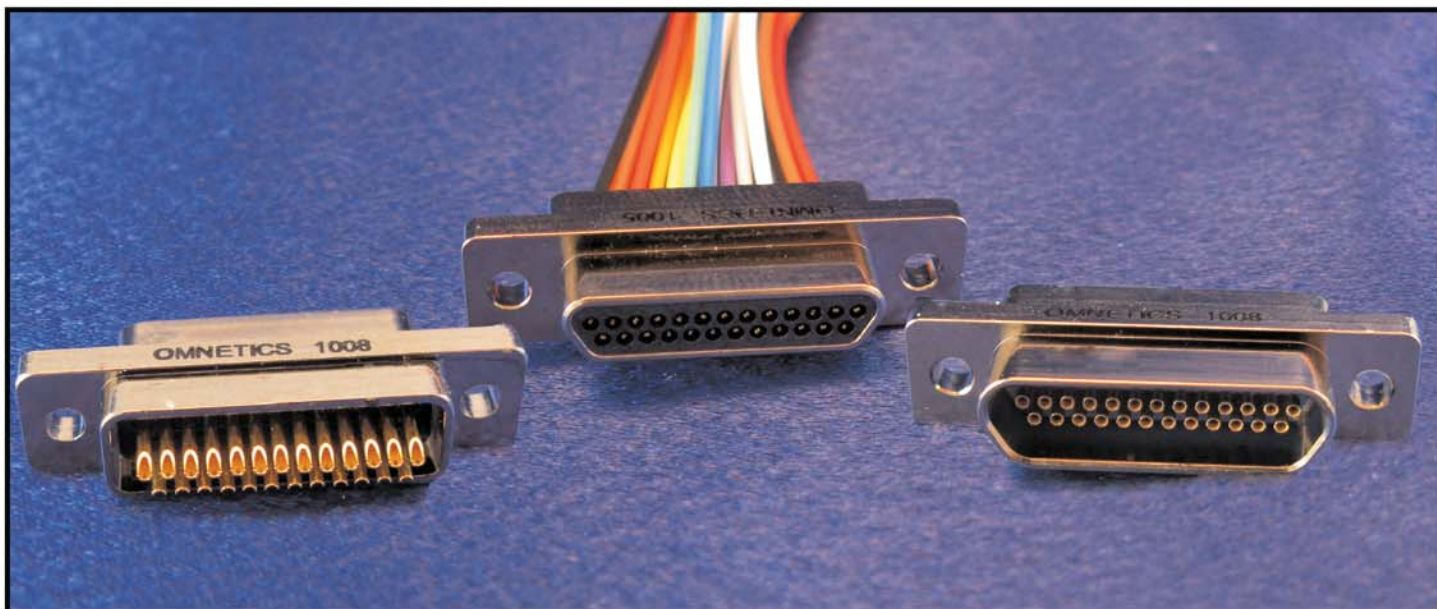


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MICRO-D'S





Micro-D Series

Omnetics Micro-D Connectors are ideal for critical, high reliability industries including aerospace, military, and medical. They are also used in devices such as: Optics, guidance systems, on-board equipment, Space and UAV systems. They are built to meet or exceed the specifications of MIL-DTL-83513.

Highly rugged and compact designs in shell styles from 9 to 51 contacts. The Micro-D connectors incorporate Omnetics' one-piece flex pin design for greater shock and vibration resistance. The high reliability gold plated flex pin is designed for >2,000 mating cycles. Omnetics Micro-D connectors will operate from -55° to 125° C.

Specifications:

Temperature Range:	-55°C to 125°C
Dielectric Breakdown:	600 VAC RMS @ Sea level
Contact Resistance:	26mΩ (65V) Max @ 2.5 AMPS
Current Rating:	3 AMPS per contact
Durability:	500 Mating Cycles Min
Insulator Resist:	5000 Meg OHMS @ 500 VDC

Material Specs:

Contact:	Copper Alloy per MIL-DTL-83513
Contact Finish:	Gold per ASTM B488, Type II, Class 1.27, Code C Over Nickel Underplate
Insulator:	Thermoplastic per MIL-DTL-83513

Shell Options:

Aluminum with Nickel Plating

Alloy 6061 per SAE AMS-QQ-A-250/8 or SAE AMS-QQ-A-250/11, Nickel per SAE-AMS-26074

Aluminum with Black Anodizing,

Alloy 6061 per SAE AMS-QQ-A-250/8 or SAE AMS-QQ-A-250/11, Black Anodize per MIL-A-8625, Type II, Class 2

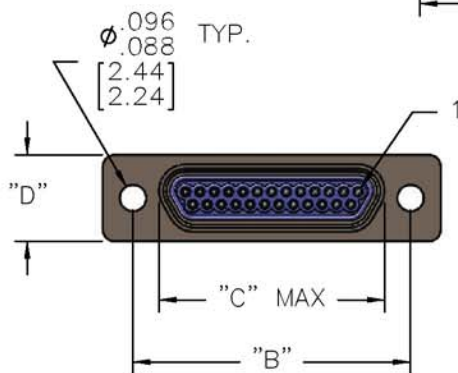
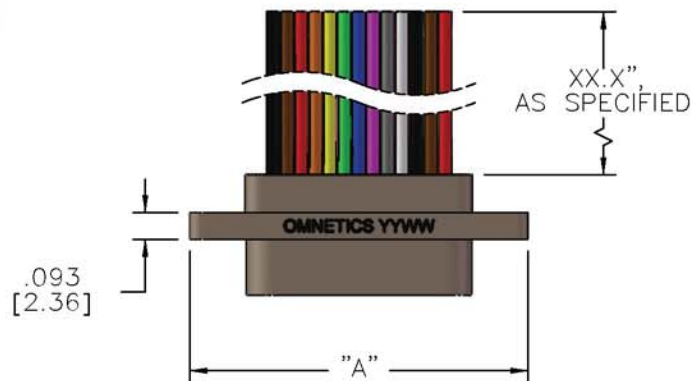
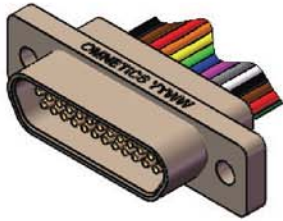
Stainless Steel, 300 Series, Passivated per SAE AMS-2700

Other Options Available, Consult Omnetics

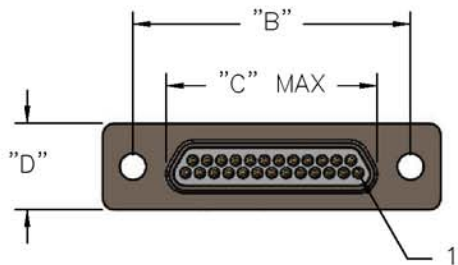
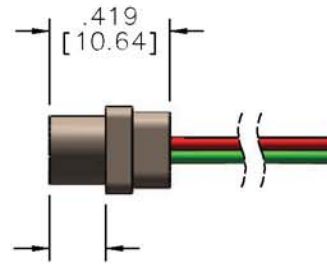
Interfacial Seal: Fluorosilicone Elastomer per A-A-59588

Hardware: Stainless Steel, 300 Series, Passivated per SAE AMS-2700

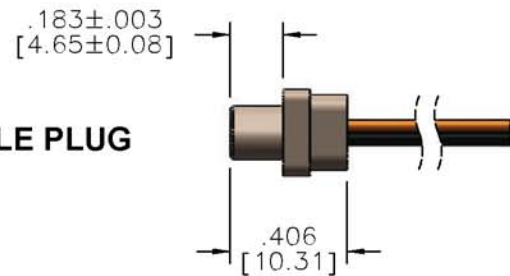
WIRED MICRO-D CONNECTORS



FEMALE RECEPTACLE



MALE PLUG



CONTACTS	CONTACT ROWS	ENGLISH (in)					METRIC (mm)				
		"A"	"B"	"C" (FEMALE)	"C" (MALE)	"D"	"A"	"B"	"C" (FEMALE)	"C" (MALE)	"D"
9	2	.775	.565	.400	.334	.300	19.69	14.35	10.16	8.48	7.62
15		.925	.715	.550	.484	.300	23.50	18.16	13.97	12.29	7.62
21		1.075	.865	.700	.634	.300	27.31	21.97	17.78	16.10	7.62
25		1.175	.965	.800	.734	.300	29.85	24.51	20.32	18.64	7.62
31		1.325	1.115	.950	.884	.300	33.66	28.32	24.13	22.45	7.62
37		1.475	1.265	1.100	1.034	.300	37.47	32.13	27.94	26.26	7.62
51	3	1.825	1.615	1.450	1.384	.300	46.36	41.02	36.83	35.15	7.62
51		1.425	1.215	1.050	.984	.343	36.20	30.86	26.67	24.99	8.71

7260 COMMERCE CIRCLE EAST
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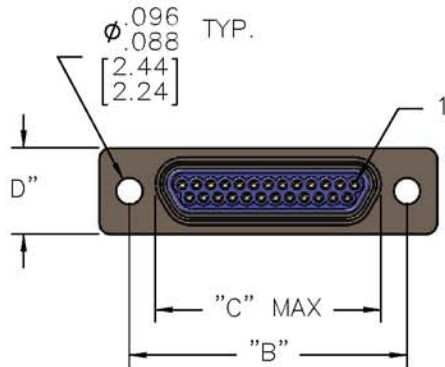
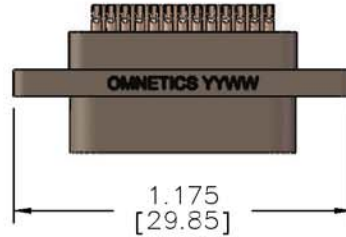
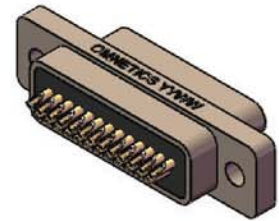
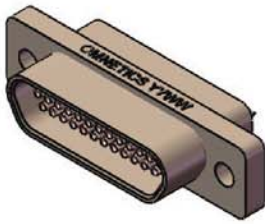
OMNETICS
CONNECTOR CORPORATION

MICRO-D WIRED
CONNECTORS

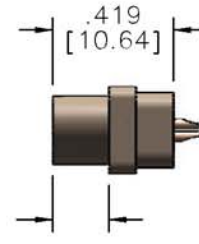
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MICRO-D
BROCHURE

SOLDERCUP MICRO-D CONNECTORS



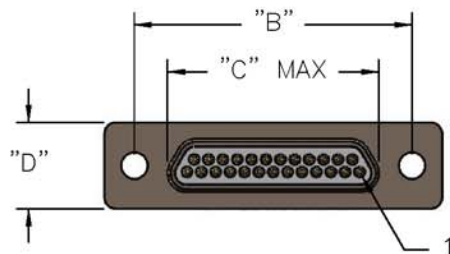
FEMALE RECEPTACLE



.11 MAX
[2.8 MAX]
OUTSIDE
ROW TYP.

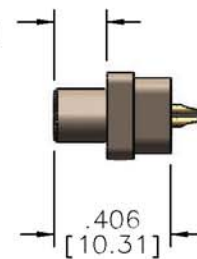


.20 MAX
[5.1 MAX]
CENTER
ROW TYP.



MALE PLUG

.183±.003
[4.65±0.08]



CONTACTS	CONTACT ROWS	ENGLISH (in)					METRIC (mm)				
		"A"	"B"	"C" (FEMALE)	"C" (MALE)	"D"	"A"	"B"	"C" (FEMALE)	"C" (MALE)	"D"
9	2	.775	.565	.400	.334	.300	19.69	14.35	10.16	8.48	7.62
15		.925	.715	.550	.484	.300	23.50	18.16	13.97	12.29	7.62
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51	3	1.425	1.215	1.050	.984	.343	36.20	30.86	26.67	24.99	8.71

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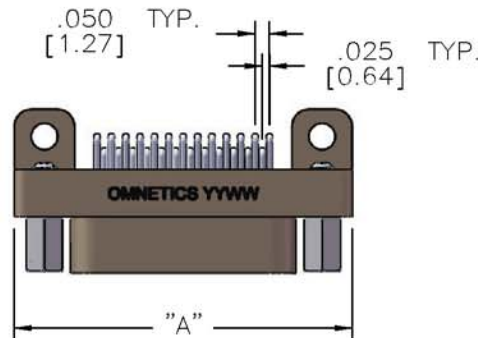
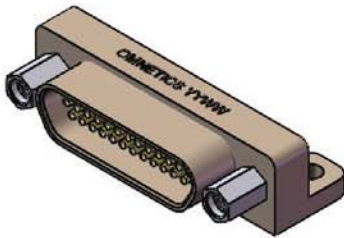
OMNETICS
CONNECTOR CORPORATION

MICRO-D
SOLDERCUP
CONNECTORS

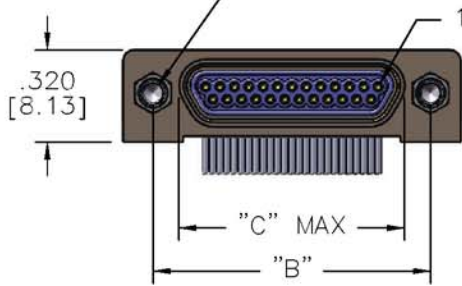
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61873

MICRO-D
BROCHURE

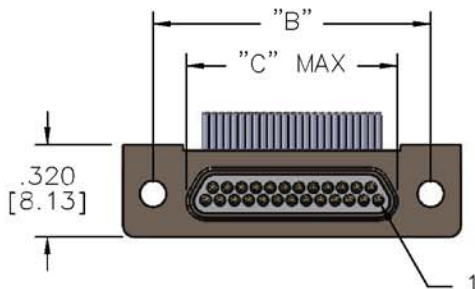
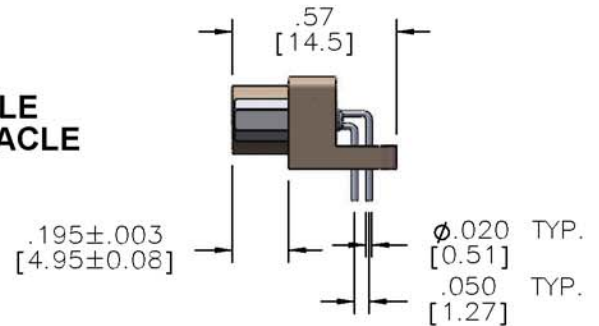
RIGHT ANGLE THRU-HOLE PCB MICRO-D CONNECTORS



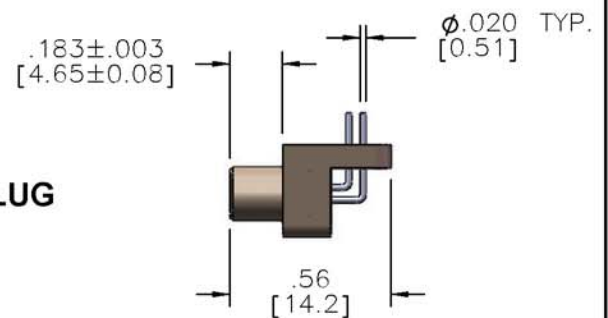
2X #2-56 UNC-2B,
(JACKPOST OPTION
PICTURED)



**FEMALE
RECEPTACLE**



MALE PLUG



CONTACTS	CONTACT ROWS	ENGLISH (in)				METRIC (mm)			
		"A"	"B"	"C" (FEMALE)	"C" (MALE)	"A"	"B"	"C" (FEMALE)	"C" (MALE)
9	2	.775	.565	.400	.334	19.69	14.35	10.16	8.48
15		.925	.715	.550	.484	23.50	18.16	13.97	12.29
21		1.075	.865	.700	.634	27.31	21.97	17.78	16.10
25		1.175	.965	.800	.734	29.85	24.51	20.32	18.64
31		1.325	1.115	.950	.884	33.66	28.32	24.13	22.45
37		1.475	1.265	1.100	1.034	37.47	32.13	27.94	26.26
51		1.825	1.615	1.450	1.384	46.36	41.02	36.83	35.15

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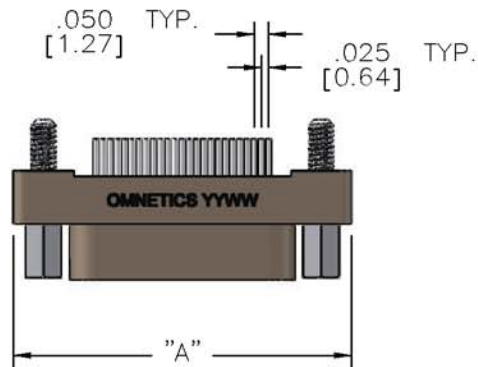
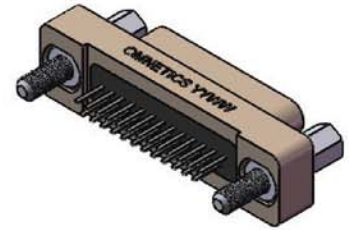
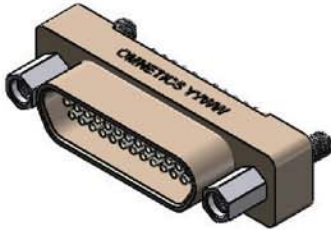
OMNETICS
CONNECTOR CORPORATION

RIGHT ANGLE
THRU-HOLE
PCB MICRO-D
CONNECTORS

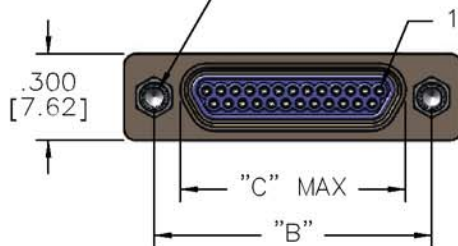
CAGE CODE:
61873

MICRO-D
BROCHURE

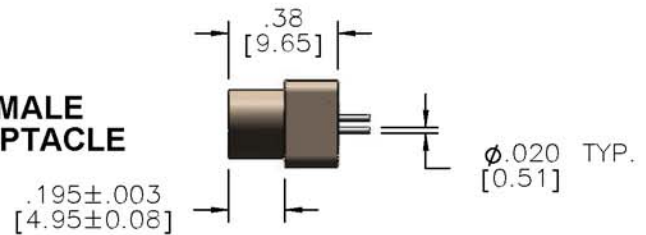
STRAIGHT THRU-HOLE PCB MICRO-D CONNECTORS



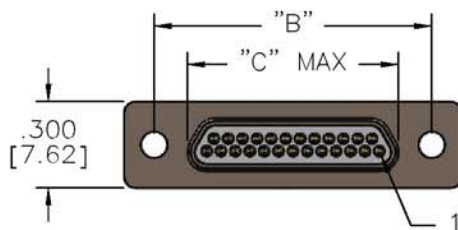
2X #2-56 UNC-2B,
(JACKPOST OPTION
PICTURED)



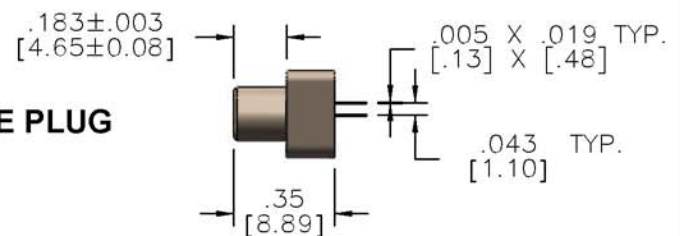
FEMALE RECEPTACLE



(HARDWARE OMITTED FOR CLARITY)



MALE PLUG



CONTACTS	CONTACT ROWS	ENGLISH (in)				METRIC (mm)			
		"A"	"B"	"C" (FEMALE)	"C" (MALE)	"A"	"B"	"C" (FEMALE)	"C" (MALE)
9	2	.775	.565	.400	.334	19.69	14.35	10.16	8.48
15		.925	.715	.550	.484	23.50	18.16	13.97	12.29
21		1.075	.865	.700	.634	27.31	21.97	17.78	16.10
25		1.175	.965	.800	.734	29.85	24.51	20.32	18.64
31		1.325	1.115	.950	.884	33.66	28.32	24.13	22.45
37		1.475	1.265	1.100	1.034	37.47	32.13	27.94	26.26
51		1.825	1.615	1.450	1.384	46.36	41.02	36.83	35.15

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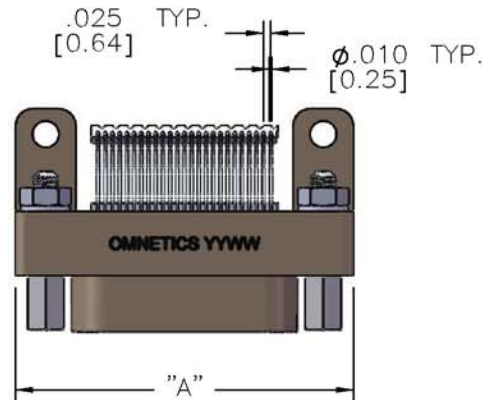
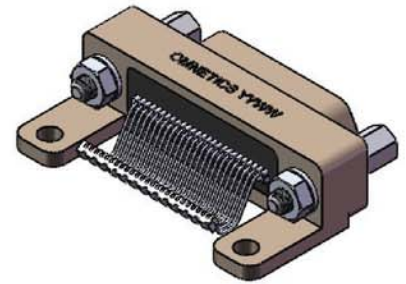
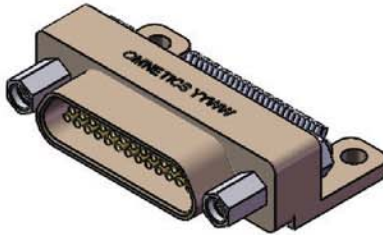
OMNETICS
CONNECTOR CORPORATION

STRAIGHT
THRU-HOLE
PCB MICRO-D
CONNECTORS

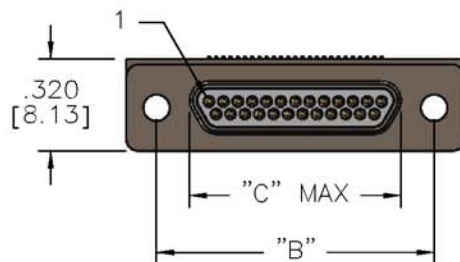
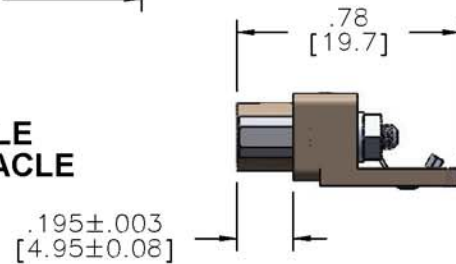
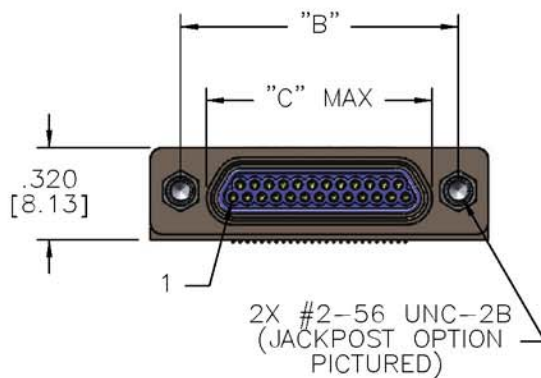
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MICRO-D
BROCHURE

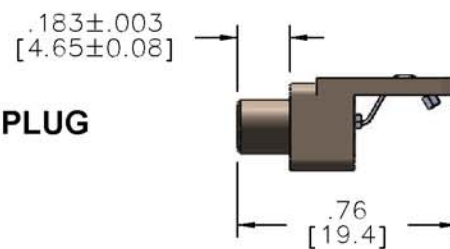
HORIZONTAL SURFACE MOUNT PCB MICRO-D CONNECTORS



**FEMALE
RECEPTACLE**



MALE PLUG



CONTACTS	CONTACT ROWS	ENGLISH (in)				METRIC (mm)			
		"A"	"B"	"C" (FEMALE)	"C" (MALE)	"A"	"B"	"C" (FEMALE)	"C" (MALE)
9	2	.775	.565	.400	.334	19.69	14.35	10.16	8.48
15		.925	.715	.550	.484	23.50	18.16	13.97	12.29
21		1.075	.865	.700	.634	27.31	21.97	17.78	16.10
25		1.175	.965	.800	.734	29.85	24.51	20.32	18.64
31		1.325	1.115	.950	.884	33.66	28.32	24.13	22.45
37		1.475	1.265	1.100	1.034	37.47	32.13	27.94	26.26
51		1.825	1.615	1.450	1.384	46.36	41.02	36.83	35.15

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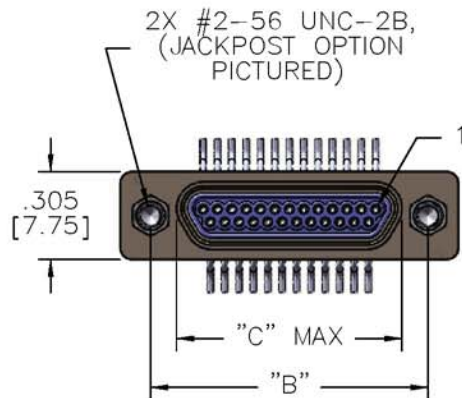
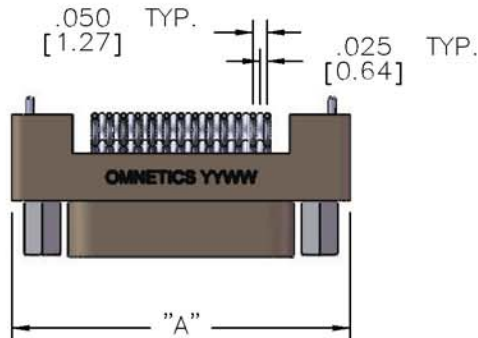
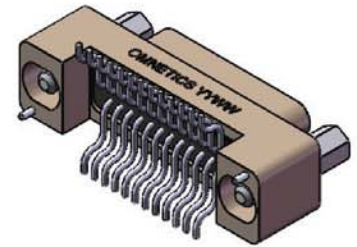
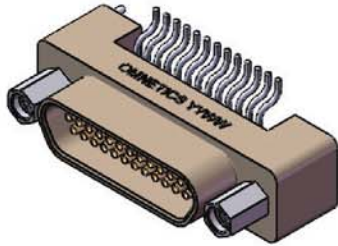
OMNETICS
CONNECTOR CORPORATION

HORIZONTAL
SURFACE MOUNT
PCB MICRO-D
CONNECTORS

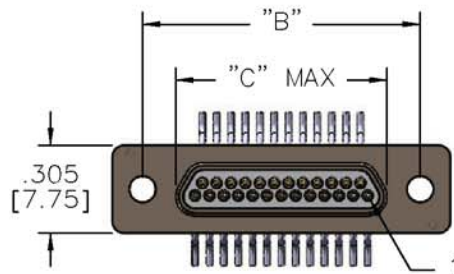
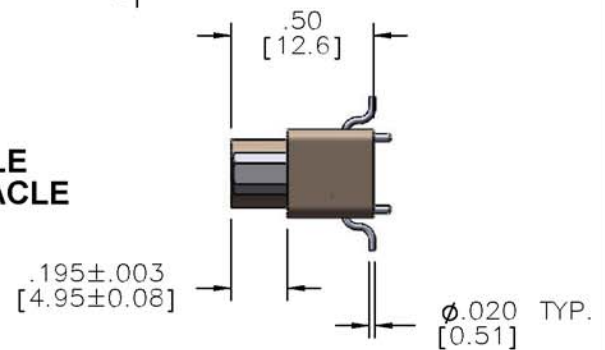
CAGE CODE:
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MICRO-D
BROCHURE

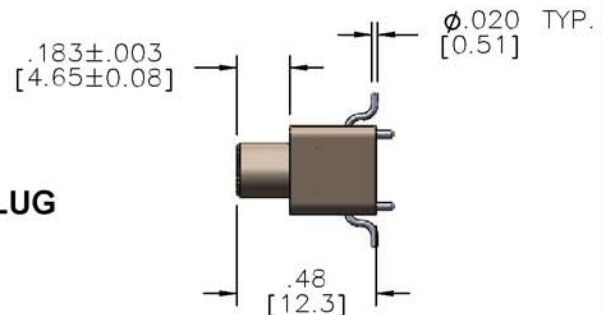
VERTICAL SURFACE MOUNT PCB MICRO-D CONNECTORS



**FEMALE
RECEPTACLE**



MALE PLUG



CONTACTS	CONTACT ROWS	ENGLISH (in)				METRIC (mm)			
		"A"	"B"	"C" (FEMALE)	"C" (MALE)	"A"	"B"	"C" (FEMALE)	"C" (MALE)
9	2	.775	.565	.400	.334	19.69	14.35	10.16	8.48
15		.925	.715	.550	.484	23.50	18.16	13.97	12.29
21		1.075	.865	.700	.634	27.31	21.97	17.78	16.10
25		1.175	.965	.800	.734	29.85	24.51	20.32	18.64
31		1.325	1.115	.950	.884	33.66	28.32	24.13	22.45
37		1.475	1.265	1.100	1.034	37.47	32.13	27.94	26.26
51		1.825	1.615	1.450	1.384	46.36	41.02	36.83	35.15

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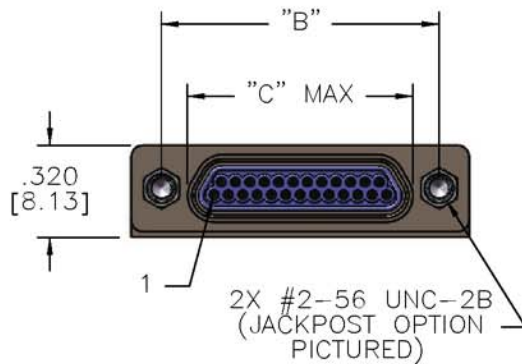
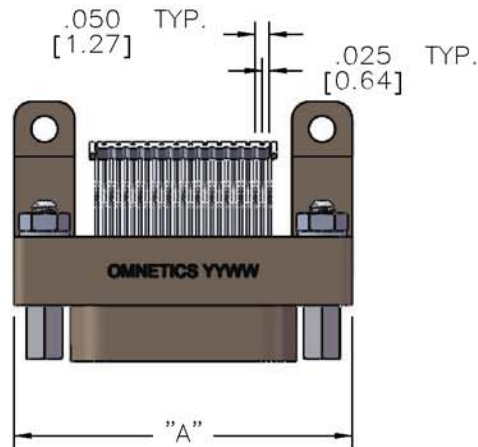
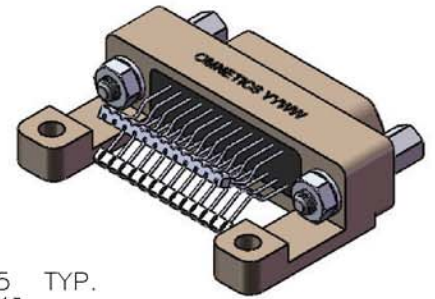
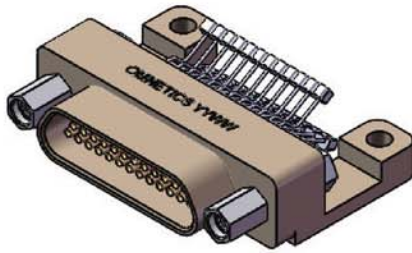
OMNETICS
CONNECTOR CORPORATION

VERTICAL
SURFACE MOUNT
PCB MICRO-D
CONNECTORS

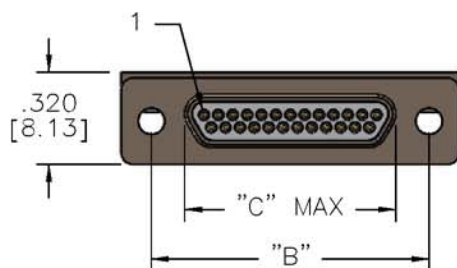
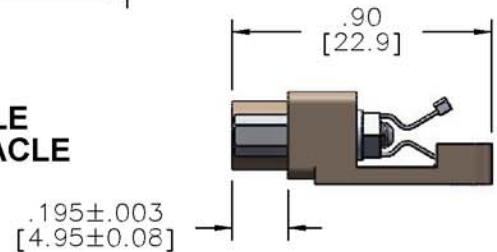
CAGE CODE:
61873

MICRO-D
BROCHURE

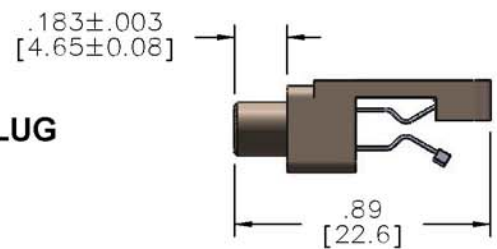
CARD EDGE SURFACE MOUNT PCB MICRO-D CONNECTORS



**FEMALE
RECEPTACLE**



MALE PLUG



CONTACTS	CONTACT ROWS	ENGLISH (in)				METRIC (mm)			
		"A"	"B"	"C" (FEMALE)	"C" (MALE)	"A"	"B"	"C" (FEMALE)	"C" (MALE)
9	2	.775	.565	.400	.334	19.69	14.35	10.16	8.48
15		.925	.715	.550	.484	23.50	18.16	13.97	12.29
21		1.075	.865	.700	.634	27.31	21.97	17.78	16.10
25		1.175	.965	.800	.734	29.85	24.51	20.32	18.64
31		1.325	1.115	.950	.884	33.66	28.32	24.13	22.45
37		1.475	1.265	1.100	1.034	37.47	32.13	27.94	26.26
51		1.825	1.615	1.450	1.384	46.36	41.02	36.83	35.15

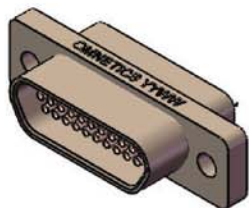
7260 COMMERCE CIRCLE EAST
MINNEAPOLIS, MN 55432
(763) 572-0656
WWW.OMNETICS.COM

OMNETICS
CONNECTOR CORPORATION

CARD EDGE
SURFACE MOUNT
PCB MICRO-D
CONNECTORS

CAGE CODE:
61873

MICRO-D
BROCHURE



MICRO-D ORDERING GUIDE



For Wired Connectors (WD Termination Style):

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Series + Contact Type		Number of Contacts		Shell Type + Hardware		"WD" + Wire AWG + Wire Type + Length		Wire Color Scheme		Options*

For All Other Connectors (Various Termination Styles):

<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>	-	<input type="text"/>
Series + Contact Type		Number of Contacts		Shell Type + Hardware		Termination Style		Options*

*Each Additional Option Field Separated by a Hyphen

Series

MMD (Metal Shell Micro-D)

Contact Types

P = Male Pin Contact

S = Female Socket Contact

of Contacts

Standard Insulators Sizes

Include: 009, 015, 021, 025,
031, 037, 051 (Use 512 For
Two Row and 513 For Three
Row)

Shell Type (Finish - Material):

N = Electroless Nickel - Aluminum**

C = Cadmium - Aluminum

P = Passivated - Stainless Steel

B = Black Anodize - Aluminum

Termination Styles

WD = Discrete Wire

SS = Solder Cups

R2 = Right Angle Thru Hole

S2 = Straight Thru Hole

H0 = Horizontal Surface Mount

V0 = Vertical Surface Mount

C0 = Card Edge Mount (.060 PCB)

XX = Other, Consult Omnetics

Wire Length

18.0**

XXX Length in Inches...

including tenths

example: 39.4

Options

RH = RoHS Compliant

HT = High Temp Epoxy

Hardware

00 = None, Ø.092 Hole**

01 = Fixed Jackposts**

02 = Jackscrews, Standard Length, Hex**

03 = Jackscrews, Standard Length, Slotted

04 = Jackscrews, Long, Hex

05 = Jackscrews, Long, Slotted

Wire AWG

6 = 26 AWG**

8 = 28 AWG

0 = 30 AWG

Wire Types

Q = NEMA HP3 (Formerly M16878/4 & /6)**

R = M22759/11

S = M22759/33

Wire Color Schemes

1 = 10 Repeating Colors**

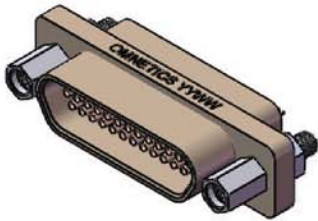
2 = Blue

3 = White

5 = Yellow

**Standard Options

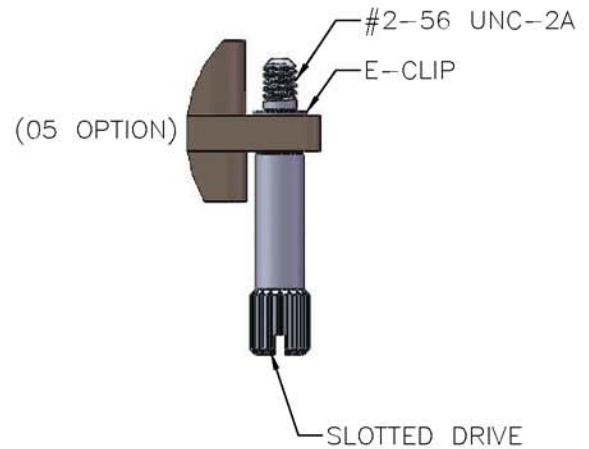
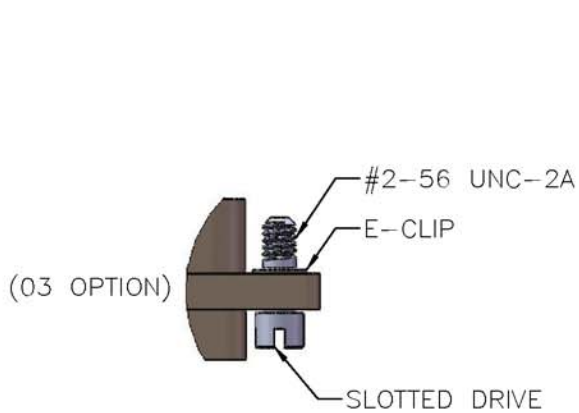
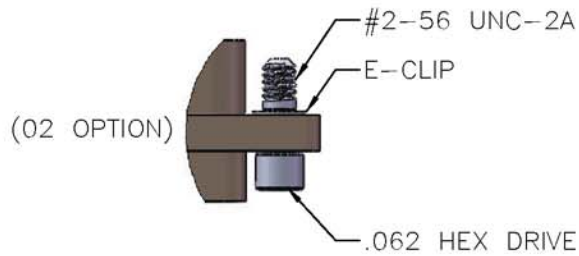
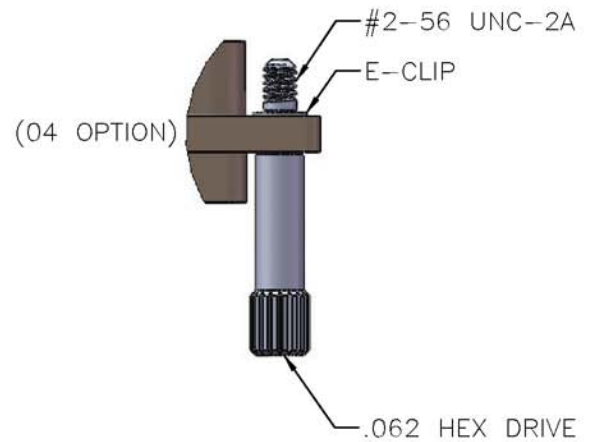
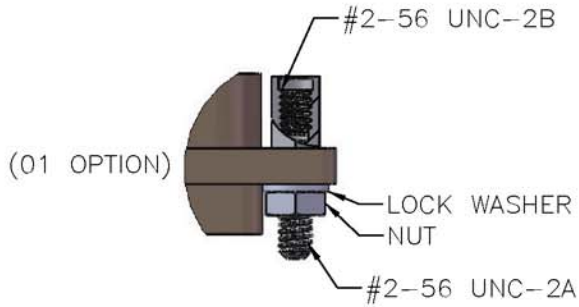
MICRO-D HARDWARE SELECTION



(00 OPTION)



Ø.096
Ø.088
[2.44]
[2.24]



7260 COMMERCE CIRCLE EAST
MINNEAPOLIS, MN 55432
(763) 572-0656
WWW.OMNETICS.COM

OMNETICS
CONNECTOR CORPORATION

MICRO-D
HARDWARE
SELECTION

CAGE CODE:
61873

MICRO-D
BROCHURE

Wire/Cable Harnessing

- Complete Manufacturing Solutions
- Overmolding Capabilities
- 100% Testing of Continuity and Dielectric Withstanding Voltage
- Crimped Contacts Eliminates Brittle Solder Cup Connections

- Optimizes Space Usage
- Condenses exposed wires
- More Customization Options
- Ease-of-use
- Improves Signal Integrity

Omnetics Connector Corporation

Omnetics Connector Corporation is a privately held, world class connector design and manufacturing company with over 25 years of experience focused upon Micro-miniature and Nano-miniature high reliability electronic connectors and interconnection systems. Our products are designed and assembled at our plant in Minneapolis, MN., that includes in-house NC machine and over-molding equipment.

Our proprietary spring-socket system (Flex-Pin) exceeds the tests specified in MIL-DTL-83513 for micro (0.050in pitch) connectors and has approved QPL status on the MIL-DTL-32139 level program for nano (0.025in pitch) connectors. This allows us to be a leading supplier in industries including Military, Aerospace, Medical, Instrumentation and other high-technology oriented OEMs.

Omnetics maintains a large off-the-shelf (COTs) inventory. The company has a catalog offering a wide range of standard designs and also specializes in customized high-reliability miniature and nano-sized interconnects. Our world wide distribution and sales team is experienced in supporting both standard and custom tailored designs to meet customers unique form, fit and functional connector needs.

The Omnetics product portfolio includes products believed to be among the smallest, high-reliability connectors in the world:

- Micro and Nano strip connectors
- Micro and Nano circular connectors
- Bi-Lobe® (a QPL rectangular connector family)
- Squeeze-Latching Nano-connector
- Polarized Nano-connectors

Visit our web site at www.omnetics.com