ± .005 (0.13)	B ± .005 (0.13)	C ± .005 (0.13)	D ± .005 (0.13)	E ± .005 (0.13)	F ± .005 (0.13)	G ± .002 (0.05)	H ± .002 (0.05)	K ± .002 (0.05)
Front	.874 (22.20)	.437 (11.10)	.984 (24.99)	.492 (12.50)	.513 (13.03)	.257 (6.53)	.120 (3.05)	.060 (1.52)	.083 (2.11)
Rear	.806 (20.47)	.403 (10.24)	.984 (24.99)	.492 (12.50)	.449 (11.40)	.225 (5.71)	.120 (3.05)	.060 (1.52)	.132 (3.35)
Front	1.202 (30.53)	.601 (15.26)	1.312 (33.32)	.656 (16.66)	.513 (13.03)	.257 (6.53)	.120 (3.05)	.060 (1.52)	.083 (2.11)
Rear	1.134 (28.80)	.567 (14.40)	1.312 (33.32)	.656 (16.66)	.449 (11.40)	.225 (5.71)	.120 (3.05)	.060 (1.52)	.132 (3.35)
Front	1.743 (44.27)	.872 (22.15)	1.852 (47.04)	.926 (23.52)	.513 (13.03)	.257 (6.53)	.120 (3.05)	.060 (1.52)	.083 (2.11)
Rear	1.674 (42.52)	.837 (21.26)	1.852 (47.04)	.926 (23.52)	.449 (11.40)	.225 (5.71)	.120 (3.05)	.060 (1.52)	.132 (3.35)
Front	2.391 (60.73)	1.196 (30.38)	2.500 (63.50)	1.250 (31.75)	.513 (13.03)	.257 (6.53)	.120 (3.05)	.060 (1.52)	.083 (2.11)
Rear	2.326 (59.08)	1.163 (29.54)	2.500 (63.50)	1.250 (31.75)	.449 (11.40)	.225 (5.71)	.120 (3.05)	.060 (1.52)	.132 (3.35)
Front	2.297 (58.34)	1.149 (29.18)	2.406 (61.11)	1.203 (30.56)	.623 (15.82)	.312 (7.92)	.120 (3.05)	.060 (1.52)	.083 (2.11)
Rear	2.218 (56.34)	1.109 (28.17)	2.406 (61.11)	1.203 (30.56)	.555 (14.10)	.278 (7.06)	.120 (3.05)	.060 (1.52)	.132 (3.35)
	Front Rear Front Rear Front Rear Front Rear Front Rear Front Front Rear	Method ± .005 (0.13) Front .874 (22.20) Rear .806 (20.47) Front 1.202 (30.53) Rear 1.134 (28.80) Front 1.743 (44.27) Rear 1.674 (42.52) Front 2.391 (60.73) Rear 2.326 (59.08) Front 2.297 (58.34)	Method ± .005 (0.13) ± .005 (0.13) Front .874 (22.20) .437 (11.10) Rear .806 (20.47) .403 (10.24) Front 1.202 (30.53) .601 (15.26) Rear 1.134 (28.80) .567 (14.40) Front 1.743 (44.27) .872 (22.15) Rear 1.674 (42.52) .837 (21.26) Front 2.391 (60.73) 1.196 (30.38) Rear 2.326 (59.08) 1.163 (29.54) Front 2.297 (58.34) 1.149 (29.18)	Method ± .005 (0.13) ± .005 (0.13) ± .005 (0.13) Front .874 (22.20) .437 (11.10) .984 (24.99) Rear .806 (20.47) .403 (10.24) .984 (24.99) Front 1.202 (30.53) .601 (15.26) 1.312 (33.32) Rear 1.134 (28.80) .567 (14.40) 1.312 (33.32) Front 1.743 (44.27) .872 (22.15) 1.852 (47.04) Rear 1.674 (42.52) .837 (21.26) 1.852 (47.04) Front 2.391 (60.73) 1.196 (30.38) 2.500 (63.50) Rear 2.326 (59.08) 1.163 (29.54) 2.500 (63.50) Front 2.297 (58.34) 1.149 (29.18) 2.406 (61.11)	Method ± .005 (0.13) ± .005 (0.13) ± .005 (0.13) ± .005 (0.13) Front .874 (22.20) .437 (11.10) .984 (24.99) .492 (12.50) Rear .806 (20.47) .403 (10.24) .984 (24.99) .492 (12.50) Front 1.202 (30.53) .601 (15.26) 1.312 (33.32) .656 (16.66) Rear 1.134 (28.80) .567 (14.40) 1.312 (33.32) .656 (16.66) Front 1.743 (44.27) .872 (22.15) 1.852 (47.04) .926 (23.52) Rear 1.674 (42.52) .837 (21.26) 1.852 (47.04) .926 (23.52) Front 2.391 (60.73) 1.196 (30.38) 2.500 (63.50) 1.250 (31.75) Rear 2.326 (59.08) 1.163 (29.54) 2.500 (63.50) 1.250 (31.75) Front 2.297 (58.34) 1.149 (29.18) 2.406 (61.11) 1.203 (30.56)	Method ± .005 (0.13) </th <th>Method ± .005 (0.13)<!--</th--><th>Method ± .005 (0.13) ± .005 (0.15) ± .005 (0.15) ± .005 (0.13) ± .005 (0.13) ± .005 (0.13)<!--</th--><th>Method ± .005 (0.13) ± .005 (0.13) ± .005 (0.13) ± .005 (0.13) ± .005 (0.13) ± .002 (0.05) ± .002 (0.05) Front .874 (22.20) .437 (11.10) .984 (24.99) .492 (12.50) .513 (13.03) .257 (6.53) .120 (3.05) .060 (1.52) Rear .806 (20.47) .403 (10.24) .984 (24.99) .492 (12.50) .449 (11.40) .225 (5.71) .120 (3.05) .060 (1.52) Front 1.202 (30.53) .601 (15.26) 1.312 (33.32) .656 (16.66) .513 (13.03) .257 (6.53) .120 (3.05) .060 (1.52) Rear 1.134 (28.80) .567 (14.40) 1.312 (33.32) .656 (16.66) .449 (11.40) .225 (5.71) .120 (3.05) .060 (1.52) Front 1.743 (44.27) .872 (22.15) 1.852 (47.04) .926 (23.52) .513 (13.03) .257 (6.53) .120 (3.05) .060 (1.52) Rear 1.674 (42.52) .837 (21.26) 1.852 (47.04) .926 (23.52) .513 (13.03) .257 (6.53) .120 (3.05) .060 (1.52) Front 2.391 (60.73) 1.196 (30.38) <td< th=""></td<></th></th></th>	Method ± .005 (0.13) </th <th>Method ± .005 (0.13) ± .005 (0.15) ± .005 (0.15) ± .005 (0.13) ± .005 (0.13) ± .005 (0.13)<!--</th--><th>Method ± .005 (0.13) ± .005 (0.13) ± .005 (0.13) ± .005 (0.13) ± .005 (0.13) ± .002 (0.05) ± .002 (0.05) Front .874 (22.20) .437 (11.10) .984 (24.99) .492 (12.50) .513 (13.03) .257 (6.53) .120 (3.05) .060 (1.52) Rear .806 (20.47) .403 (10.24) .984 (24.99) .492 (12.50) .449 (11.40) .225 (5.71) .120 (3.05) .060 (1.52) Front 1.202 (30.53) .601 (15.26) 1.312 (33.32) .656 (16.66) .513 (13.03) .257 (6.53) .120 (3.05) .060 (1.52) Rear 1.134 (28.80) .567 (14.40) 1.312 (33.32) .656 (16.66) .449 (11.40) .225 (5.71) .120 (3.05) .060 (1.52) Front 1.743 (44.27) .872 (22.15) 1.852 (47.04) .926 (23.52) .513 (13.03) .257 (6.53) .120 (3.05) .060 (1.52) Rear 1.674 (42.52) .837 (21.26) 1.852 (47.04) .926 (23.52) .513 (13.03) .257 (6.53) .120 (3.05) .060 (1.52) Front 2.391 (60.73) 1.196 (30.38) <td< th=""></td<></th></th>	Method ± .005 (0.13) ± .005 (0.15) ± .005 (0.15) ± .005 (0.13) ± .005 (0.13) ± .005 (0.13) </th <th>Method ± .005 (0.13) ± .005 (0.13) ± .005 (0.13) ± .005 (0.13) ± .005 (0.13) ± .002 (0.05) ± .002 (0.05) Front .874 (22.20) .437 (11.10) .984 (24.99) .492 (12.50) .513 (13.03) .257 (6.53) .120 (3.05) .060 (1.52) Rear .806 (20.47) .403 (10.24) .984 (24.99) .492 (12.50) .449 (11.40) .225 (5.71) .120 (3.05) .060 (1.52) Front 1.202 (30.53) .601 (15.26) 1.312 (33.32) .656 (16.66) .513 (13.03) .257 (6.53) .120 (3.05) .060 (1.52) Rear 1.134 (28.80) .567 (14.40) 1.312 (33.32) .656 (16.66) .449 (11.40) .225 (5.71) .120 (3.05) .060 (1.52) Front 1.743 (44.27) .872 (22.15) 1.852 (47.04) .926 (23.52) .513 (13.03) .257 (6.53) .120 (3.05) .060 (1.52) Rear 1.674 (42.52) .837 (21.26) 1.852 (47.04) .926 (23.52) .513 (13.03) .257 (6.53) .120 (3.05) .060 (1.52) Front 2.391 (60.73) 1.196 (30.38) <td< th=""></td<></th>	Method ± .005 (0.13) ± .005 (0.13) ± .005 (0.13) ± .005 (0.13) ± .005 (0.13) ± .002 (0.05) ± .002 (0.05) Front .874 (22.20) .437 (11.10) .984 (24.99) .492 (12.50) .513 (13.03) .257 (6.53) .120 (3.05) .060 (1.52) Rear .806 (20.47) .403 (10.24) .984 (24.99) .492 (12.50) .449 (11.40) .225 (5.71) .120 (3.05) .060 (1.52) Front 1.202 (30.53) .601 (15.26) 1.312 (33.32) .656 (16.66) .513 (13.03) .257 (6.53) .120 (3.05) .060 (1.52) Rear 1.134 (28.80) .567 (14.40) 1.312 (33.32) .656 (16.66) .449 (11.40) .225 (5.71) .120 (3.05) .060 (1.52) Front 1.743 (44.27) .872 (22.15) 1.852 (47.04) .926 (23.52) .513 (13.03) .257 (6.53) .120 (3.05) .060 (1.52) Rear 1.674 (42.52) .837 (21.26) 1.852 (47.04) .926 (23.52) .513 (13.03) .257 (6.53) .120 (3.05) .060 (1.52) Front 2.391 (60.73) 1.196 (30.38) <td< th=""></td<>

For contact part numbers, termination tooling and assembly see pages D-86 to D-88.

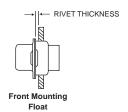
Panel Mounting

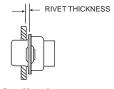






Rear Mounting Standard





Rear Mounting Float



Environmentally sealed Double Density D connector offers superior vibration and moisture resistant characteristics.

The connector features superior environmental sealing which makes it suitable for any application where severe environmental protection is critical.

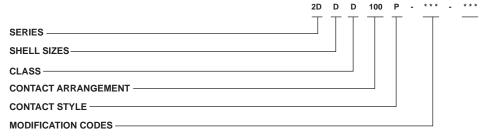
The connector's contact density design was achieved by using field proven, highly reliable Centipin/Centisocket contacts on .075" centers.

Designed to maximize positive contact mating, the contact positions are reversed, leaving the flexible Centipin contacts recessed in the insulator while the more ruggedized centisocket contacts are exposed.

This reversal of positions and the chamfered-entry of the sockets assures positive mating even under severe conditions where misalignment of mismatching of the connector might occur.

assured through superior environmental sealing. The socket contacts as well as the Centipin contacts, which feature ITT Cannon's reliable Twist Pin contact design, are retained in the connector body.

High reliability and protection of the contacts is A rubber grommet seal the signal wires and connector from external contaminants and moisture. The 90° PCB mounting 2D*D is potted behind the grommet for additional sealing.



SERIES:

2D-Double Density "D"

SHELL SIZES:

D*

Consult factory for size E, A, B, C

CLASS:

D - Environmental

CONTACT ARRANGEMENT

100*

Consult factory for sizes 19, 31, 52, 79

CONTACT STYLE

- P Centi-Loc pin (receptacle shell config.)
- S Centi-Lock socket (plug shell config.)

MODIFICATION CODES

- * * * (Two 3-digit codes permissible)
 - F0 Connector without contacts (F0 will not be printed on the connector)
 - 6 Environmental D 90° PCB mounting (socket configuration only)



Contacts:

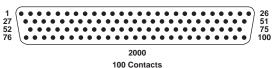
Insertable/removalbe gold-plated size 22 centi-loc crimp contacts (wire sizes #22 thru #26 AWG, stranded or solid).

* ITT Cannon is currently tooled in size D 100 contact version only.

MATERIALS AND FINISHES

Housings	Aluminum alloy, yellow chromate over cadmium plate
Peripheral Seal	Silicone
Insulators	Diallyl Phthalate
Contacts Retainer	Nylon
Grommet	Polychloroprene (bonded to housing)

View of pin front face, use reverse order for socket side

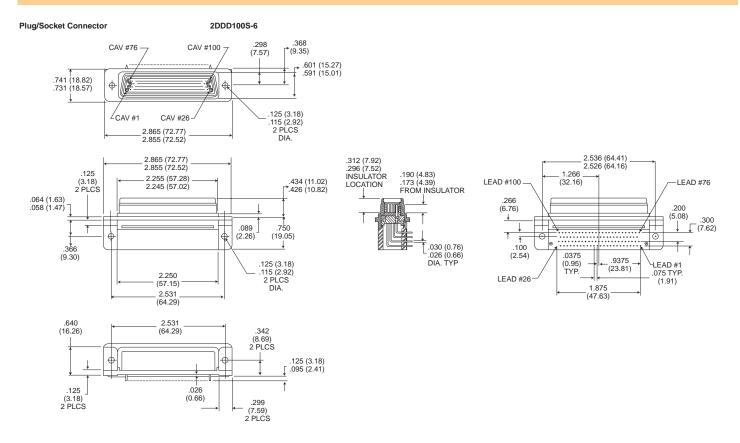


Dimensions shown in inches (mm) Specifications and dimensions subject to change



www.ittcannon.com

90° PCB Mounting



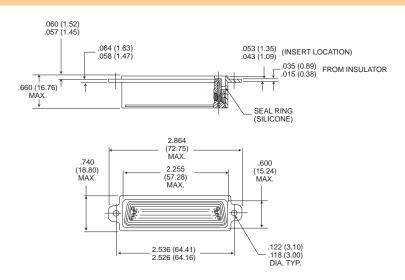
All tolerance are \pm .010 (0.25) unless otherwise noted.



D

Receptacle/Pin Connector

2DDD100P



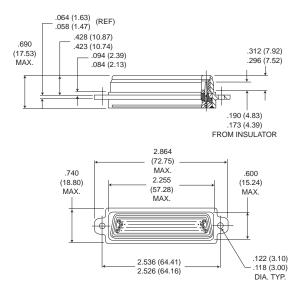
All tolerance are \pm .010 (0.25) unless otherwise noted.



Standard Mount (continued)

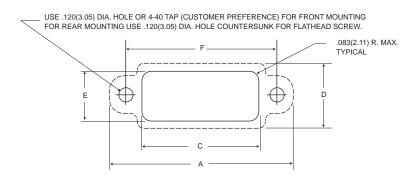
Plug/Socket Connector

2DDD100S



All tolerances are ± .010 (0.25) unless noted otherwise.

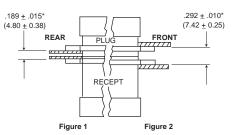
Panel Cutout



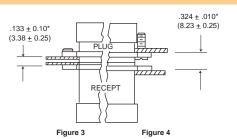
Shell	A	C	D	E	F
Size	<u>+</u> .010 (0.25)	Min.	<u>+</u> .010 (0.25)	Min.	± .006 (0.15)
2DDD-100	2.859 (72.62)	2.265 (57.53)	.735 (18.67)	.610 (15.49)	

Note: Panel cutout does not allow for potting cup clearance

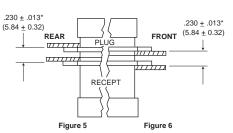
Mounting Dimensions



- 1. With both connectors rear mounted, use #4-40 flat head screws flush with the panel.
- 2. With both connectors front mounted, use #4-40 binder or pan head screws.



- With both connectors rear mounted (float mounting on either plug or receptacle side), use #4-40 flat head screws, flush with the panels.
- With both connectors front mounted (float mounting on either plug or receptacle side), use #4-40 binder or pan head screws.



5/6. With plug assembly front mounted and receptacle assembly rear mounted, use hardware from Figures 5 and 6. If float mounting is desired, use Figure 3 or 4 for the float mounted connector.

*Dimensions between panels represent the recommended limit to be used in the design of the connector mounting method.

NOTE: Max. panel thickness is .125 (3.17) for non-floating rear panel mounting. Dimensions shown in inches (mm)

Specifications and dimensions subject to change



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