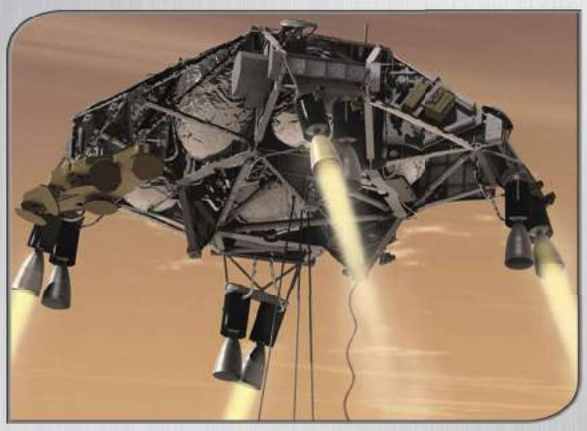
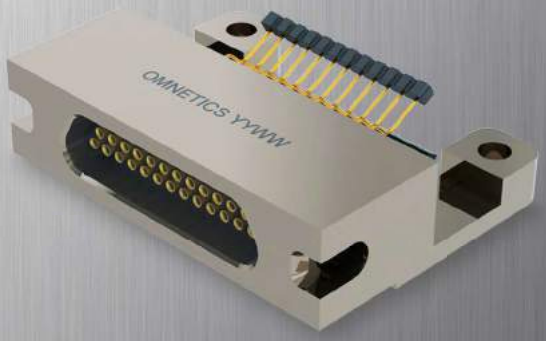
OMNETICS
CONNECTOR CORPORATION





Micro-D Catalog

OMNETICS
CONNECTOR CORPORATION

About Omnetics Connector Corporation

- Omnetics Connector Company 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 in a single location at our plant in Minneapolis, MN., that includes in-house automatic machining and over-molding equipment.

- Our proprietary spring-socket system (Flex-Pin) passes the tests specified in Mil-83513 for micro (0.050in pitch) connectors and has approved QPL status on the new Mil-32139 level program for nano (0.025in pitch) connectors. This allows us to be a leading supplier in industries including Aerospace, Military, 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 customized designs for connector miniaturization to form, fit and function.

- The Omnetics product portfolio includes products believed to be amongst the smallest, high-reliability connectors in the world:
  - Micro and nano strip connectors
  - Micro circular connectors
  - The world-class Nano Bi-Lobe® (a QPL rectangular connector family)
  - The new squeeze-latching nano-connector
  - Nano-circular connectors
  - Polarized nano-connectors

RoHS COMPLIANT

Micro-D

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Omnetics Connector Corp. • 7260 Commerce Circle E • Minneapolis, MN 55432-3103 • Ph: 763-572-0656 • Fax: 763-572-3925
www.omnetics.com
E-mail: sales@omnetics.com

OMNETICS CONNECTOR CORPORATION

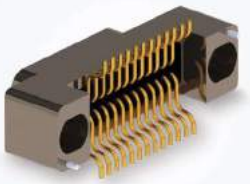
Micro-D

Picture Index

Micro-D

HORIZONTAL SMT
(H0)

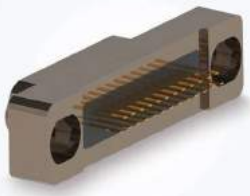
VERTICAL SMT
(V0)



CARD EDGE SMT
(C0)

FLEX TAIL
(FF)

STRAIGHT THRU-HOLE
(S2)



RIGHT ANGLE THRU-HOLE
(R2)

SOLDER CUP
(SS)

DISCRETE WIRE
(WD)

FEMALE TO MALE JUMPER
(W)

FEMALE TO FEMALE JUMPER
(X)

MALE TO MALE JUMPER
(Y)

CONNECTOR SAVER
(Z)

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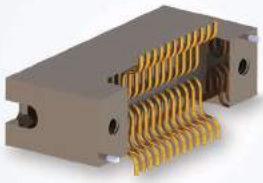
Micro-D

Picture Index

Micro-D Latching

LATCHING HORIZONAL SMT
(H0)

LATCHING VERTICAL SMT
(V0)



LATCHING CARD EDGE SMT
(C0)

LATCHING FLEX TAIL
(FF)

LATCHING STRAIGHT THRU-HOLE
(S2)

LATCHING RIGHT ANGLE THU-HOLE
(C0)

LATCHING SOLDER CUP
(SS)

LATCHING DISCRETE WIRE
(WD)

HARDWARE OPTIONS

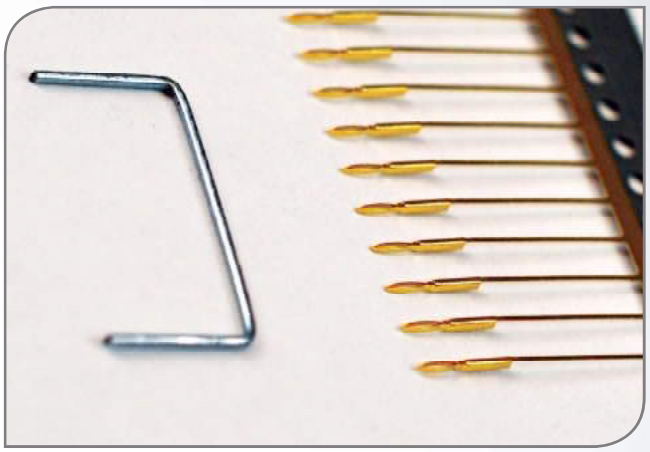
CONVERSION KIT

BACKSHELLS

CUSTOM CONNECTORS

The Flex Pin Design

Designed Simply for High Shock & Vibration



Omnetics' Flex Pin contact design is a wonderfully engineered piece, designed and produced many years before the creation of MIL-DTL-83513. This simple one piece design is stamped from Beryllium Copper per ASTM B488. The spring characteristic of BeCu is ideal for withstanding high shock and vibration situations.

The Flex Pin contact is inter-mateable with all MIL- DTL-83513 sockets. Its rugged design easily passes the shock and vibration requirements of the military specification. In fact, independent tests have proven that the Flex Pin contact can even withstand the intense shock and vibration of the geophysical drilling market.

Flex Pin contacts are all plated with 50 micro inches (1.27 µm) of gold over 50 micro inches(1.27 µm) of nickel. All pins are plated post forming to insure a non-porous surface.

Flex Pin

The Omnetics nano Flex Pin has been in successful production for over 25 years, while its young counterpart the nano twist pin is relatively new. Nano twist pin manufacturers took an old standard and shrunk it down to nano size. Omnetics on the other hand looked at the old technology and found ways to improve and simplify the design. Omnetics removed the extra crimps and welds and came up with an elegant one piece design with the same performance as the overly complex twist pin. The elimination of extra joints removed resistance points as well as spots for potential fatigue and failure.

Micro Flex Pins are rated at 3 amps each and are the foundation of our Micro-D & MIL-DTL-83513 series of connectors.

FLEX PIN
Superior one piece design

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E-mail: sales@omnetics.com

Micro-D and MIL-DTL-83513 Specifications

1. Scope: These specifications highlight some of the standard requirements of Omnetics' Micro-D style microminiature connectors in both QPL & non-QPL versions. These connectors have contacts densely packed with centerlines of .050" (1.27 mm) and are commonly used in mission critical applications.

2. Precedence of Requirements: The specifications herein are a select summary of those called out in MIL-DTL-83513. The complete controlled version of MIL-DTL-83513 from DLA takes precedence over these pages. For non-QPL parts, requirements of customer specifications and Omnetics' detail drawings will take top priority.

3. Materials

3.1. Contact material: Contacts are suitably conductive copper based alloys per MIL-DTL-83513.

3.2. Contact finish: Contacts are gold plated in accordance with ASTM B488, type II, code C, class1.27, 50 micro inches minimum thickness, over 50 micro inches minimum of nickel.

3.3. Dielectric materials: Insulator material for connectors is LCP in accordance with ASTM D5138

3.4. Shells: Shell options include the following materials:

3.4.1. Aluminum, alloy 6061 per SAE-AMS-QQ-A-200/8, plated as follows:

3.4.1.1. Electroless Nickel plated per SAE AMS-2404, class 3 or 4, grade B
3.4.1.2. Cadmium plated per SAE-AMS-QQ-P-416, type II, class 3, yellow chromate over nickel underplate
3.4.1.3. Black anodize per MIL-A-8625, Type II, Class 2

3.4.2. Stainless steel, 300 series, passivated per SAE AMS-2700, Type 2

3.5. Encapsulant: Epoxy shall be used as a potting material to prevent contact removal. A suitable material shall be used to enable the connector to pass all required mechanical, environmental and electrical testing.

3.6. Interfacial Seals: Seals shall be made from silicone or fluorosilicone elastomer in accordance with A-A-59588 or SAE AMS-R-25988

3.7. Mounting Hardware: Stainless steel, 300 series, passivated per SAE AMS-2700 except e-clips and lock washers. E-clips and lock washers are corrosion resistant steel, passivated per SAE AMS-QQ-P-35.

3.8. Pigtail Wire: Insulated wire shall be in accordance with SAE AS-22759/11, SAE AS-22759/33 or NE-MA-HP3. (NOTE: Connectors, which are pre-wired with SAE-AS-22759/33 and stored in a sealed environment, could experience corrosion. Omnetics takes this into consideration when packaging and storing connectors using this wire.

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Micro-D and MIL-DTL-83513 Specifications cont...

4. Mechanical Requirements

4.1. Durability: MIL-DTL-83513 requires that the connectors exhibit no mechanical or electrical defects detrimental to the operation of the connector after a minimum of 500 mating cycles.

4.2. Insert Retention: Insulators will not be disturbed or dislodged from their shell when subjected to an axial load of 50 pounds per square inch (3.5 kilograms per square centimeter).

4.3. Contact Retention: Contacts will withstand a 5 lb. (2.3 kg) axial load for a min. of 5 seconds.

4.4. Crimp Tensile Strength: 26 AWG SAE AS22759/11 wire will not break or pull from crimp joints with an applied force of less than 5.0 lb. (2.3 kg). 26 AWG SAE AS22759/33 shall not fail at a tensile force up to 10 lb. (4.6 kg.). Wire breakage outside of the crimp does not constitute failure.

4.5. Contact Engaging and Separation Force: Maximum engagement force is 6.0 ounces (170.1 g.) with the minimum diameter test sleeve and minimum separation force is 0.5 ounces (14.2 g.) with the maximum diameter test sleeve. Tested using test sleeves as specified in MIL-STD-83513.

4.6. Connector Mating/Unmating Force: Maximum mating and Unmating force will be less than or equal to 10 ounces (283 g.) times the number of contacts.

4.7. Solderability: Printed circuit tails intended for SMT and Thru-Hole soldering and soldercups will meet the solderability requirements of MIL-STD-202, Method 208.

4.8. Solder Heat Resistance: Connectors shall show no evidence of distortion, contact misalignment, or damage to any area of the connector housing after the termination is heated with a soldering iron at 360°C per MIL-DTL-83513.

5. Electrical Requirements

5.1. Current Capacity: Contacts can carry 3.0 amps in continuous operation from -55° C to 125 ° C.

5.2. Dielectric Withstanding Voltage (sea level): Connectors will show no signs of breakdown or flash over at 600 volts ac, rms 60 Hz, per the DWV Test of EIA-364-20.

5.3. Dielectric Withstanding Voltage (70,000 feet): Connectors will show no signs of breakdown or flash over at 150 volts ac, rms 60 Hz, per the DWV Test of EIA-364-20.

5.4. Insulation Resistance: 5,000 Megohms minimum @ 500 VDC IAW EIA-364-21.

5.5. Contact Resistance: 70 millivolt drop maximum with a 2.5 amperes test current in accordance with EIA-364-06 using 26 AWG SAE AS22759/11 wire, 80 millivolt drop maximum using 26 AWG SAE AS22759/33 wire.

5.6. Low Level Contact Resistance: 28 millivolt drop maximum with a test current of 100 milliamperes maximum in accordance with EIA-364-23 using 26 AWG SAE AS22759/11 wire, 32 millivolt drop maximum using 26 AWG SAE AS22759/33 wire.

5.7. Magnetic Permeability: The relative magnetic permeability will not exceed 2 mu when tested with an instrument IAW ASTM A342/A342M, excluding hardware.

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Micro-D and MIL-DTL-83513 Specifications cont...

6. Environmental Requirements

6.1. Shock: 50 G peak acceleration per EIA-364-27, test condition E; when tested for mechanical shock, mated connectors shall not be damaged, and there shall be no loosening of parts. There shall be no interruption of electrical continuity or current flow longer than 1 microsecond.

6.2. Vibration: 20 G peak acceleration over a 12 hour duration per EIA-364-28, test condition IV; when tested for vibration, mated connectors shall not be damaged, and there shall be no loosening of parts. There shall be no interruption of electrical continuity or current flow longer than 1 microsecond.

6.3. Salt spray (corrosion): Mated connectors will show no exposure of base metal due to corrosion which will affect performance after be subjected to the salt spray test of EIA-364-26 condition B. All connector shell finishes must withstand 48 hours of salt spray. Following the test all connectors shall meet the specified requirements for connector mating/unmating forces, contact retention, contact resistance, and low-signal level contact resistance.

6.4. Thermal Vacuum Outgassing: Space class connector assemblies shall have a maximum total mass loss (TML) of 1.0 percent of the original specimen mass, and shall have a maximum volatile condensable material (VCM) content of 0.1 percent of the original specimen mass.

6.5. Fluid Immersion: Connectors will continue to adhere to the mating force requirements set forth by MIL-DTL-83513 after be subjected to a 20 hour immersion in synthetic lubricating oil and 1 hour immersion in a coolant-dielectric fluid synthetic silicate ester base lubricant (Coolanol 25). There will be no degradation of the insulators or encapsulates.

6.6. Material Fungus Resistance: Materials used in the construction of these connectors are fungus inert in accordance with Method 508.6 of MIL-STD-810.

6.7. Thermal Shock: Connectors will withstand 5 cycles of thermal shock from -55° C to 125 ° C per EIA-364-32, condition I. There will be no detrimental damage or degradation of the electrical performance.

6.8. Humidity: These connectors will meet all the humidity testing requirements in accordance with EIA-364-31, Test Method IV (excluding steps 7a & 7b). Post humidity, the connectors will pass a 360 volt DWV test. Within 1 to 2 hours the connectors will have a minimum of 1 megohm insulation resistance when tested at 100 VDC. Following 24 hours, the connectors will have a minimum of 1,000 megohm insulation resistance when tested at 100 VDC.

6.9. Marking Permanency: Any marking on the connector shells of these micro connectors shall meet the requirements of MIL-STD-202, Method 215.

Micro-D

MIL-DTL-83513 Micro-D

M83513 Micro-D

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°C to 125°C.

Electrical-Mechanical Specifications

- Operating Temperature: -55°C to 125°C (200 °C with High Temp Epoxy)
- Dielectric Withstand Voltage: 600 VAC RMS @sea level
- Contact Resistance: 26 milliohms(65 mV) Max @2.5 AMPS
- Current Rating: 3 AMPS per contact
- Durability: 500 Mating Cycles min
- Insulation Resistance: 5000 megohms @ 500 VDC
- Shock: 50 g's with no discontinuties > 1 microsecond
- Vibration: 20 g's with no discontinuties > 1 microsecond
- Thermal Vacuum Outgassing (Space Class): 1.0% max TML, 0.1% max VCM
- Mating/Unmating Force: 10 oz (0.283 kg) max per contact

Material Specifications

- 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
- Interfacial Seal: Silicone Elastomer per A-A-59588
- Hardware: Stainless Steel, 300 Series, Passivated per SAE AMS-2700

Shell Options

- Aluminum with Nickel Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Nickel per SAE-AMS-2404
- Stainless Steel: 300 Series, Passivated per SAE AMS-2700
- Aluminum with Cadmium Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Cadmium With Yellow Chromate Conversion per SAE-AMS-QQ-P-416, Type II, Class 3 Over Nickel Underplate

CAGE Code 61873

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Omnetics Connector Corp. • 7260 Commerce Circle E • Minneapolis, MN 55432-3103 • Ph: 763-572-0656 • Fax: 763-572-3925
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E-mail: sales@omnetics.com

M83513/01 Solder Cup Male Micro-D Ordering Guide

Example:
MMDP/01-DN

Series	Insert Arangement	Shell Material and Finish
MMDP/01	A = 9 B = 15 C = 21 D = 25 E = 31 F = 37 G = 51	**C** *Aluminum Shell, Cadmiun Plated* **N (STD)** *Aluminum Shell Electroless Nickel Plated* **P** *Stainless Steel Shell Passivated*

M83513/02 Solder Cup Female Micro-D Ordering Guide

Example:
MMDS/02-DN

Series	Insert Arangement	Shell Material and Finish
MMDS/02	A = 9 B = 15 C = 21 D = 25 E = 31 F = 37 G = 51	**C** *Aluminum Shell, Cadmiun Plated* **N (STD)** *Aluminum Shell Electroless Nickel Plated* **P** *Stainless Steel Shell Passivated*

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Micro-D

MIL-DTL-83513 Micro-D

M83513 Micro-D

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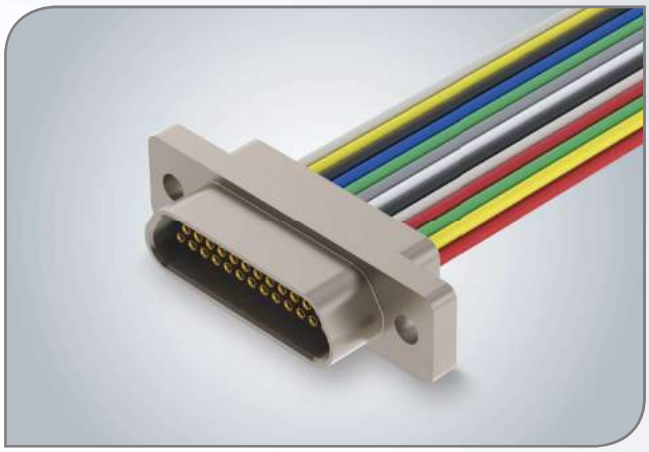
Highly rugged and compact designs in shell styles from 9 to 51 contacts. The Micro-D connectors incorporate Omnetics one-piece flex pin design for greater shock and vibration resistance. The high reliability gold plated flex pin is designed for >2,000 mating cycles. Omnetics Micro-D connectors will operate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



Electrical-Mechanical Specifications

- Operating Temperature: -55°C to 125°C (200 °C with High Temp Epoxy)
- Dielectric Withstand Voltage: 600 VAC RMS @sea level
- Contact Resistance: 26 milliohms(65 mV) Max @2.5 AMPS
- Current Rating: 3 AMPS per contact
- Durability: 500 Mating Cycles min
- Insulation Resistance: 5000 megohms @ 500 VDC
- Shock: 50 g's with no discontinuties > 1 microsecond
- Vibration: 20 g's with no discontinuties > 1 microsecond
- Thermal Vacuum Outgassing (Space Class): 1.0% max TML, 0.1% max VCM
- Mating/Unmating Force: 10 oz (0.283 kg) max per contact

Material Specifications

- 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
- Interfacial Seal: Silicone Elastomer per A-A-59588
- Hardware: Stainless Steel, 300 Series, Passivated per SAE AMS-2700

Shell Options

- Aluminum with Nickel Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Nickel per SAE-AMS-2404
- Stainless Steel: 300 Series, Passivated per SAE AMS-2700
- Aluminum with Cadmium Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Cadmium With Yellow Chromate Conversion per SAE-AMS-QQ-P-416, Type II, Class 3 Over Nickel Underplate

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M83513/03 Wired Male Micro-D Ordering Guide

Example:
MMDP/03-D03N

Series	Insert Arangement	Wired Type	Shell Material and Finish
MMDP/03	A = 9 B = 15 C = 21 D = 25 E = 31 F = 37 G = 51	01 = M22759/11-26-9, 18 INCHES 02 = M22759/11-26-9, 36 INCHES 03 = M22759/11-26-#, 18 INCHES 04 = M22759/11-26-#, 36 INCHES 09 = M22759/33-26-9, 18 INCHES 10 = M22759/33-26-9, 36 INCHES 11 = M22759/33-26-#, 18 INCHES 12 = M22759/33-26-#, 36 INCHES 13 = M22759/11-26-9, 72 INCHES 14 = M22759/11-26-#, 72 INCHES 15 = M22759/33-26-9, 72 INCHES 16 = M22759/33-26-#, 72 INCHES	**C** *Aluminum Shell, Cadmiun Plated* **N (STD)** *Aluminum Shell Electroless Nickel Plated* **P** *Stainless Steel Shell Passivated*

M83513/04 Solder Cup Female Micro-D Ordering Guide

Series	Insert Arangement	Wired Type	Shell Material and Finish
MMDS/04	A = 9 B = 15 C = 21 D = 25 E = 31 F = 37 G = 51	01 = M22759/11-26-9, 18 INCHES 02 = M22759/11-26-9, 36 INCHES 03 = M22759/11-26-#, 18 INCHES 04 = M22759/11-26-#, 36 INCHES 09 = M22759/33-26-9, 18 INCHES 10 = M22759/33-26-9, 36 INCHES 11 = M22759/33-26-#, 18 INCHES 12 = M22759/33-26-#, 36 INCHES 13 = M22759/11-26-9, 72 INCHES 14 = M22759/11-26-#, 72 INCHES 15 = M22759/33-26-9, 72 INCHES 16 = M22759/33-26-#, 72 INCHES	**C** *Aluminum Shell, Cadmiun Plated* **N (STD)** *Aluminum Shell Electroless Nickel Plated* **P** *Stainless Steel Shell Passivated*

Metal Shell Micro-D Horizontal Surface Mount (TYPE HO)

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°C to 125°C.

Electrical-Mechanical Specifications

- Operating Temperature: -55°C to 125°C (200 °C with High Temp Epoxy)
- Dielectric Withstand Voltage: 600 VAC RMS @sea level
- Contact Resistance: 26 milliohms(65 mV) Max @2.5 AMPS
- Current Rating: 3 AMPS per contact
- Durability: 500 Mating Cycles min
- Insulation Resistance: 5000 megohms @ 500 VDC
- Shock: 50 g's with no discontinuties > 1 microsecond
- Vibration: 20 g's with no discontinuties > 1 microsecond
- Thermal Vacuum Outgassing (Space Class): 1.0% max TML, 0.1% max VCM
- Mating/Unmating Force: 10 oz (0.283 kg) max per contact

Material Specifications

- 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
- Interfacial Seal: Silicone Elastomer per A-A-59588
- Hardware: Stainless Steel, 300 Series, Passivated per SAE AMS-2700

Shell Options

- Aluminum with Nickel Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Nickel per SAE-AMS-2404
- Stainless Steel: 300 Series, Passivated per SAE AMS-2700
- Aluminum with Cadmium Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Cadmium With Yellow Chromate Conversion per SAE-AMS-QQ-P-416, Type II, Class 3 Over Nickel Underplate

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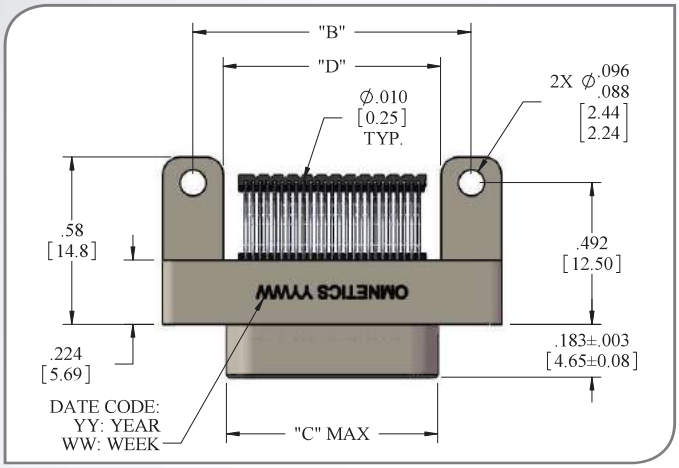
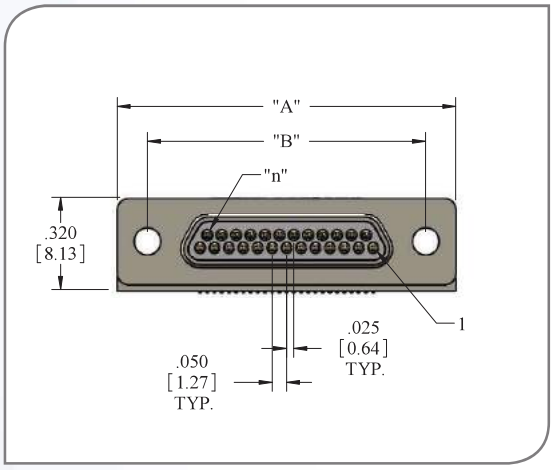
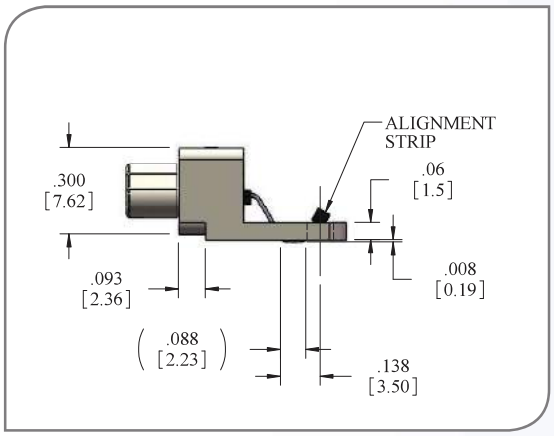
Metal Shell Micro-D Male Horizontal Surface Mount (TYPE HO)







Contacts	English (IN)				Metric (mm)			
"n"	Rows	"A"	"B"	"C"	"D"	"A"	"B"	"C"	"D"
9	2	.775	.565	.334	.355	19.69	14.35	8.48	9.02
15	2	.925	.715	.484	.505	23.50	18.16	12.29	12.83
21	2	1.075	.865	.634	.655	27.31	21.97	16.10	16.64
25	2	1.175	.965	.734	.755	29.85	24.51	18.64	19.18
31	2	1.325	1.115	.884	.905	33.66	28.32	22.45	22.99
37	2	1.475	1.265	1.034	1.055	37.47	32.13	26.26	26.80
51	2	1.825	1.615	1.384	1.405	46.36	41.02	35.15	35.69

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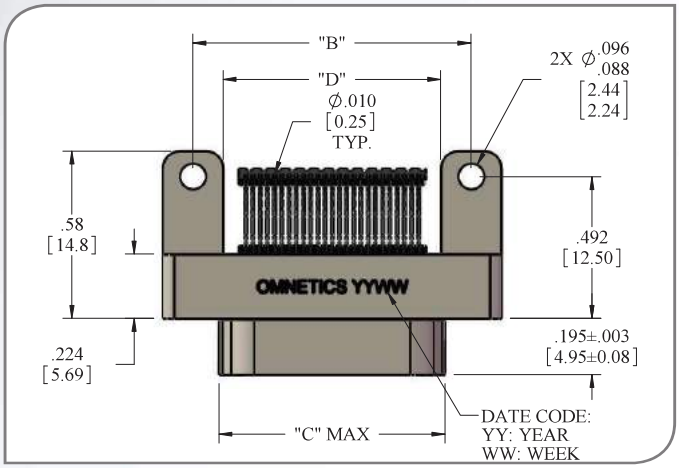
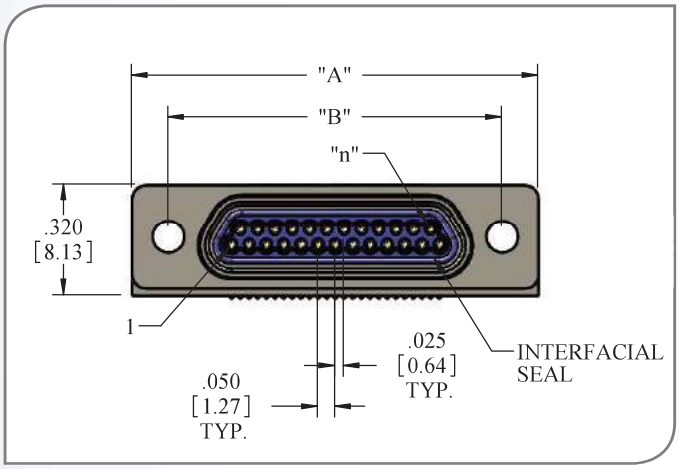
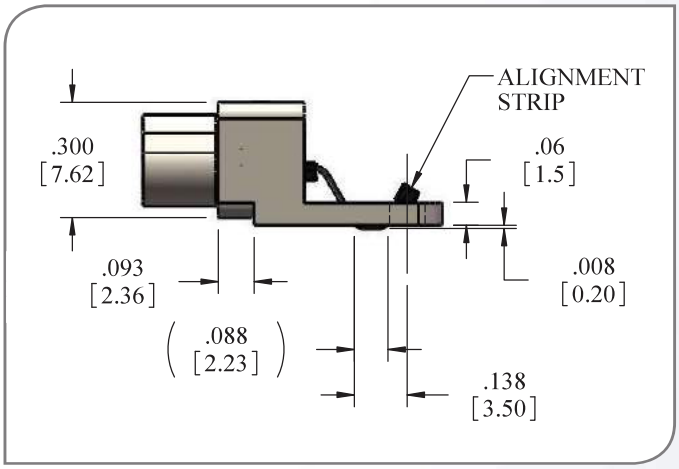
Metal Shell Micro-D Female Horizontal Surface Mount (TYPE HO)







Contacts	English (IN)				Metric (mm)			
"n"	Rows	"A"	"B"	"C"	"D"	"A"	"B"	"C"	"D"
9	2	.775	.565	.400	.355	19.69	14.35	10.17	9.02
15	2	.925	.715	.550	.505	23.50	18.16	13.98	12.83
21	2	1.075	.865	.700	.655	27.31	21.97	17.79	16.64
25	2	1.175	.965	.800	.755	29.85	24.51	20.33	19.18
31	2	1.325	1.115	.950	.905	33.66	28.32	24.14	22.99
37	2	1.475	1.265	1.100	1.055	37.47	32.13	27.95	26.80
51	2	1.825	1.615	1.450	1.405	46.36	41.02	36.84	35.69

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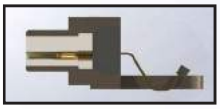
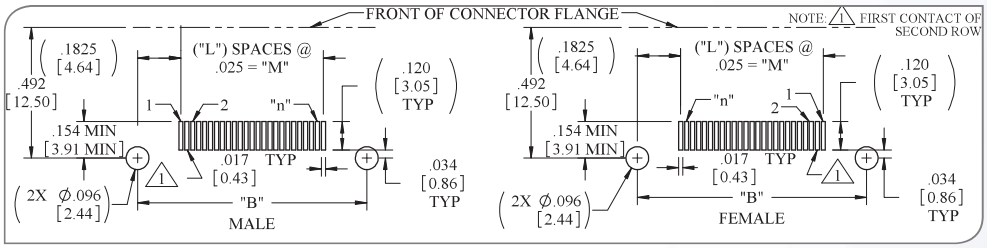
Metal Shell Micro-D Horizontal Surface Mount (TYPE H0)

Series	# of Contacts	Shell Material and Finish	Hardware	Termination Type	Options
MMD Male (P - Pin)	**009** **015** **021** **025** **031** **037** **051***	**N (STD)** Aluminum Shell, Electroless Nickel Plated	**00** - NONE, Ø .092 HOLE (STD)	**H0** Horizontal Surface Mount	**HTE** High Temp. Epoxy
		**C** Aluminum Shell, Cadmium Plated	**01** - FIXED JACK-POSTS (STD)		
Female (S-Socket)	* (use 512 for two row 051)	**B** Aluminum Shell, Black Anodized	**02** - JACKSCREWS, STD LENGTH, HEX HEAD (STD)		**RH** RoHS COMPLIANT
		**P** Stainless Steel Shell, Passivated	**03** - JACKSCREWS, STD LENGTH, SLOTTED		
			04 - JACKSCREWS, LONG, HEX		
			05 - JACKSCREWS LONG, SLOTTED		

Example

MMDP-025-N00-H0



Contacts / English (IN) / Metric (mm) / Standard

"n"	Rows	"B"	"L"	"M"	"B"	"L"	"M"	FEMALE	MALE
9	2	.565	8	.200	14.35	8	5.08	A99601-009	A98601-009
15	2	.715	14	.350	18.16	14	8.89	A99601-015	A98601-015
21	2	.865	20	.500	21.97	20	12.70	A99601-021	A98601-021
25	2	.965	24	.600	24.51	24	15.24	A99601-025	A98601-025
31	2	1.115	30	.750	28.32	30	19.05	A99601-031	A98601-031
37	2	1.265	36	.900	32.13	36	22.86	A99601-037	A98601-037
51	2	1.615	50	1.250	41.02	50	31.75	A99601-512	A98601-512

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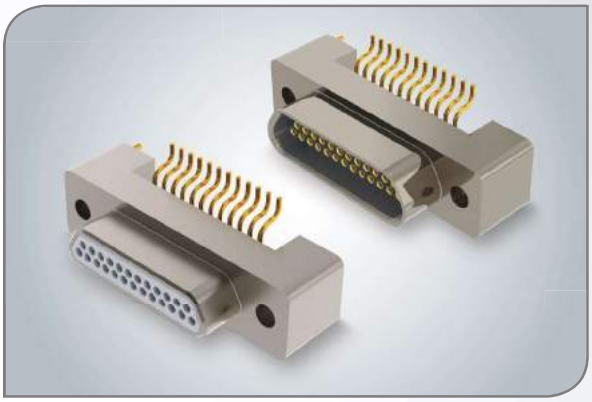
Micro-D

Standard Micro-D

Metal Shell Vertical SMT Micro-D

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°C to 125°C.



Electrical-Mechanical Specifications

- Operating Temperature: -55°C to 125°C (200 °C with High Temp Epoxy)
- Dielectric Withstand Voltage: 600 VAC RMS @sea level
- Contact Resistance: 26 milliohms(65 mV) Max @2.5 AMPS
- Current Rating: 3 AMPS per contact
- Durability: 500 Mating Cycles min
- Insulation Resistance: 5000 megohms @ 500 VDC
- Shock: 50 g's with no discontinuties > 1 microsecond
- Vibration: 20 g's with no discontinuties > 1 microsecond
- Thermal Vacuum Outgassing (Space Class): 1.0% max TML, 0.1% max VCM
- Mating/Unmating Force: 10 oz (0.283 kg) max per contact

Material Specifications

- 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
- Interfacial Seal: Silicone Elastomer per A-A-59588
- Hardware: Stainless Steel, 300 Series, Passivated per SAE AMS-2700

Shell Options

- Aluminum with Nickel Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Nickel per SAE-AMS-2404
- Stainless Steel: 300 Series, Passivated per SAE AMS-2700
- Aluminum with Cadmium Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Cadmium With Yellow Chromate Conversion per SAE-AMS-QQ-P-416, Type II, Class 3 Over Nickel Underplate

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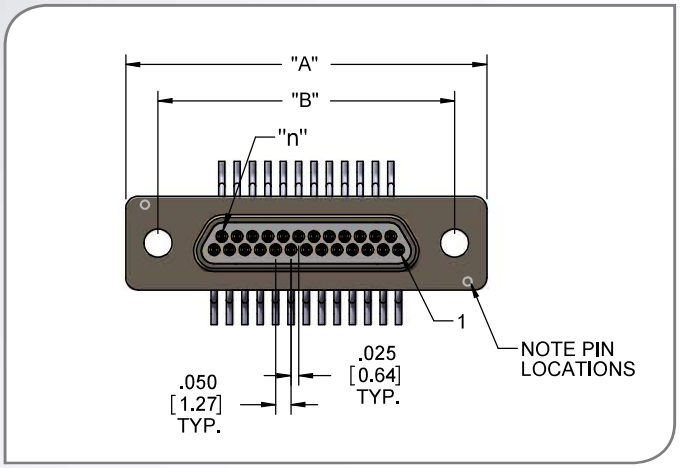
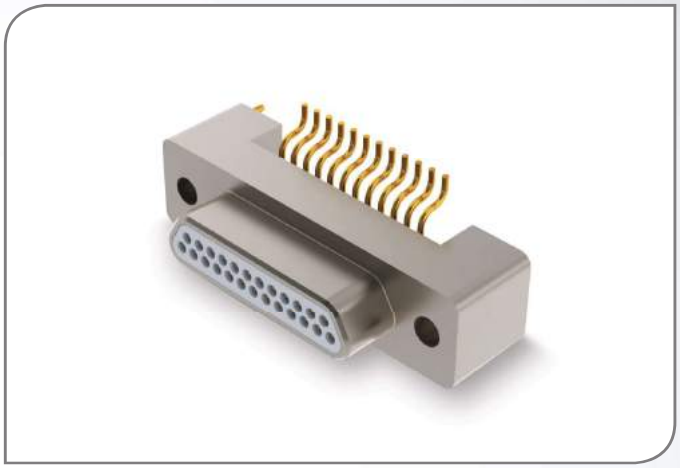
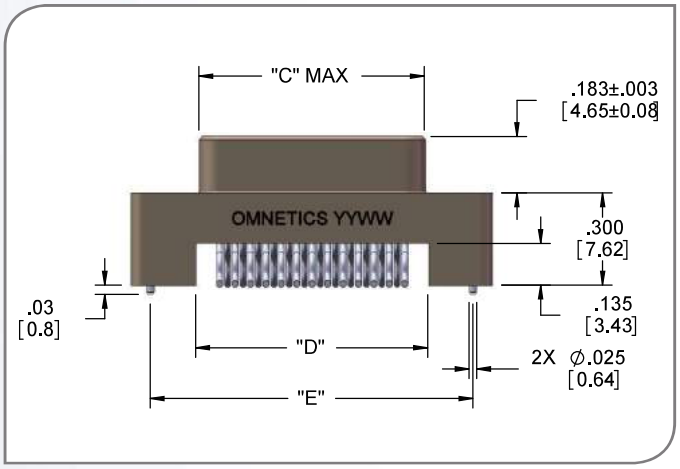
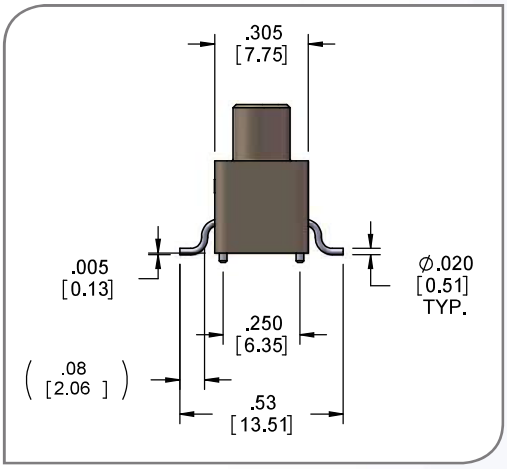
Metal Shell Micro-D Male Vertical Surface Mount (TYPE V0)









Contacts — English (IN) — Metric (mm)

"n"	Rows	"A"	"B"	"C"	"D"	"E"	"A"	"B"	"C"	"D"	"E"
9	2	.775	.565	.334	.355	.650	19.69	14.35	8.48	9.02	16.51
15	2	.925	.715	.484	.505	.800	23.50	18.16	12.29	12.83	20.32
21	2	1.075	.865	.634	.655	.950	27.31	21.97	16.10	16.64	24.13
25	2	1.175	.965	.734	.755	1.050	29.85	24.51	18.64	19.18	26.67
31	2	1.325	1.115	.884	.905	1.200	33.66	28.32	22.45	22.99	30.48
37	2	1.475	1.265	1.034	1.055	1.350	37.47	32.13	26.26	26.80	34.29
51	2	1.825	1.615	1.384	1.405	1.700	46.36	41.02	35.15	35.69	43.18

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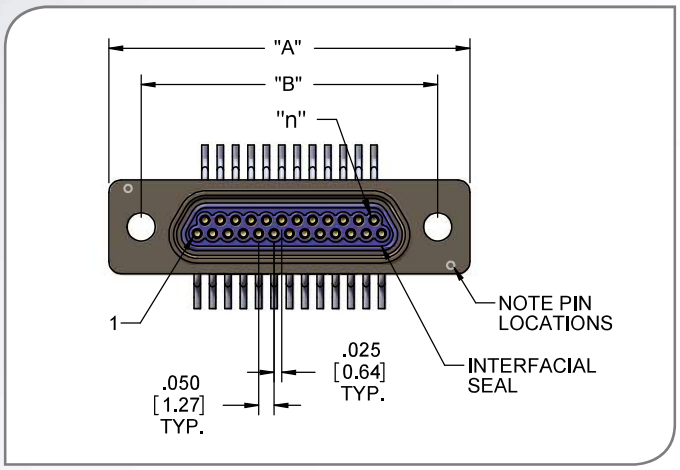
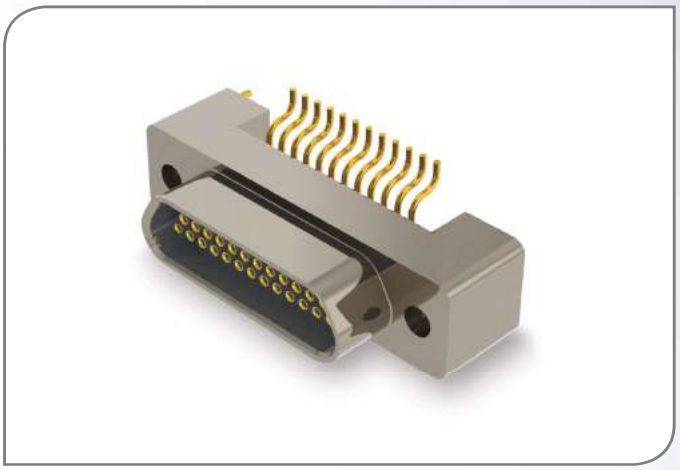
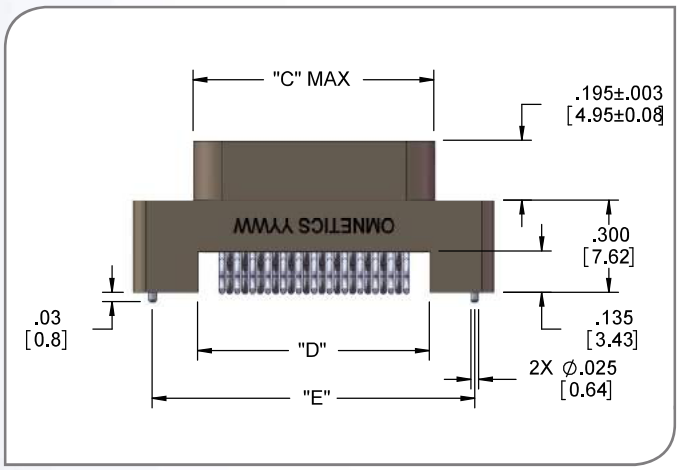
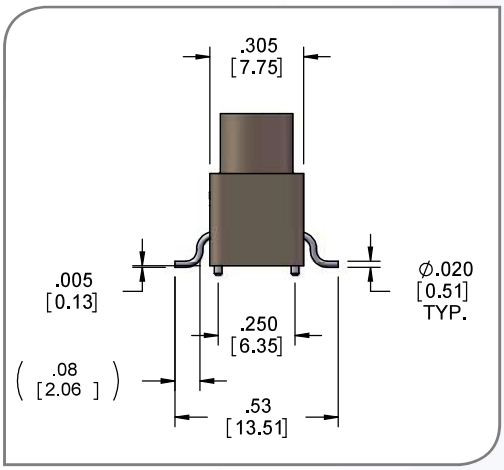
Metal Shell Micro-D Female Vertical Surface Mount (TYPE V0)









Contacts	English (IN)					Metric (mm)				
"n"	Rows	"A"	"B"	"C"	"D"	"E"	"A"	"B"	"C"	"D"	"E"
9	2	.775	.565	.400	.355	.650	19.69	14.35	10.17	9.02	16.51
15	2	.925	.715	.550	.505	.800	23.50	18.16	13.98	12.83	20.32
21	2	1.075	.865	.700	.655	.950	27.31	21.97	17.79	16.64	24.13
25	2	1.175	.965	.800	.755	1.050	29.85	24.51	20.33	19.18	26.67
31	2	1.325	1.115	.950	.905	1.200	33.66	28.32	24.14	22.99	30.48
37	2	1.475	1.265	1.100	1.055	1.350	37.47	32.13	27.95	26.80	34.29
51	2	1.825	1.615	1.450	1.405	1.700	46.36	41.02	36.84	35.69	43.18

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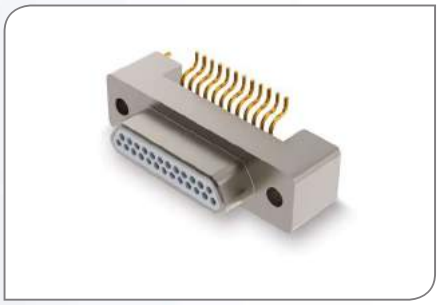
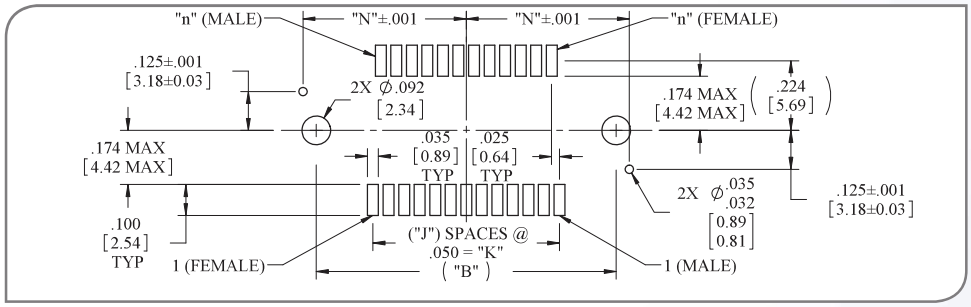
Metal Shell Micro-D Vertical Surface Mount (TYPE V0)

Series	# of Contacts	Shell Material and Finish	Hardware	Termination Type	Options
MMD Male (P - Pin)	**009** **015** **021** **025** **031** **037** **051***	**N (STD)** Aluminum Shell, Electroless Nickel Plated	**00** - NONE, Ø .092 HOLE (STD)	**V0** Vertical Surface Mount	**HTE** High Temp. Epoxy
Female (S-Socket)	512 (Two row 051)	**C** Aluminum Shell, Cadmium Plated	**01** - FIXED JACK-POSTS (STD)		**RH** RoHS COMPLIANT
	Options: 001-051	**B** Aluminum Shell, Black Anodized	**02** - JACKSCREWS, STD LENGTH, HEX HEAD (STD)		
		P Stainless Steel Shell, Passivated	**03** - JACKSCREWS, STD LENGTH, SLOTTED		
			04 - JACKSCREWS, LONG, HEX		
			05 - JAC SCREWS LONG, SLOTTED		

Example



MMDP-025-N00-V0-HT



Contacts	English (IN)				Metric (mm)				Standard	
"n"	Rows	"B"	"J"	"K"	"N"	"B"	"J"	"K"	"N"	FEMALE	MALE
9	2	.565	4	.200	.325	14.35	4	5.08	8.26	A99701-009	A98701-009
15	2	.715	7	.350	.400	18.16	7	8.89	10.16	A99701-015	A98701-015
21	2	.865	10	.500	.475	21.97	10	12.70	12.07	A99701-021	A98701-021
25	2	.965	12	.600	.525	24.51	12	15.24	13.34	A99701-025	A98701-025
31	2	1.115	15	.750	.600	28.32	15	19.05	15.24	A99701-031	A98701-031
37	2	1.265	18	.900	.675	32.13	18	22.86	17.15	A99701-037	A98701-037
51	2	1.615	25	1.250	.850	41.02	25	31.75	21.59	A99701-512	A98701-512

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Micro-D

Standard Micro-D

Metal Shell Micro-D Card Edge Surface Mount (TYPE CO)

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°C to 125°C

Electrical-Mechanical Specifications

- Operating Temperature: -55°C to 125°C (200 °C with High Temp Epoxy)
- Dielectric Withstand Voltage: 600 VAC RMS @sea level
- Contact Resistance: 26 milliohms(65 mV) Max @2.5 AMPS
- Current Rating: 3 AMPS per contact
- Durability: 500 Mating Cycles min
- Insulation Resistance: 5000 megohms @ 500 VDC
- Shock: 50 g's with no discontinuties > 1 microsecond
- Vibration: 20 g's with no discontinuties > 1 microsecond
- Thermal Vacuum Outgassing (Space Class): 1.0% max TML, 0.1% max VCM
- Mating/Unmating Force: 10 oz (0.283 kg) max per contact

Material Specifications

- 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
- Interfacial Seal: Silicone Elastomer per A-A-59588
- Hardware: Stainless Steel, 300 Series, Passivated per SAE AMS-2700

Shell Options

- Aluminum with Nickel Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Nickel per SAE-AMS-2404
- Stainless Steel: 300 Series, Passivated per SAE AMS-2700
- Aluminum with Cadmium Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Cadmium With Yellow Chromate Conversion per SAE-AMS-QQ-P-416, Type II, Class 3 Over Nickel Underplate

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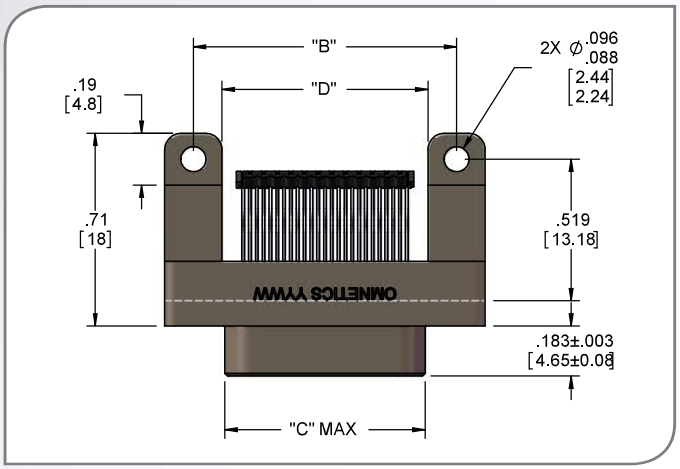
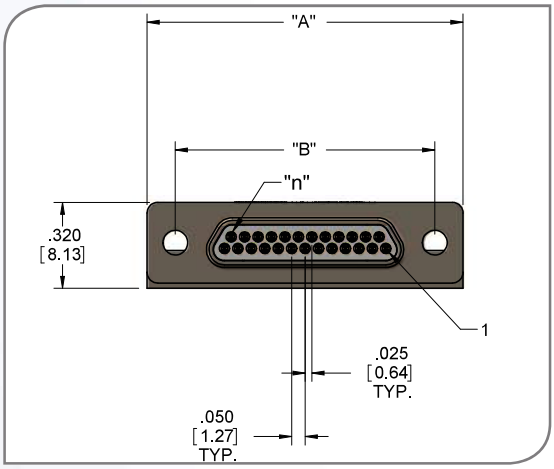
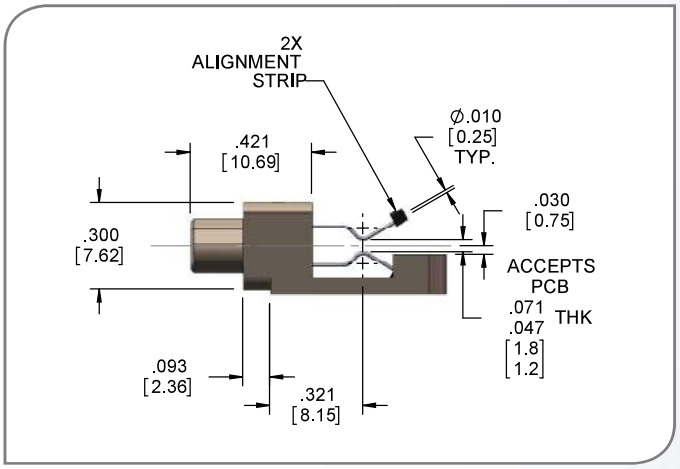
Metal Shell Male Micro-D Card Edge Surface Mount (TYPE CO)







Contacts	English (IN)				Metric (mm)			
"n"	Rows	"A"	"B"	"C"	"D"	"A"	"B"	"C"	"D"
9	2	.775	.565	.334	.355	19.69	14.35	8.48	9.02
15	2	.925	.715	.484	.505	23.50	18.16	12.29	12.83
21	2	1.075	.865	.634	.655	27.31	21.97	16.10	16.64
25	2	1.175	.965	.734	.755	29.85	24.51	18.64	19.18
31	2	1.325	1.115	.884	.905	33.66	28.32	22.45	22.99
37	2	1.475	1.265	1.034	1.055	37.47	32.13	26.26	26.80
51	2	1.825	1.615	1.384	1.405	46.36	41.02	35.15	35.69

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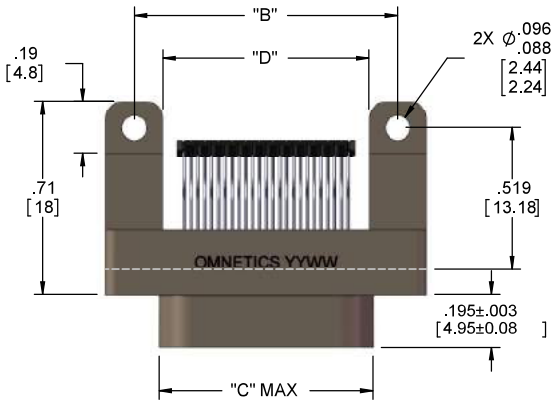
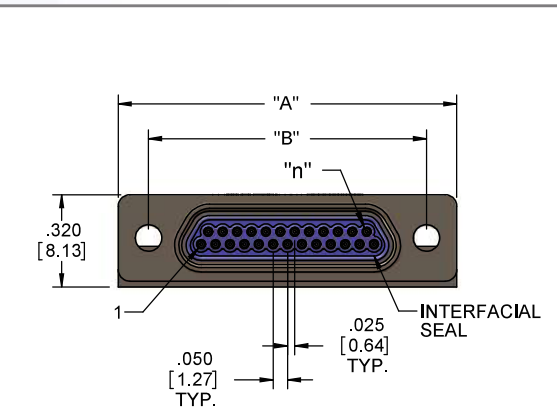
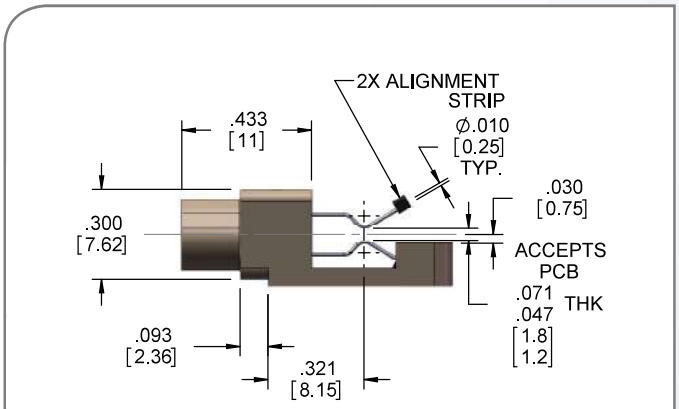
Metal Shell Female Micro-D Card Edge Surface Mount (TYPE CO)







Contacts	English (IN)				Metric (mm)			
"n"	Rows	"A"	"B"	"C"	"D"	"A"	"B"	"C"	"D"
9	2	.775	.565	.400	.355	19.69	14.35	10.17	9.02
15	2	.925	.715	.550	.505	23.50	18.16	13.98	12.83
21	2	1.075	.865	.700	.655	27.31	21.97	17.79	16.64
25	2	1.175	.965	.800	.755	29.85	24.51	20.33	19.18
31	2	1.325	1.115	.950	.905	33.66	28.32	24.14	22.99
37	2	1.475	1.265	1.100	1.055	37.47	32.13	27.95	26.80
51	2	1.825	1.615	1.450	1.405	46.36	41.02	36.84	35.69

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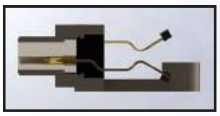
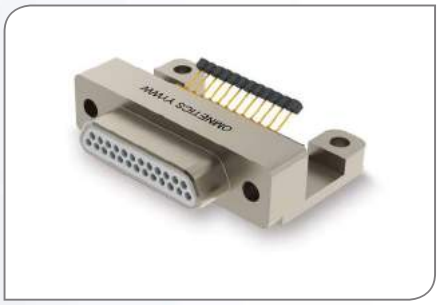
Micro-D

Standard Micro-D

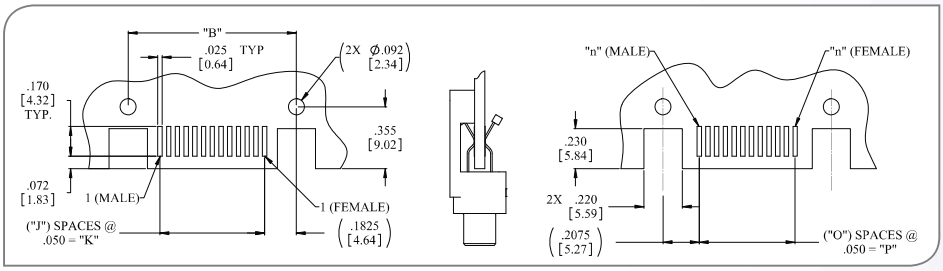
Metal Shell Micro-D Card Edge Surface Mount (TYPE C0)

Series	# of Contacts	Shell Material and Finish	Hardware	Termination Type	Options
MMD Male (P - Pin)	**009** **015** **021** **025** **031** **037** **051***	**N (STD)** Aluminum Shell, Electroless Nickel Plated	**00** - NONE, Ø .092 HOLE (STD)	**C0** Card Edge Surface Mount	**HTE** High Temp. Epoxy
		**C** Aluminum Shell, Cadmium Plated	**01** - FIXED JACK-POSTS (STD)		
Female (S-Socket)	(Two row 512)	**B** Aluminum Shell, Black Anodized	**02** - JACKSCREWS, STD LENGTH, HEX HEAD (STD)		**RH** RoHS COMPLIANT
	Options: 001-051	**P** Stainless Steel Shell, Passivated	**03** - JACKSCREWS, STD LENGTH, SLOTTED		
			04 - JACKSCREWS, LONG, HEX		
			05 - JAC SCREWS LONG, SLOTTED		

Example



MMDP-025-N00-C0-RH



Contacts — English (IN) — Metric (mm)

"n"	Rows	"B"	"J"	"K"	"O"	"P"	"B"	"J"	"K"	"O"	"P"
9	2	.565	4	.200	3	.150	14.35	4	5.08	3	3.81
15	2	.715	7	.350	6	.300	18.16	7	8.89	6	7.62
21	2	.865	10	.500	9	.450	21.97	10	12.70	9	11.43
25	2	.965	12	.600	11	.550	24.51	12	15.24	11	13.97
31	2	1.115	15	.750	14	.700	28.32	15	19.05	14	17.78
37	2	1.265	18	.900	17	.850	32.13	18	22.86	17	21.59
51	2	1.615	25	1.250	24	1.200	41.02	25	31.75	24	30.48

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Micro-D

Metal Shell Micro-D Flex Tail (TYPE FF)

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°C to 125°C.

Electrical-Mechanical Specifications

- Operating Temperature: -55°C to 125°C (200 °C with High Temp Epoxy)
- Dielectric Withstand Voltage: 600 VAC RMS @sea level
- Contact Resistance: 26 milliohms(65 mV) Max @2.5 AMPS
- Current Rating: 3 AMPS per contact
- Durability: 500 Mating Cycles min
- Insulation Resistance: 5000 megohms @ 500 VDC
- Shock: 50 g's with no discontinuties > 1 microsecond
- Vibration: 20 g's with no discontinuties > 1 microsecond
- Thermal Vacuum Outgassing (Space Class): 1.0% max TML, 0.1% max VCM
- Mating/Unmating Force: 10 oz (0.283 kg) max per contact

Material Specifications

- 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
- Interfacial Seal: Silicone Elastomer per A-A-59588
- Hardware: Stainless Steel, 300 Series, Passivated per SAE AMS-2700

Shell Options

- Aluminum with Nickel Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Nickel per SAE-AMS-2404
- Stainless Steel: 300 Series, Passivated per SAE AMS-2700
- Aluminum with Cadmium Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Cadmium With Yellow Chromate Conversion per SAE-AMS-QQ-P-416, Type II, Class 3 Over Nickel Underplate

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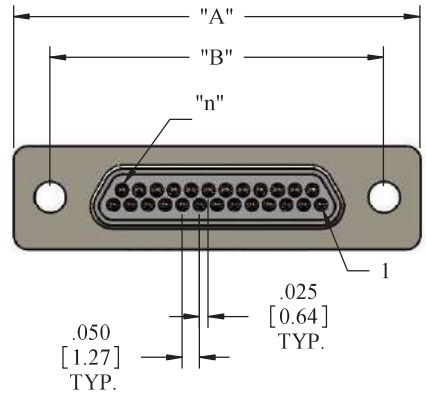
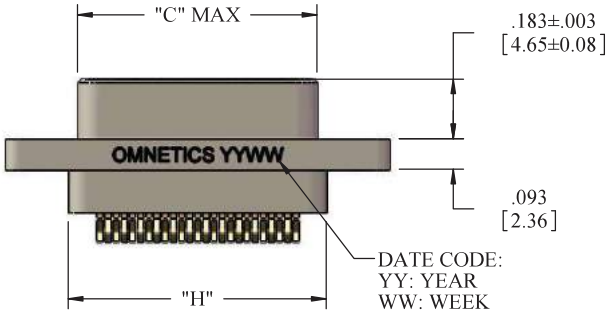
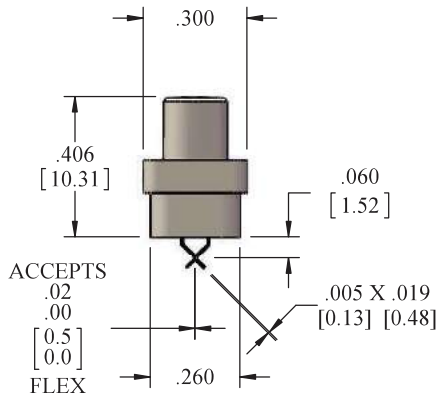
Metal Shell Male Micro-D Flex Tail (TYPE FF)







Contacts	English (IN)				Metric (mm)			
"n"	Rows	"A"	"B"	"C"	"H"	"A"	"B"	"C"	"H"
9	2	.775	.565	.334	.390	19.69	14.35	8.48	9.91
15	2	.925	.715	.484	.540	23.50	18.16	12.29	13.72
21	2	1.075	.865	.634	.690	27.31	21.97	16.10	17.53
25	2	1.175	.965	.734	.790	29.85	24.51	18.64	20.07
31	2	1.325	1.115	.884	.940	33.66	28.32	22.45	23.88
37	2	1.475	1.265	1.034	1.090	37.47	32.13	26.26	27.69
51	2	1.825	1.615	1.384	1.440	46.36	41.02	35.15	36.58

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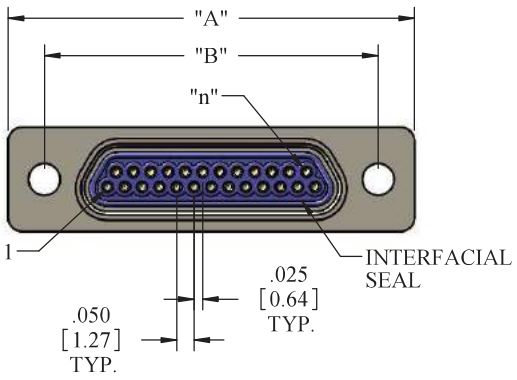
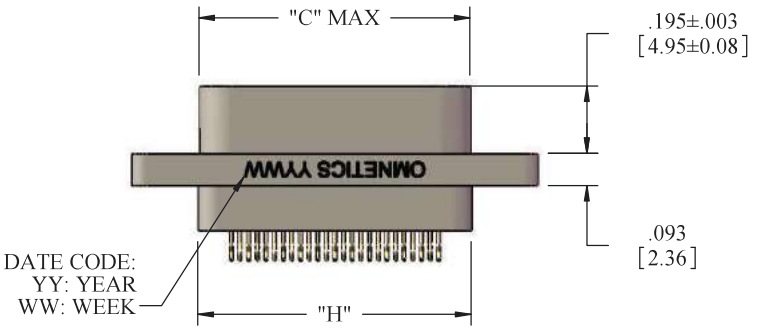
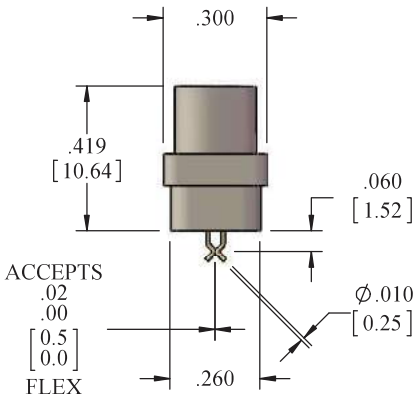
Metal Shell Female Micro-D Flex Tail (TYPE FF)







Contacts / English (IN) / Metric (mm)

"n"	Rows	"A"	"B"	"C"	"H"	"A"	"B"	"C"	"H"
9	2	.775	.565	.400	.390	19.69	14.35	8.48	9.91
15	2	.925	.715	.550	.540	23.50	18.16	12.29	13.72
21	2	1.075	.865	.700	.690	27.31	21.97	16.10	17.53
25	2	1.175	.965	.800	.790	29.85	24.51	18.64	20.07
31	2	1.325	1.115	.950	.940	33.66	28.32	22.45	23.88
37	2	1.475	1.265	1.100	1.090	37.47	32.13	26.26	27.69
51	2	1.825	1.615	1.450	1.440	46.36	41.02	35.15	36.58

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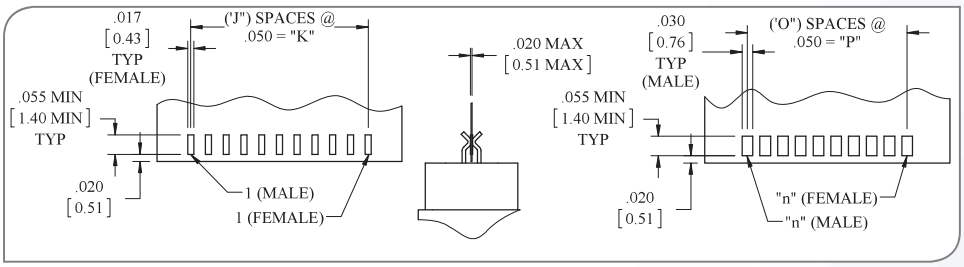
Metal Shell Micro-D Flex Tail (TYPE FF)

Series	# of Contacts	Shell Material and Finish	Hardware	Termination Type	Options
MMD Male (P - Pin)	**009** **015** **021** **025** **031** **037** **512**	**N (STD)** Aluminum Shell, Electroless Nickel Plated	**00** - NONE, Ø .092 HOLE (STD) **01** - FIXED JACKPOSTS (STD) **02** - JACKSCREWS, STD LENGTH, HEX (STD) **03** - JACKSCREWS, STD LENGTH, SLOTTED **04** - JACKSCREWS, LONG, HEX **05** - JACKSCREWS, LONG, SLOTTED **06** - FLOAT MOUNT, FRONT MOUNTED **07** - FLOAT MOUNT, REAR MOUNTED	**FF** Flex Tail	**HTE** High Temp. Epoxy
Female (S-Socket)	(Two row 051)	**C** Aluminum Shell, Cadmium Plated			**RH** RoHS COMPLIANT
	Options: 001-051	**B** Aluminum Shell, Black Anodized			
		P Stainless Steel Shell, Passivated			

Example

MMDS-025-N00-FF-HTE



Contacts — English (IN) — Metric (mm)

"n"	Rows	"J"	"K"	"O"	"P"	"J"	"K"	"O"	"P"
9	2	4	.200	3	.150	4	5.08	3	3.81
15	2	7	.350	6	.300	7	8.89	6	7.62
21	2	10	.500	9	.450	10	12.70	9	11.43
25	2	12	.600	11	.550	12	15.24	11	13.97
31	2	15	.750	14	.700	15	19.05	14	17.78
37	2	18	.900	17	.850	18	22.86	17	21.59
51	2	25	1.250	24	1.200	25	31.75	24	30.48

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Micro-D

Standard Micro-D

Metal Shell Micro-D Straight Thru-Hole (TYPE S2)

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 -55ºC to 125ºC.

Electrical-Mechanical Specifications

- Operating Temperature: -55ºC to 125ºC (200 ºC with High Temp Epoxy)
- Dielectric Withstand Voltage: 600 VAC RMS @sea level
- Contact Resistance: 26 milliohms(65 mV) Max @2.5 AMPS
- Current Rating: 3 AMPS per contact
- Durability: 500 Mating Cycles min
- Insulation Resistance: 5000 megohms @ 500 VDC
- Shock: 50 g's with no discontinuties > 1 microsecond
- Vibration: 20 g's with no discontinuties > 1 microsecond
- Thermal Vacuum Outgassing (Space Class): 1.0% max TML, 0.1% max VCM
- Mating/Unmating Force: 10 oz (0.283 kg) max per contact

Material Specifications

- 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
- Interfacial Seal: Silicone Elastomer per A-A-59588
- Hardware: Stainless Steel, 300 Series, Passivated per SAE AMS-2700

Shell Options

- Aluminum with Nickel Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Nickel per SAE-AMS-2404
- Stainless Steel: 300 Series, Passivated per SAE AMS-2700
- Aluminum with Cadmium Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Cadmium With Yellow Chromate Conversion per SAE-AMS-QQ-P-416, Type II, Class 3 Over Nickel Underplate

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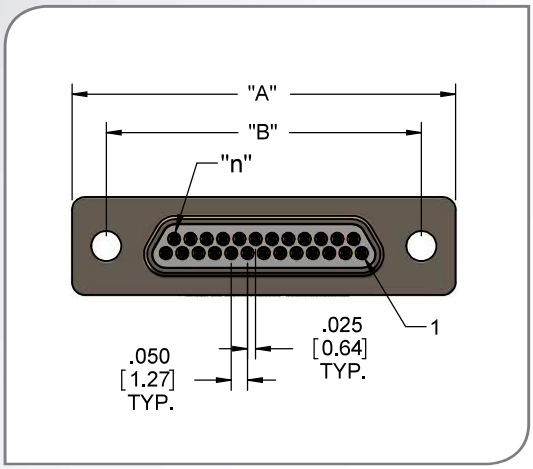
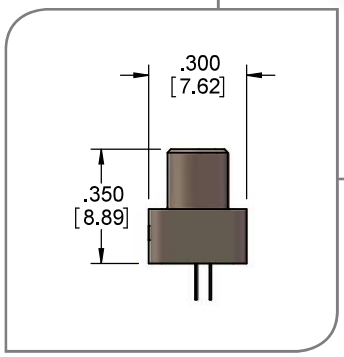
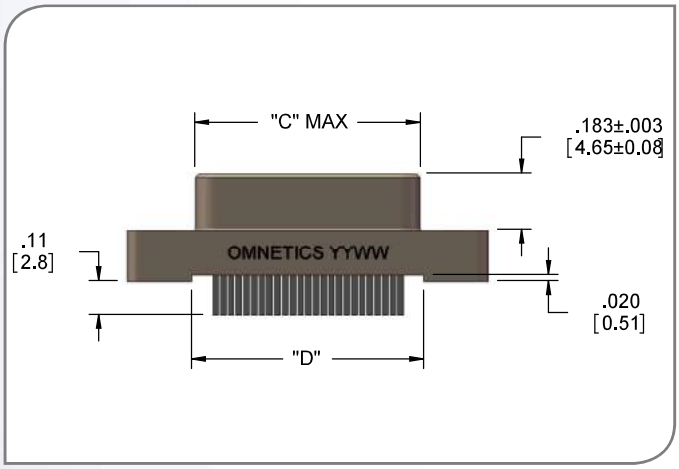
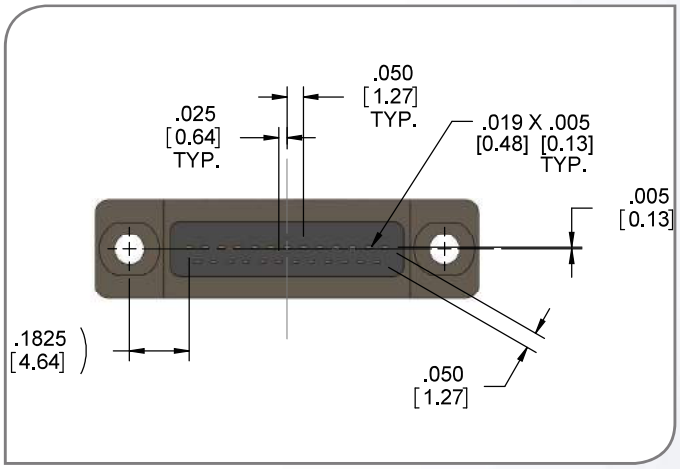
Metal Shell Micro-D Male Straight Thru-Hole (TYPE S2)









Contacts	English (IN)				Metric (mm)			
"n"	Rows	"A"	"B"	"C"	"D"	"A"	"B"	"C"	"D"
9	2	.775	.565	.334	.355	19.69	14.35	8.48	9.02
15	2	.925	.715	.484	.505	23.50	18.16	12.29	12.83
21	2	1.075	.865	.634	.655	27.31	21.97	16.10	16.64
25	2	1.175	.965	.734	.755	29.85	24.51	18.64	19.18
31	2	1.325	1.115	.884	.905	33.66	28.32	22.45	22.99
37	2	1.475	1.265	1.034	1.055	37.47	32.13	26.26	26.80
51	2	1.825	1.615	1.384	1.405	46.36	41.02	35.15	35.69

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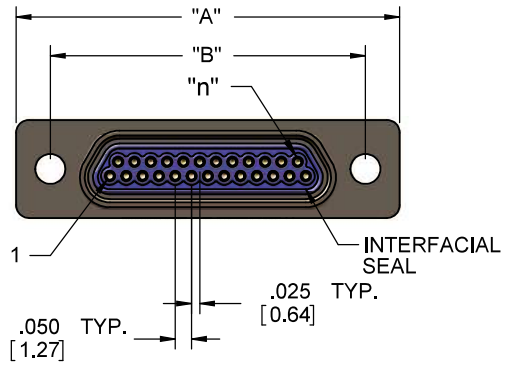
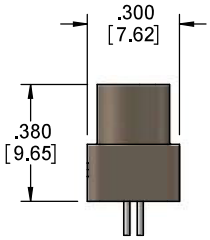
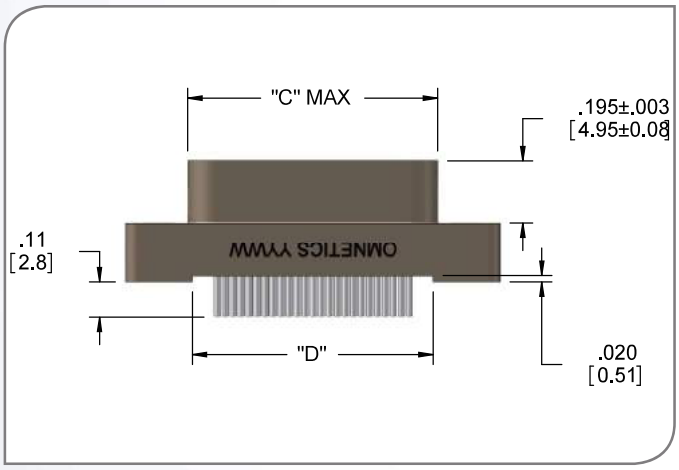
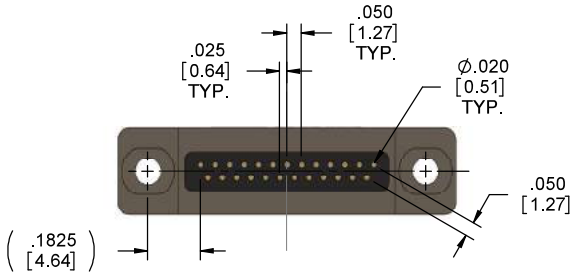
Metal Shell Micro-D Female Straight Thru-Hole (TYPE S2)









Contacts	English (IN)				Metric (mm)			
"n"	Rows	"A"	"B"	"C"	"D"	"A"	"B"	"C"	"D"
9	2	.775	.565	.400	.355	19.69	14.35	10.17	9.02
15	2	.925	.715	.550	.505	23.50	18.16	13.98	12.83
21	2	1.075	.865	.700	.655	27.31	21.97	17.79	16.64
25	2	1.175	.965	.800	.755	29.85	24.51	20.33	19.18
31	2	1.325	1.115	.950	.905	33.66	28.32	24.14	22.99
37	2	1.475	1.265	1.100	1.055	37.47	32.13	27.95	26.80
51	2	1.825	1.615	1.450	1.405	46.36	41.02	36.84	35.69

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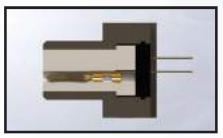
Micro-D

Standard Micro-D

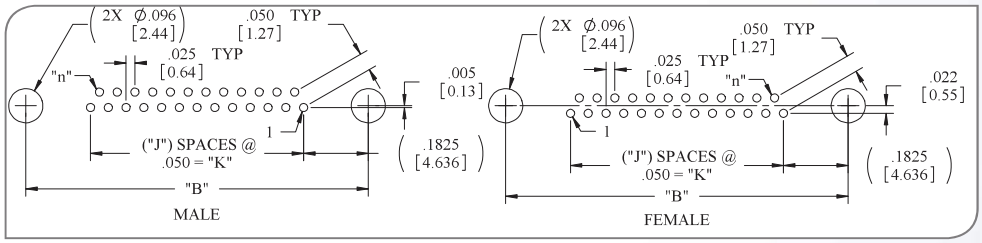
Metal Shell Micro-D Straight Thru-Hole (TYPE S2)

Series	# of Contacts	Shell Material and Finish	Hardware	Termination Type	Options
MMD Male (P - Pin)	**009** **015** **021** **025** **031** **037** **512**	**N (STD)** Aluminum Shell, Electroless Nickel Plated	**00** - NONE, Ø .092 HOLE (STD) **01** - FIXED JACK-POSTS (STD) **02** - JACKSCREWS, STD LENGTH, HEX HEAD (STD) **03** - JACKSCREWS, STD LENGTH, SLOTTED **04** - JACKSCREWS, LONG, HEX **05** - JACKSCREWS, LONG, SLOTTED	**S2** Straight Thru-Hole	**HTE** High Temp. Epoxy **RH** RoHS COMPLIANT
Female (S-Socket)	(Two Row 051)	**C** Aluminum Shell, Cadmium Plated			
	Options: 001-051	**B** Aluminum Shell, Black Anodized			
		P Stainless Steel Shell, Passivated			



Example

MMDS-025-N00-S2-HTE



Contacts / English (IN) / Metric (mm) / Standard

"n"	Rows	"B"	"J"	"K"	"B"	"J"	"K"	FEMALE	MALE
9	2	.565	4	.200	14.35	4	5.08	A99521-009	A98521-009
15	2	.715	7	.350	18.16	7	8.89	A99521-015	A98521-015
21	2	.865	10	.500	21.97	10	12.70	A99521-021	A98521-021
25	2	.965	12	.600	24.51	12	15.24	A99521-025	A98521-025
31	2	1.115	15	.750	28.32	15	19.05	A99521-031	A98521-031
37	2	1.265	18	.900	32.13	18	22.86	A99521-037	A98521-037
51	2	1.615	25	1.250	41.02	25	31.75	A99521-512	A98521-512

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OMNETICS CONNECTOR CORPORATION

Metal Shell Micro-D Right Angle Thru-Hole (TYPE R2)

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 -55ºC to 125ºC.

Electrical-Mechanical Specifications

- Operating Temperature: -55ºC to 125ºC (200 ºC with High Temp Epoxy)
- Dielectric Withstand Voltage: 600 VAC RMS @sea level
- Contact Resistance: 26 milliohms(65 mV) Max @2.5 AMPS
- Current Rating: 3 AMPS per contact
- Durability: 500 Mating Cycles min
- Insulation Resistance: 5000 megohms @ 500 VDC
- Shock: 50 g's with no discontinuties > 1 microsecond
- Vibration: 20 g's with no discontinuties > 1 microsecond
- Thermal Vacuum Outgassing (Space Class): 1.0% max TML, 0.1% max VCM
- Mating/Unmating Force: 10 oz (0.283 kg) max per contact

Material Specifications

- 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
- Interfacial Seal: Silicone Elastomer per A-A-59588
- Hardware: Stainless Steel, 300 Series, Passivated per SAE AMS-2700

Shell Options

- Aluminum with Nickel Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Nickel per SAE-AMS-2404
- Stainless Steel: 300 Series, Passivated per SAE AMS-2700
- Aluminum with Cadmium Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Cadmium With Yellow Chromate Conversion per SAE-AMS-QQ-P-416, Type II, Class 3 Over Nickel Underplate

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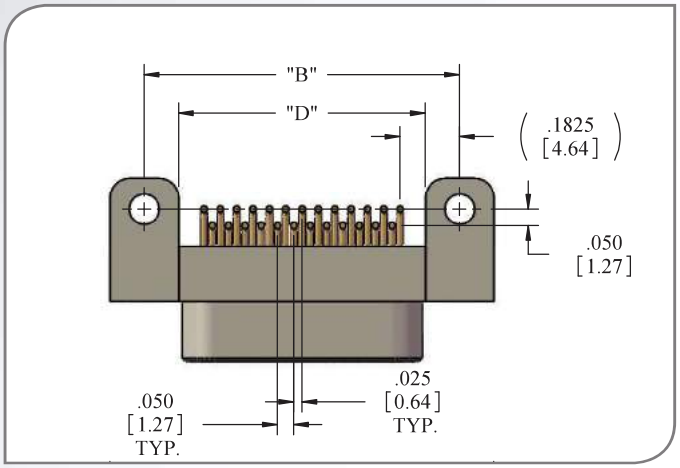
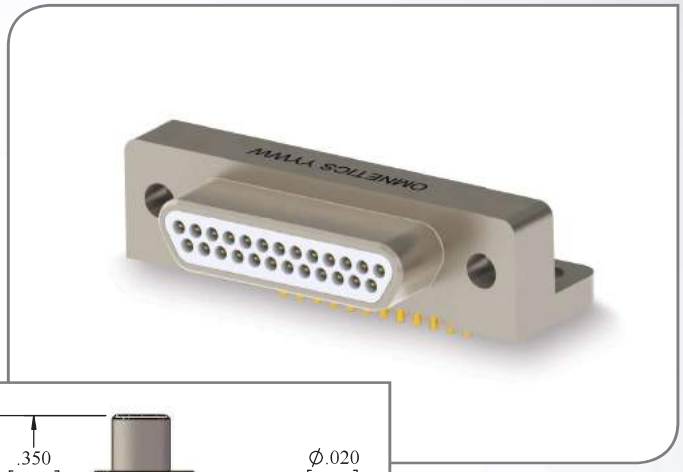
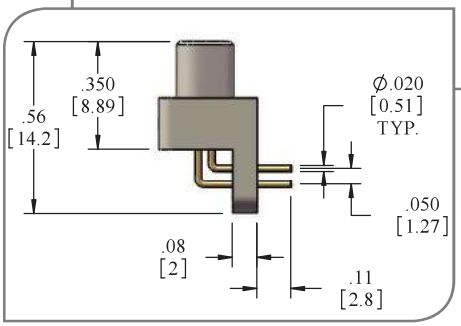
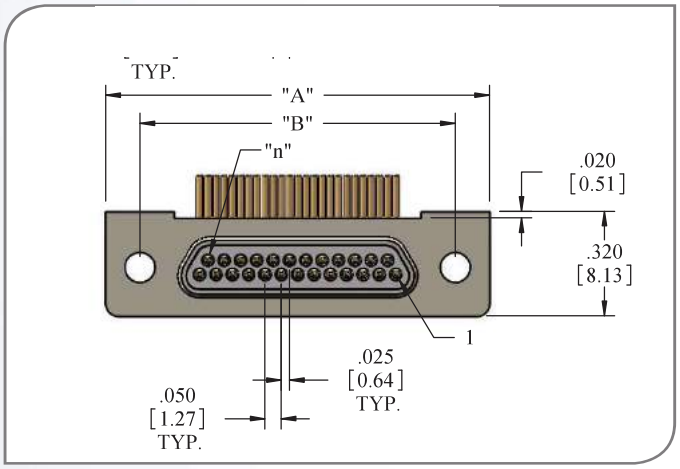
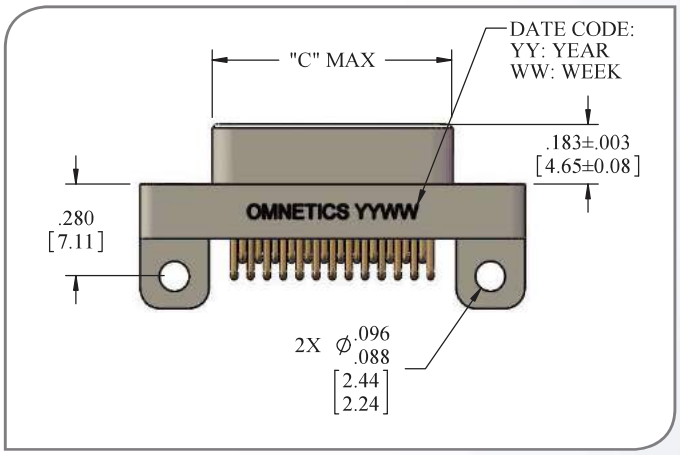
Metal Shell Micro-D Male Right Angle Thru-Hole (TYPE R2)











Contacts	English (IN)				Metric (mm)			
"n"	Rows	"A"	"B"	"C"	"D"	"A"	"B"	"C"	"D"
9	2	.775	.565	.334	.355	19.69	14.35	8.48	9.02
15	2	.925	.715	.484	.505	23.50	18.16	12.29	12.83
21	2	1.075	.865	.634	.655	27.31	21.97	16.10	16.64
25	2	1.175	.965	.734	.755	29.85	24.51	18.64	19.18
31	2	1.325	1.115	.884	.905	33.66	28.32	22.45	22.99
37	2	1.475	1.265	1.034	1.055	37.47	32.13	26.26	26.80
51	2	1.825	1.615	1.384	1.405	46.36	41.02	35.15	35.69

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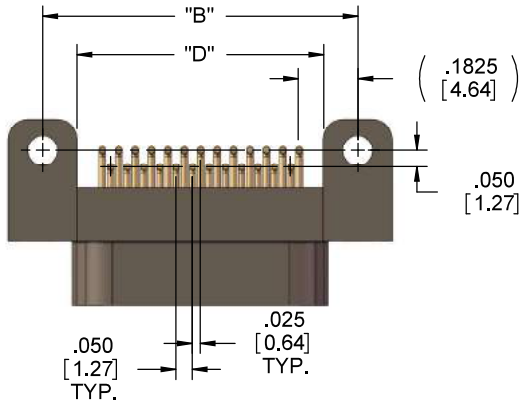
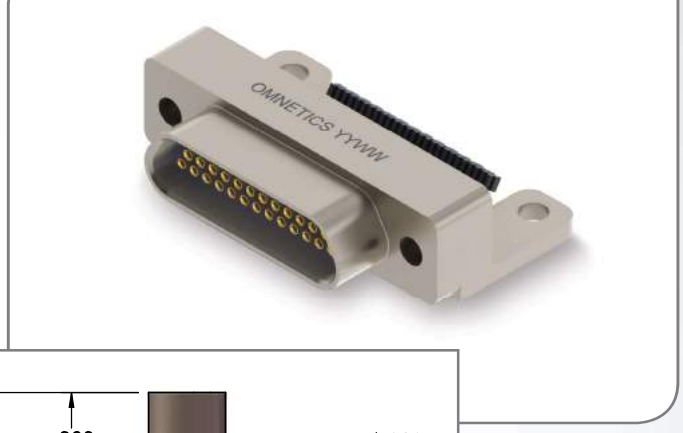
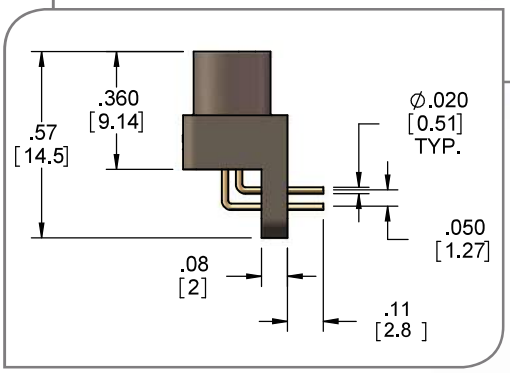
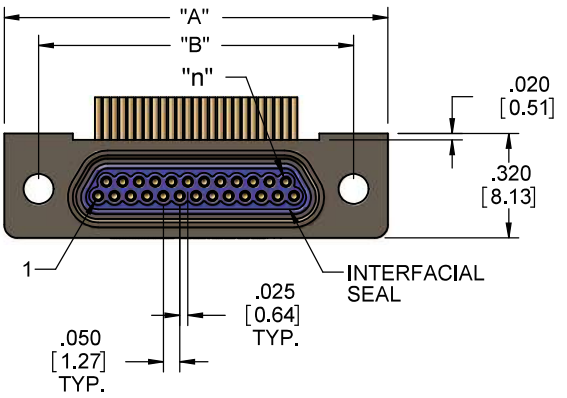
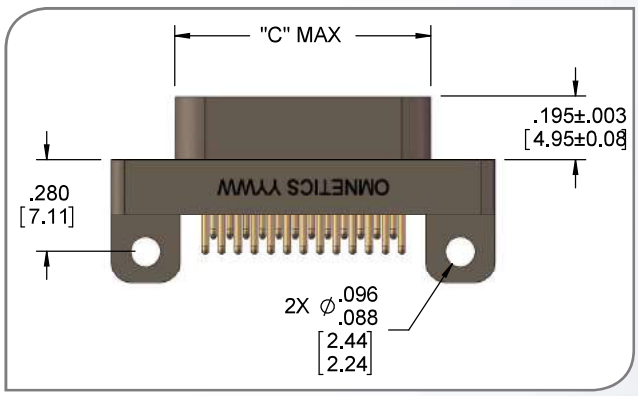
Metal Shell Micro-D Female Right Angle Thru-Hole (TYPE R2)











Contacts	English (IN)				Metric (mm)			
"n"	Rows	"A"	"B"	"C"	"D"	"A"	"B"	"C"	"D"
9	2	.775	.565	.400	.355	19.69	14.35	10.17	9.02
15	2	.925	.715	.550	.505	23.50	18.16	13.98	12.83
21	2	1.075	.865	.700	.655	27.31	21.97	17.79	16.64
25	2	1.175	.965	.800	.755	29.85	24.51	20.33	19.18
31	2	1.325	1.115	.950	.905	33.66	28.32	24.14	22.99
37	2	1.475	1.265	1.100	1.055	37.47	32.13	27.95	26.80
51	2	1.825	1.615	1.450	1.405	46.36	41.02	36.84	35.69

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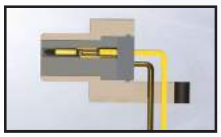
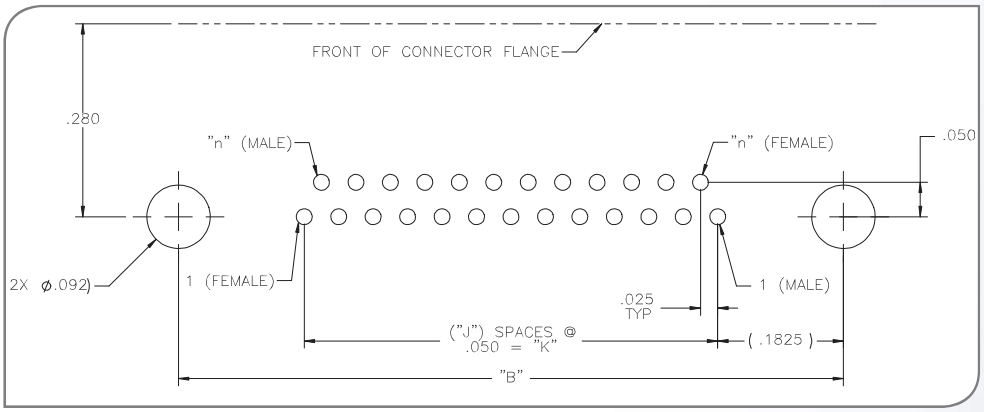
Metal Shell Micro-D Right Angle Thru-Hole (TYPE R2)

Series	# of Contacts	Shell Material and Finish	Hardware	Termination Type	Options
MMD Male (P - Pin)	**009** **015** **021** **025** **031** **037** **512**	**N (STD)** Aluminum Shell, Electroless Nickel Plated	**00** - NONE, Ø .092 HOLE (STD) **01** - FIXED JACK-POSTS (STD)	**R2** Right Angle Thru-Hole	**HTE** High Temp. Epoxy
		**C** Aluminum Shell, Cadmium Plated	**02** - JACKSCREWS, STD LENGTH, HEX HEAD (STD)		**RH** RoHS COMPLIANT
Female (S-Socket)	(Two Row 051)	**B** Aluminum Shell, Black Anodized	**03** - JACKSCREWS, STD LENGTH, SLOTTED		
	Options: 001-051	**P** Stainless Steel Shell, Passivated	**04** - JACKSCREWS, LONG, HEX **05** - JACKSCREWS, LONG, SLOTTED		

Example

MMDP-025-N00-R2



Contacts	English (IN)			Metric (mm)			Standard	
"n"	Rows	"B"	"J"	"K"	"B"	"J"	"K"	FEMALE	MALE
9	2	.565	4	.200	14.35	4	5.08	A99421-009	A98421-009
15	2	.715	7	.350	18.16	7	8.89	A99421-015	A98421-015
21	2	.865	10	.500	21.97	10	12.70	A99421-021	A98421-021
25	2	.965	12	.600	24.51	12	15.24	A99421-025	A98421-025
31	2	1.115	15	.750	28.32	15	19.05	A99421-031	A98421-031
37	2	1.265	18	.900	32.13	18	22.86	A99421-037	A98421-037
51	2	1.615	25	1.250	41.02	25	31.75	A99421-512	A98421-512

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Micro-D

Standard Micro-D

Metal Shell Micro-D Solder Cup (TYPE SS)

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 -55ºC to 125ºC.

Electrical-Mechanical Specifications

- Operating Temperature: -55ºC to 125ºC (200 ºC with High Temp Epoxy)
- Dielectric Withstand Voltage: 600 VAC RMS @sea level
- Contact Resistance: 26 milliohms(65 mV) Max @2.5 AMPS
- Current Rating: 3 AMPS per contact
- Durability: 500 Mating Cycles min
- Insulation Resistance: 5000 megohms @ 500 VDC
- Shock: 50 g's with no discontinuties > 1 microsecond
- Vibration: 20 g's with no discontinuties > 1 microsecond
- Thermal Vacuum Outgassing (Space Class): 1.0% max TML, 0.1% max VCM
- Mating/Unmating Force: 10 oz (0.283 kg) max per contact

Material Specifications

- 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
- Interfacial Seal: Silicone Elastomer per A-A-59588
- Hardware: Stainless Steel, 300 Series, Passivated per SAE AMS-2700

Shell Options

- Aluminum with Nickel Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Nickel per SAE-AMS-2404
- Stainless Steel: 300 Series, Passivated per SAE AMS-2700
- Aluminum with Cadmium Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Cadmium With Yellow Chromate Conversion per SAE-AMS-QQ-P-416, Type II, Class 3 Over Nickel Underplate

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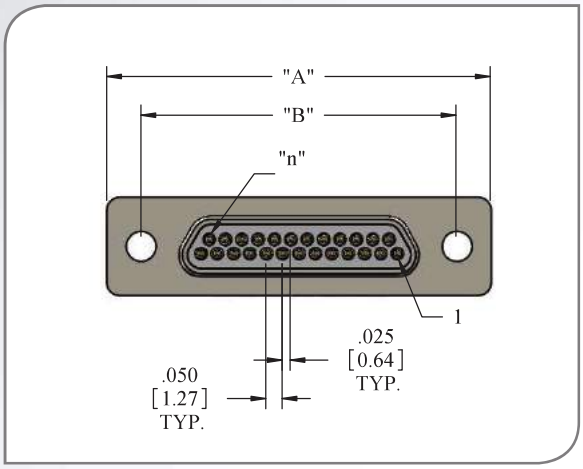
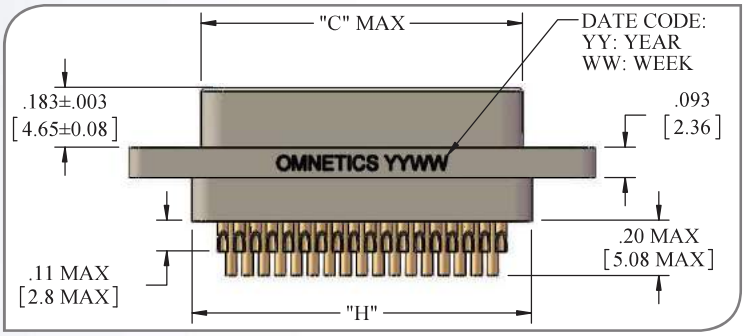
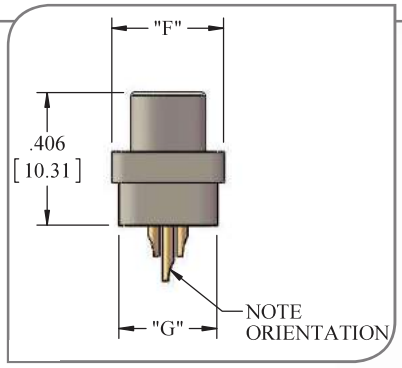
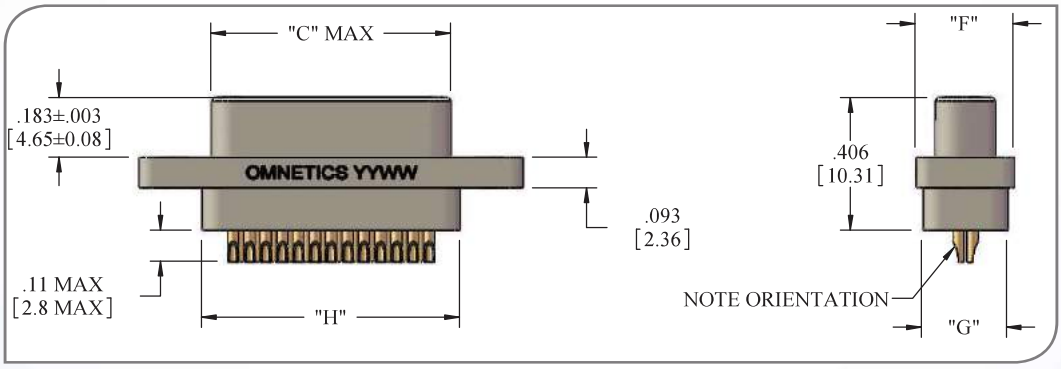
Metal Shell Micro-D Male Solder Cup (TYPE SS)









Contacts	English (IN)						Metric (mm)					
"n"	Rows	"A"	"B"	"C"	"F"	"G"	"H"	"A"	"B"	"C"	"F"	"G"	"H"
9	2	.775	.565	.334	.300	.260	.390	19.69	14.35	8.48	7.62	6.60	9.91
15	2	.925	.715	.484	.300	.260	.540	23.50	18.16	12.29	7.62	6.60	13.72
21	2	1.075	.865	.634	.300	.260	.690	27.31	21.97	16.10	7.62	6.60	17.53
25	2	1.175	.965	.734	.300	.260	.790	29.85	24.51	18.64	7.62	6.60	20.07
31	2	1.325	1.115	.884	.300	.260	.940	33.66	28.32	22.45	7.62	6.60	23.88
37	2	1.475	1.265	1.034	.300	.260	1.090	37.47	32.13	26.26	7.62	6.60	27.69
51	2	1.825	1.615	1.384	.300	.260	1.440	46.36	41.02	35.15	7.62	6.60	36.58
51	3	1.425	1.215	.984	.343	.300	1.040	36.20	30.86	24.99	8.71	7.62	26.42

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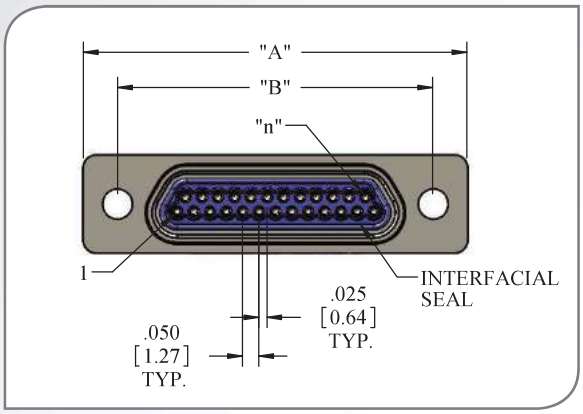
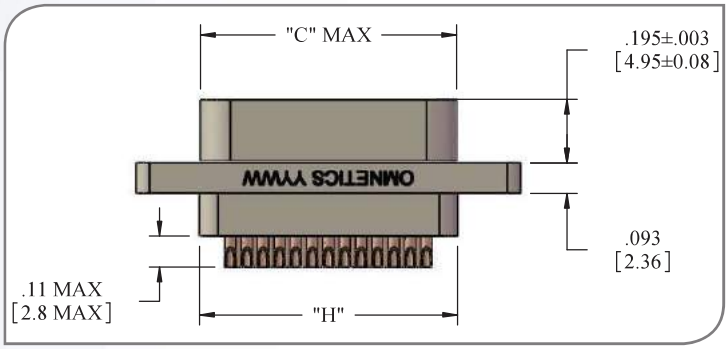
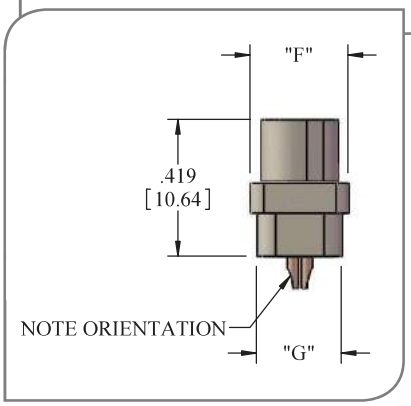
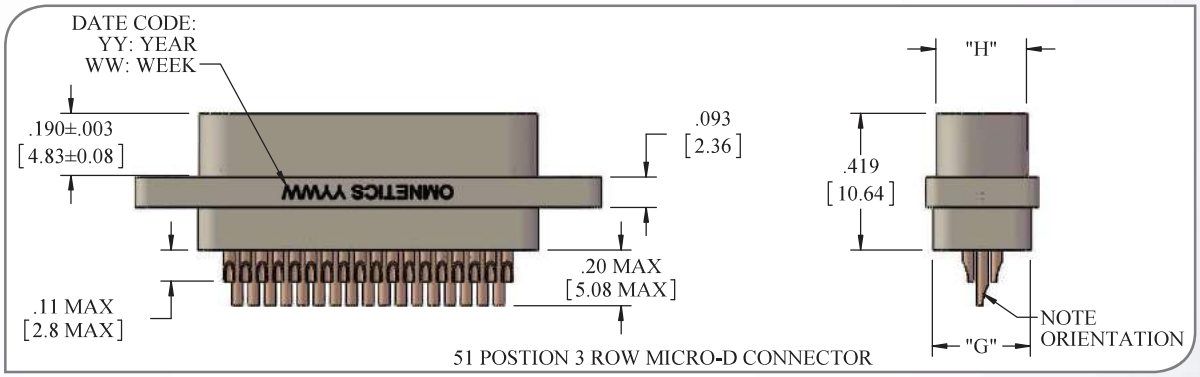
Metal Shell Micro-D Female Solder Cup (TYPE SS)









Contacts		English (IN)						Metric (mm)					
"n"	Rows	"A"	"B"	"C"	"F"	"G"	"H"	"A"	"B"	"C"	"F"	"G"	"H"
9	2	.775	.565	.334	.300	.260	.390	19.69	14.35	8.48	7.62	6.60	9.91
15	2	.925	.715	.484	.300	.260	.540	23.50	18.16	12.29	7.62	6.60	13.72
21	2	1.075	.865	.634	.300	.260	.690	27.31	21.97	16.10	7.62	6.60	17.53
25	2	1.175	.965	.734	.300	.260	.790	29.85	24.51	18.64	7.62	6.60	20.07
31	2	1.325	1.115	.884	.300	.260	.940	33.66	28.32	22.45	7.62	6.60	23.88
37	2	1.475	1.265	1.034	.300	.260	1.090	37.47	32.13	26.26	7.62	6.60	27.69
51	2	1.825	1.615	1.384	.300	.260	1.440	46.36	41.02	35.15	7.62	6.60	36.58
51	3	1.425	1.215	.984	.343	.300	1.040	36.20	30.86	24.99	8.71	7.62	26.42

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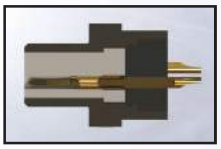
Metal Shell Micro-D Solder Cup (TYPE SS)

Series	# of Contacts	Shell Material and Finish	Hardware	Termination Type	Options
MMD Male (P - Pin)  Female (S-Socket) 	**009** **015** **021** **025** **031** **037** **051*** *(Use 512 for Two Row 051 and 513 for Three Row 051)	 **N (STD)** Aluminum Shell, Electroless Nickel Plated  **C** Aluminum Shell, Cadmium Plated  **B** Aluminum Shell, Black Anodized  **P** Stainless Steel Shell, Passivated	**00** - NONE, Ø .092 HOLE (STD) **01** - FIXED JACKPOSTS (STD) **02** - JACKSCREWS, STD LENGTH, HEX (STD) **03** - JACKSCREWS, STD LENGTH, SLOTTED **04** - JACKSCREWS, LONG, HEX **05** - JACKSCREWS, LONG, SLOTTED **06** - FLOAT MOUNT, FRONT MOUNTED **07** - FLOAT MOUNT, REAR MOUNTED	**SS** Solder Cup 	**HTE** High Temp. Epoxy **RH** RoHS COMPLIANT

Example

MMDS-025-N00-SS-RH

Standard

"n"	Rows	FEMALE	MALE
9	2	A99000-009	A98000-009
15	2	A99000-015	A98000-015
21	2	A99000-021	A98000-021
25	2	A99000-025	A98000-025
31	2	A99000-031	A98000-031
37	2	A99000-037	A98000-037
512	2	A99000-512	A98000-512
513	3	A99000-513	A98000-513

Micro-D

Standard Micro-D

Metal Shell Micro-D Discrete Leadwire (TYPE WD)

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 -55ºC to 125ºC.

Electrical-Mechanical Specifications

- Operating Temperature: -55ºC to 125ºC (200 ºC with High Temp Epoxy)
- Dielectric Withstand Voltage: 600 VAC RMS @sea level
- Contact Resistance: 26 milliohms(65 mV) Max @2.5 AMPS
- Current Rating: 3 AMPS per contact
- Durability: 500 Mating Cycles min
- Insulation Resistance: 5000 megohms @ 500 VDC
- Shock: 50 g's with no discontinuties > 1 microsecond
- Vibration: 20 g's with no discontinuties > 1 microsecond
- Thermal Vacuum Outgassing (Space Class): 1.0% max TML, 0.1% max VCM
- Mating/Unmating Force: 10 oz (0.283 kg) max per contact

Material Specifications

- 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
- Interfacial Seal: Silicone Elastomer per A-A-59588
- Hardware: Stainless Steel, 300 Series, Passivated per SAE AMS-2700

Shell Options

- Aluminum with Nickel Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Nickel per SAE-AMS-2404
- Stainless Steel: 300 Series, Passivated per SAE AMS-2700
- Aluminum with Cadmium Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Cadmium With Yellow Chromate Conversion per SAE-AMS-QQ-P-416, Type II, Class 3 Over Nickel Underplate

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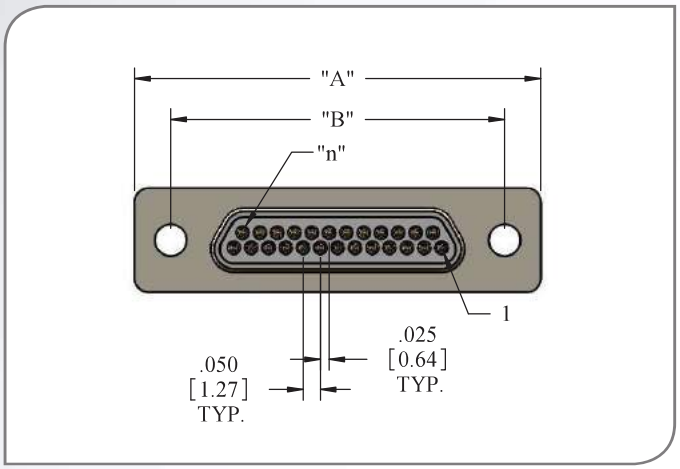
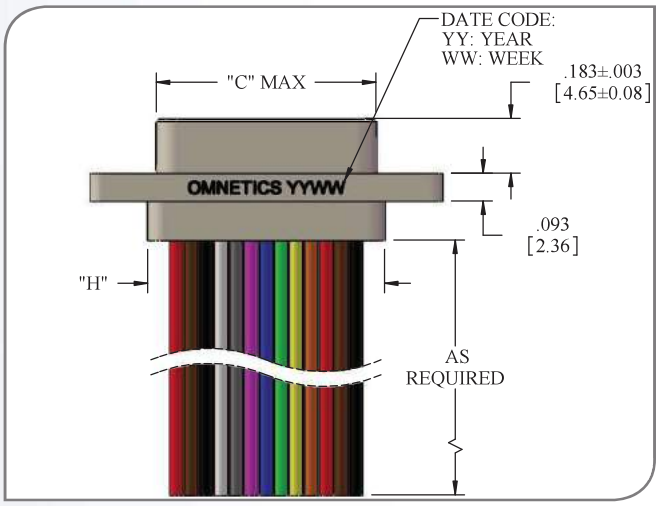
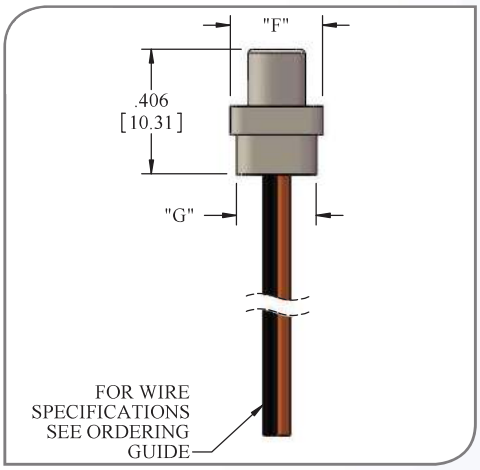
Metal Shell Micro-D Male Discrete Leadwire (TYPE WD)







Contacts	English (IN)						Metric (mm)					
"n"	Rows	"A"	"B"	"C"	"F"	"G"	"H"	"A"	"B"	"C"	"F"	"G"	"H"
9	2	.775	.565	.334	.300	.260	.390	19.69	14.35	8.48	7.62	6.60	9.91
15	2	.925	.715	.484	.300	.260	.540	23.50	18.16	12.29	7.62	6.60	13.72
21	2	1.075	.865	.634	.300	.260	.690	27.31	21.97	16.10	7.62	6.60	17.53
25	2	1.175	.965	.734	.300	.260	.790	29.85	24.51	18.64	7.62	6.60	20.07
31	2	1.325	1.115	.884	.300	.260	.940	33.66	28.32	22.45	7.62	6.60	23.88
37	2	1.475	1.265	1.034	.300	.260	1.090	37.47	32.13	26.26	7.62	6.60	27.69
51	2	1.825	1.615	1.384	.300	.260	1.440	46.36	41.02	35.15	7.62	6.60	36.58
51	3	1.425	1.215	.984	.343	.300	1.040	36.20	30.86	24.99	8.71	7.62	26.42

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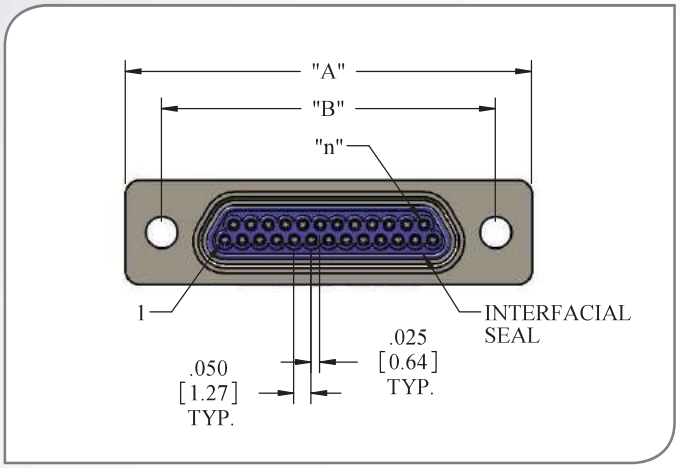
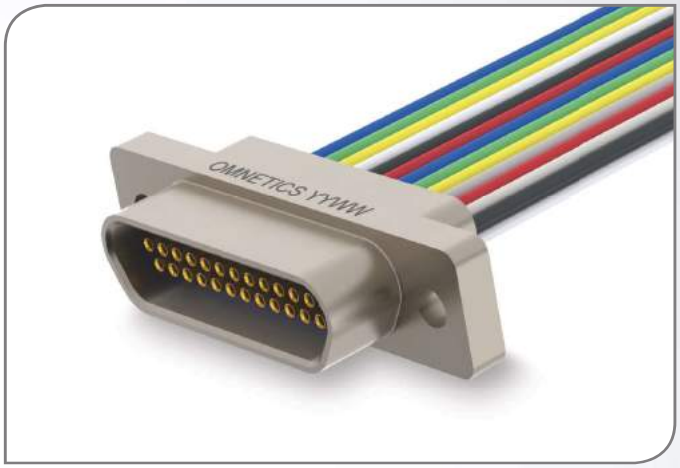
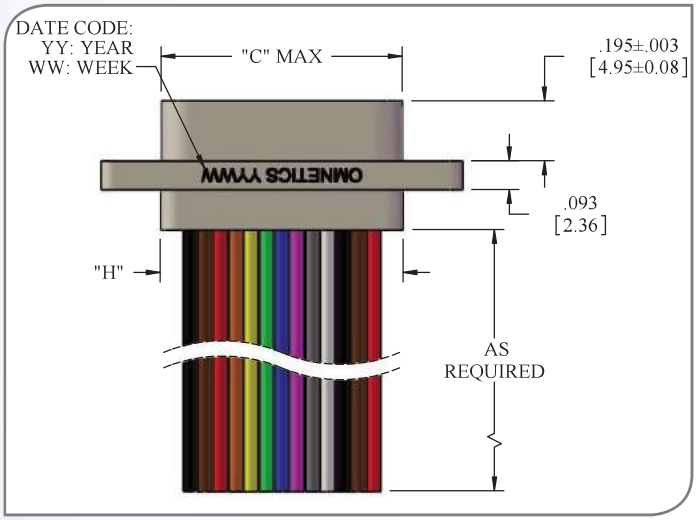
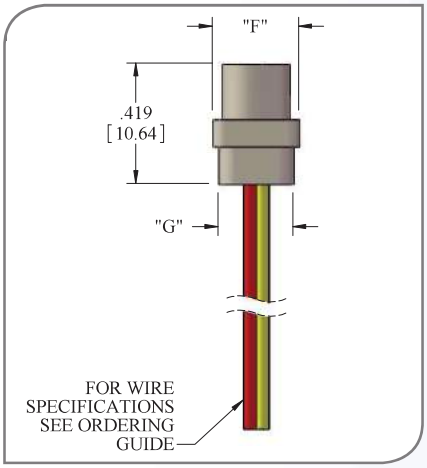
Metal Shell Micro-D Female Discrete Leadwire (TYPE WD)









Contacts	English (IN)						Metric (mm)					
"n"	Rows	"A"	"B"	"C"	"F"	"G"	"H"	"A"	"B"	"C"	"F"	"G"	"H"
9	2	.775	.565	.334	.300	.260	.390	19.69	14.35	8.48	7.62	6.60	9.91
15	2	.925	.715	.484	.300	.260	.540	23.50	18.16	12.29	7.62	6.60	13.72
21	2	1.075	.865	.634	.300	.260	.690	27.31	21.97	16.10	7.62	6.60	17.53
25	2	1.175	.965	.734	.300	.260	.790	29.85	24.51	18.64	7.62	6.60	20.07
31	2	1.325	1.115	.884	.300	.260	.940	33.66	28.32	22.45	7.62	6.60	23.88
37	2	1.475	1.265	1.034	.300	.260	1.090	37.47	32.13	26.26	7.62	6.60	27.69
51	2	1.825	1.615	1.384	.300	.260	1.440	46.36	41.02	35.15	7.62	6.60	36.58
51	3	1.425	1.215	.984	.343	.300	1.040	36.20	30.86	24.99	8.71	7.62	26.42

CAGE Code 61873

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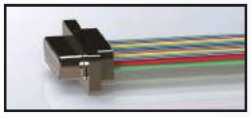
Metal Shell Micro-D Discrete Leadwire (TYPE WD)

Series	# of Contacts	Shell Material and Finish	Hardware	Termination Type	Options
MMD Male (P - Pin)  Female (S-Socket) 	**009** **015** **021** **025** **031** **037** **051*** *(Use 512 for Two Row 051 and 513 for Three Row 051)	**N (STD)** Aluminum Shell, Electroless Nickel Plated **C** Aluminum Shell, Cadmium Plated **B** Aluminum Shell, Black Anodized **P** Stainless Steel Shell, Passivated	**00** - NONE, Ø .092 HOLE (STD) **01** - FIXED JACK-POSTS (STD) **02** - JACKSCREWS, STD LENGTH, HEX HEAD (STD) **03** - JACKSCREWS, STD LENGTH, SLOTTED **04** - JACKSCREWS, LONG, HEX **05** - JACKSCREWS, LONG, SLOTTED **06 - 07** FLOAT-MOUNT OPTIONS	**WD** - Discrete Leadwire  **WIRE AWG:** 6 - 26 AWG (STD) 8 - 28 AWG 0 - 30 AWG **WIRE TYPE:** Q - NEMA HP3 (FORMERLY M16878/4 &/6) (STD) R - M22759/11 S - M22759/33 **WIRE LENGTH:** 18.0 - 18.00" (STD) XX.X - CUSTOM LENGTH **COLOR SCHEME:** 1 - 10 REPEATING (STD) 2 - BLUE 3 - WHITE 5 - YELLOW	**HTE** High Temp. Epoxy **RH** RoHS COMPLIANT

Example

MMDP-025-N00-WD6Q18.0-1-HTE

Standard

"n"	Rows	FEMALE	MALE
9	2	A99100-009	A98100-009
15	2	A99100-015	A98100-015
21	2	A99100-021	A98100-021
25	2	A99100-025	A98100-025
31	2	A99100-031	A98100-031
37	2	A99100-037	A98100-037
512	2	A99100-512	A98100-512
513	3	A99100-513	A98100-513

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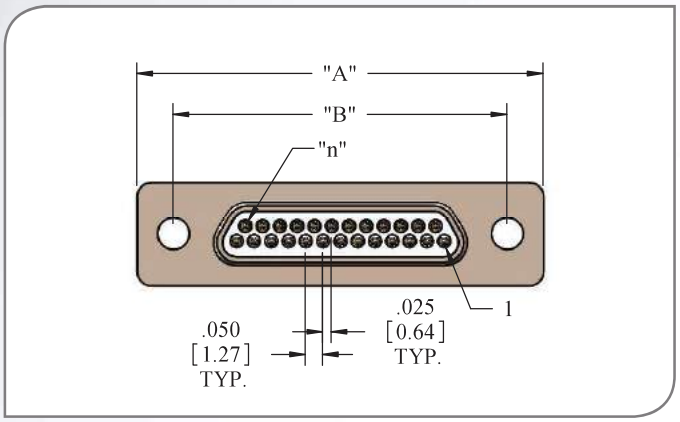
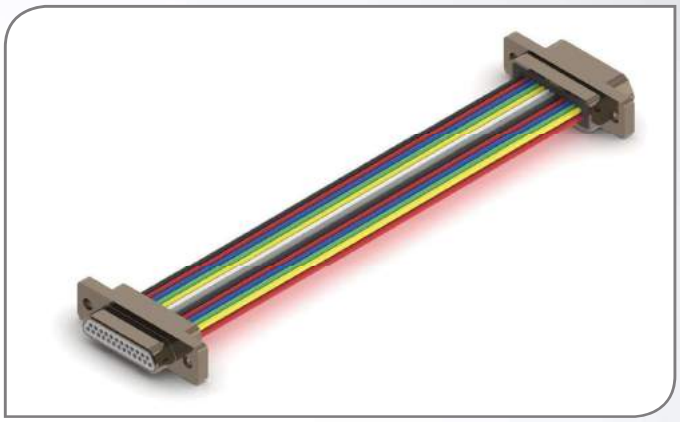
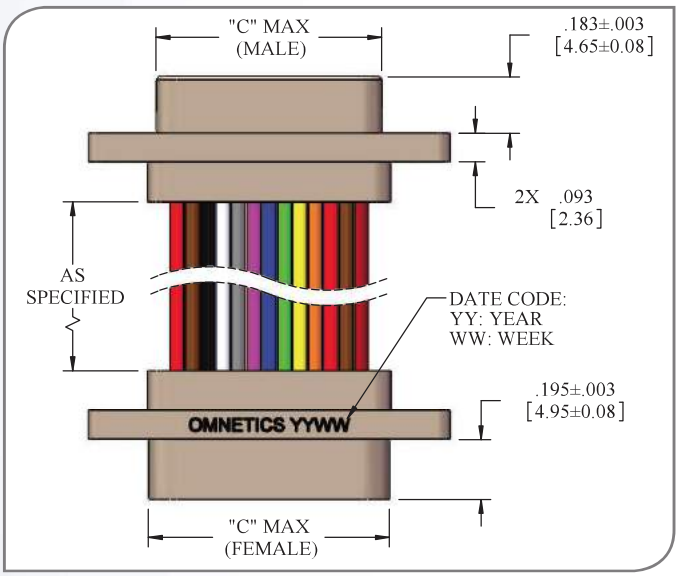
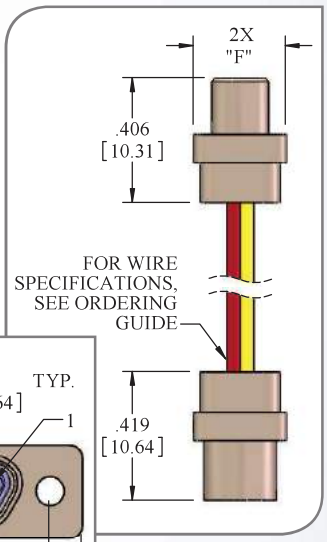
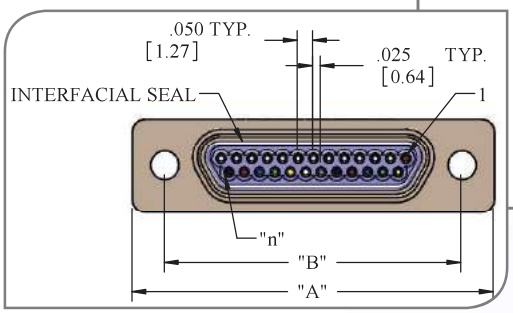
Metal Shell Micro-D Female to Male Jumpers (TYPE W)











Contacts

English (IN)

Metric (mm)

"n"	Rows	"A"	"B"	"C" Male	"C" Female	"F"	"A"	"B"	"C" Male	"C" Female	"F"
9	2	.775	.565	.334	.400	.260	19.69	14.35	8.48	10.17	6.60
15	2	.925	.715	.484	.550	.260	23.50	18.16	12.29	13.98	6.60
21	2	1.075	.865	.634	.700	.260	27.31	21.97	16.10	17.79	6.60
25	2	1.175	.965	.734	.800	.260	29.85	24.51	18.64	20.33	6.60
31	2	1.325	1.115	.884	.950	.260	33.66	28.32	22.45	24.14	6.60
37	2	1.475	1.265	1.034	1.100	.260	37.47	32.13	26.26	27.95	6.60
51	2	1.825	1.615	1.384	1.450	.260	46.36	41.02	35.15	36.84	6.60
51	3	1.425	1.215	.984	1.050	.300	36.20	30.86	24.99	26.68	7.62

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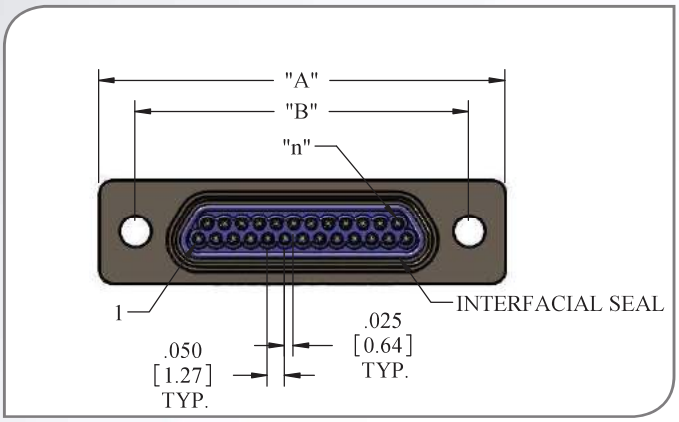
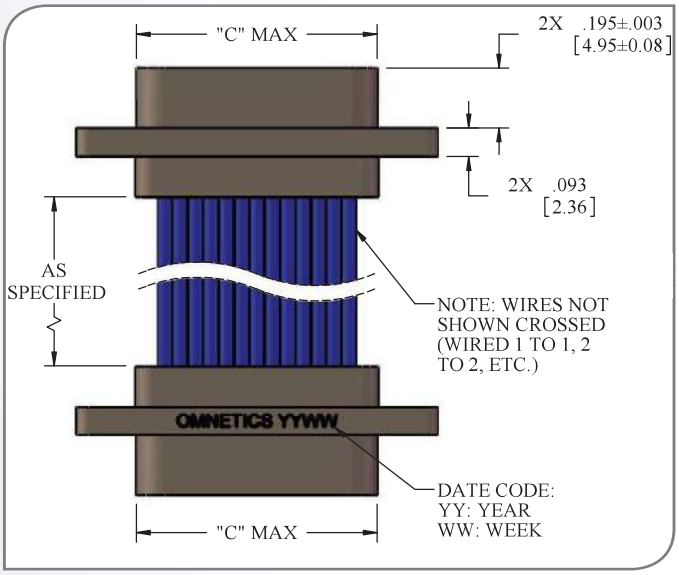
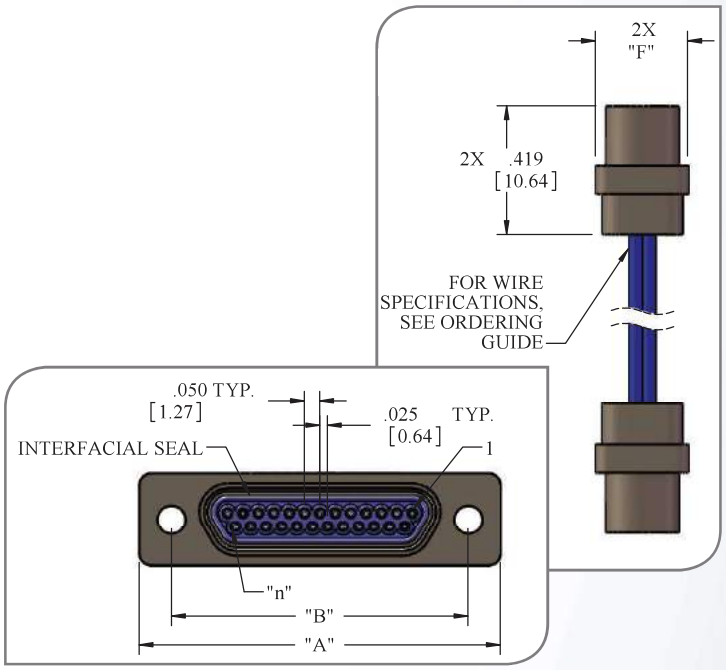
Metal Shell Micro-D Female to Female Jumpers (TYPE X)





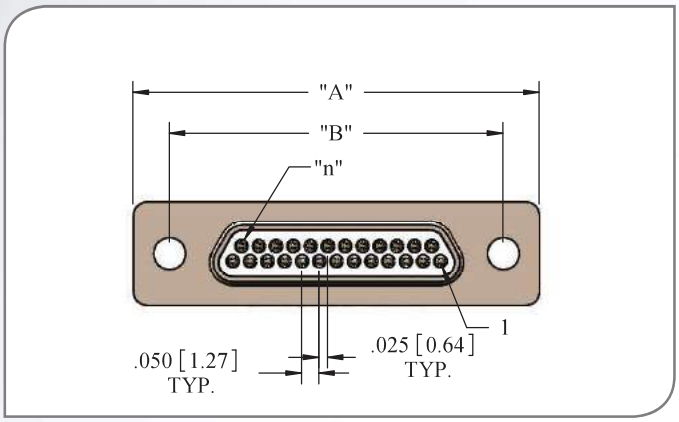


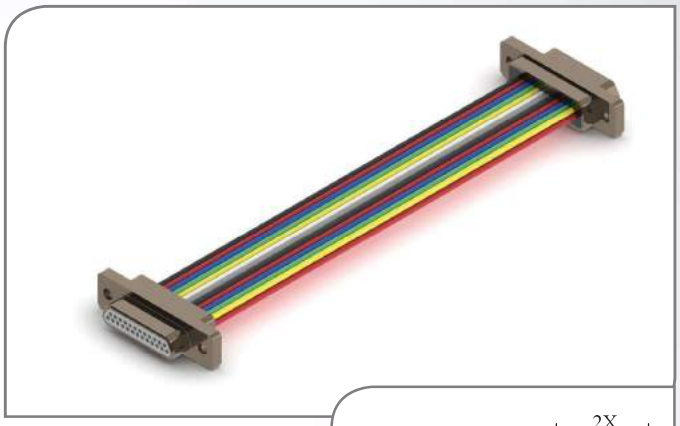
45

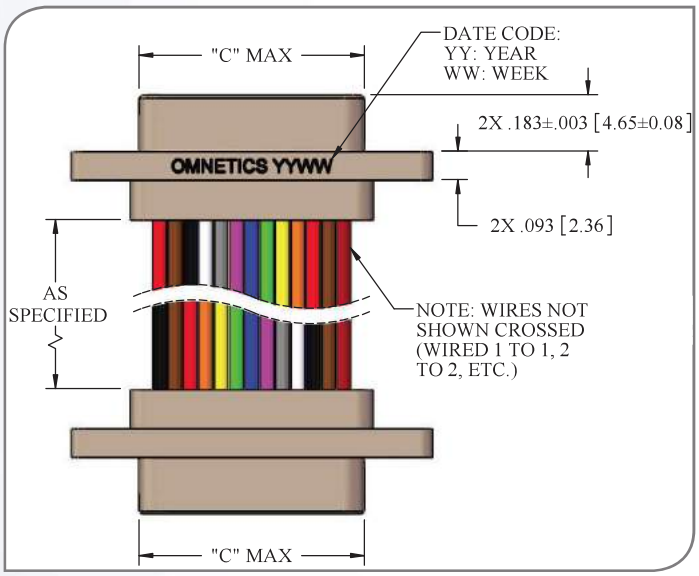
Contacts — English (IN) — Metric (mm)

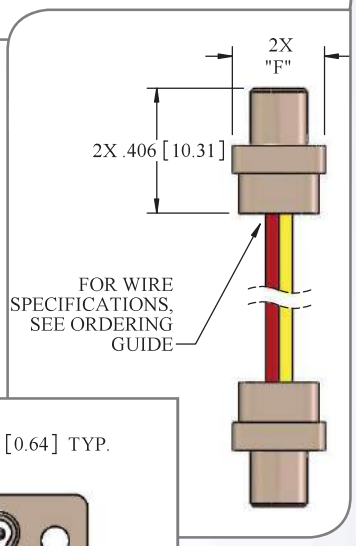
"n"	Rows	"A"	"B"	"C"	"F"	"A"	"B"	"C"	"F"
9	2	.775	.565	.400	.260	19.69	14.35	10.17	6.60
15	2	.925	.715	.550	.260	23.50	18.16	13.98	6.60
21	2	1.075	.865	.700	.260	27.31	21.97	17.79	6.60
25	2	1.175	.965	.800	.260	29.85	24.51	20.33	6.60
31	2	1.325	1.115	.950	.260	33.66	28.32	24.14	6.60
37	2	1.475	1.265	1.100	.260	37.47	32.13	27.95	6.60
51	2	1.825	1.615	1.450	.260	46.36	41.02	36.84	6.60
51	3	1.425	1.215	1.050	.300	36.20	30.86	26.68	7.62

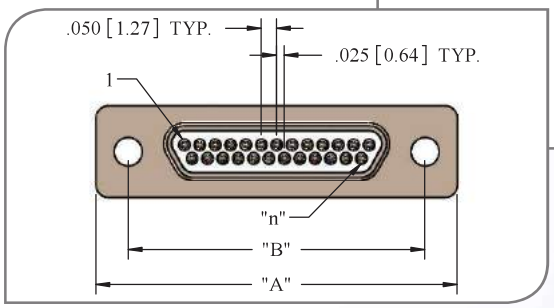
Metal Shell Micro-D Male to Male Jumpers (TYPE Y)











Contacts / English (IN) / Metric (mm)

"n"	Rows	"A"	"B"	"C"	"F"	"A"	"B"	"C"	"F"
9	2	.775	.565	.400	.260	19.69	14.35	10.17	6.60
15	2	.925	.715	.550	.260	23.50	18.16	13.98	6.60
21	2	1.075	.865	.700	.260	27.31	21.97	17.79	6.60
25	2	1.175	.965	.800	.260	29.85	24.51	20.33	6.60
31	2	1.325	1.115	.950	.260	33.66	28.32	24.14	6.60
37	2	1.475	1.265	1.100	.260	37.47	32.13	27.95	6.60
51	2	1.825	1.615	1.450	.260	46.36	41.02	36.84	6.60
51	3	1.425	1.215	1.050	.300	36.20	30.86	26.68	7.62

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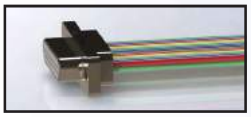
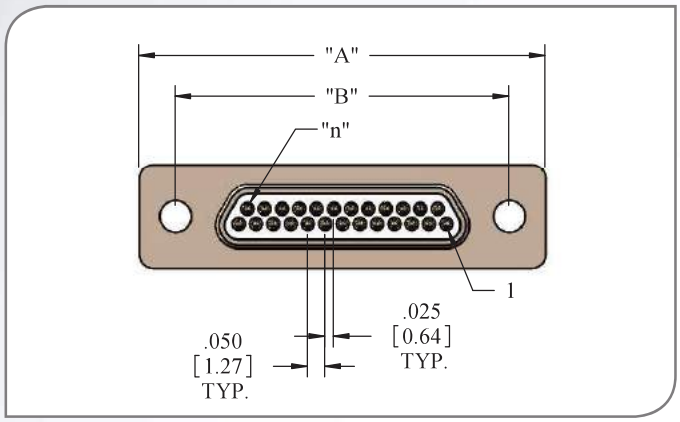
Metal Shell Micro-D Jumpers (TYPE W,X,Y)

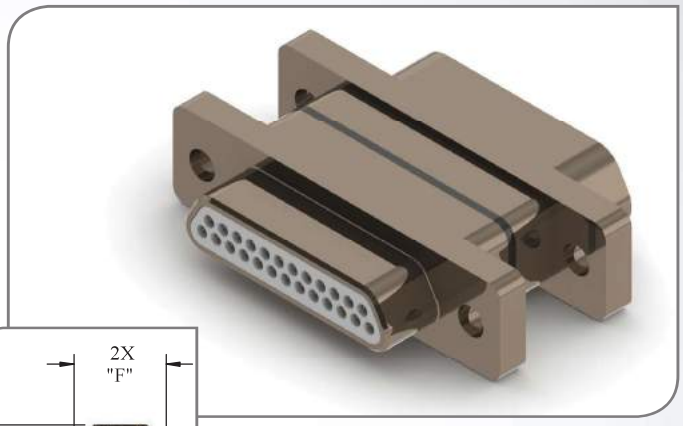
Series	# of Contacts	Shell Material and Finish	Hardware	Termination	Options
MMD W - FEMALE TO MALE  X - FEMALE TO FEMALE  Y - MALE TO MALE 	**009** **015** **021** **025** **031** **037** **51*** *(Use 512 for Two Row 051 and 513 for Three Row 051)	 **N (STD)** Aluminum Shell, Electroless Nickel Plated  **C** Aluminum Shell, Cadmium Plated  **B** Aluminum Shell, Black Anodized  **P** Stainless Steel Shell, Passivated	**00** - NONE, Ø .092 HOLE (STD) **13** FIXED JACK-POSTS (STD) (BOTH SIDES) **14** - JACKSCREWS, STD LENGTH, HEX HEAD (STD) (BOTH SIDES) **15** - ONE SET OF EACH, FIXED JACKPOSTS & JACKSCRWS, STANDARD LENGTH, HEX HEAD (STD) (PACKAGED SEPARATELY)	**WD** - Discrete Lead-wire w/Male and /Or Female Connectors  **WIRE AWG:** 6 - 26 AWG (STD) 8 - 28 AWG 0 - 30 AWG **WIRE TYPE:** Q - NEMA HP3 (FORMERLY M16878/4 &/6) (STD) R - M22759/11 S - M22759/33 **WIRE LENGTH:** 18.0 - 18.00" (STD) XX.X - CUSTOM LENGTH **COLOR SCHEME:** 1 - 10 REPEATING (STD) 2 - BLUE 3 - WHITE 5 - YELLOW	**HTE** High Temp. Epoxy **RH** RoHS COMPLIANT

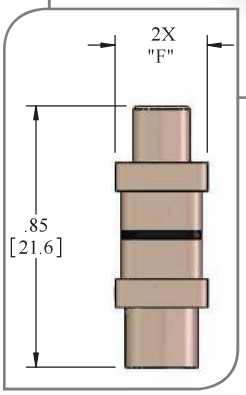
Example

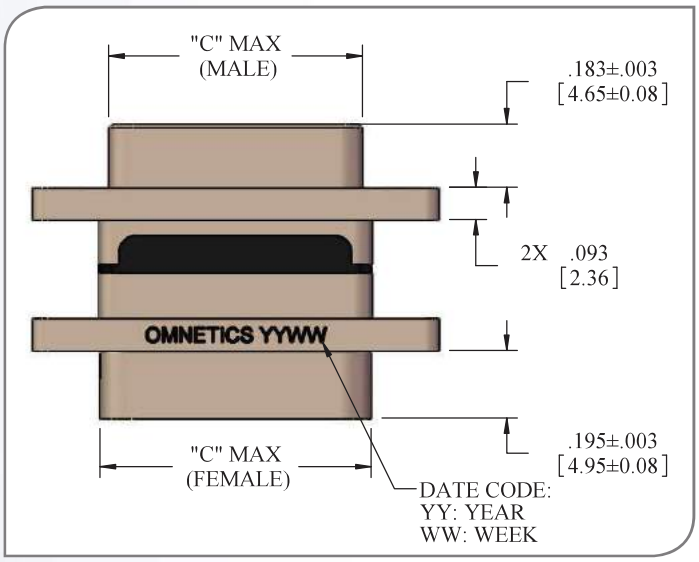
MMDX-025-N00-WD6Q18.0-2

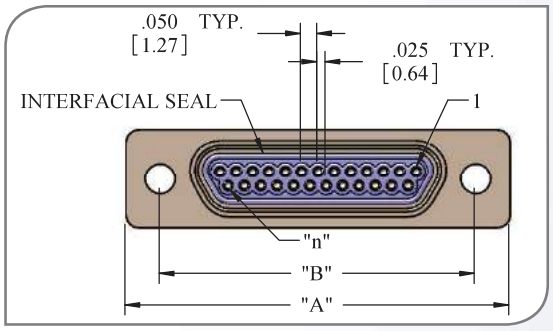
Metal Shell Micro-D Connector Saver (TYPE Z)











Contacts — English (IN) — Metric (mm)

"n"	Rows	"A"	"B"	"C" Male	"C" Female	"F"	"A"	"B"	"C" Male	"C" Female	"F"
9	2	.775	.565	.334	.400	.260	19.69	14.35	8.48	10.17	6.60
15	2	.925	.715	.484	.550	.260	23.50	18.16	12.29	13.98	6.60
21	2	1.075	.865	.634	.700	.260	27.31	21.97	16.10	17.79	6.60
25	2	1.175	.965	.734	.800	.260	29.85	24.51	18.64	20.33	6.60
31	2	1.325	1.115	.884	.950	.260	33.66	28.32	22.45	24.14	6.60
37	2	1.475	1.265	1.034	1.100	.260	37.47	32.13	26.26	27.95	6.60
51	2	1.825	1.615	1.384	1.450	.260	46.36	41.02	35.15	36.84	6.60
51	3	1.425	1.215	.984	1.050	.300	36.20	30.86	24.99	26.68	7.62

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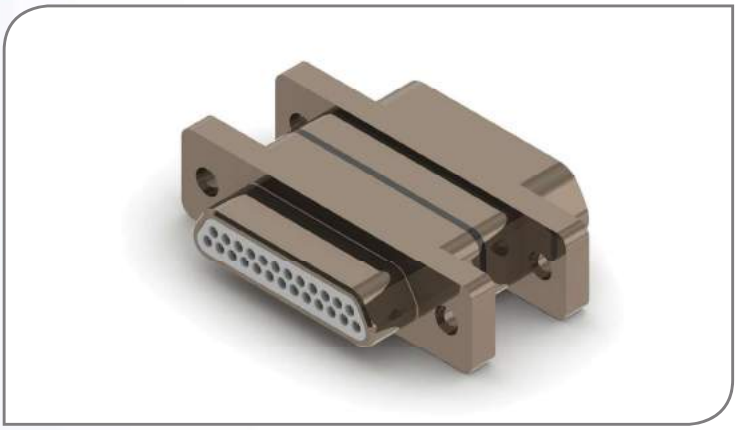
Metal Shell Micro-D Connector Saver (TYPE Z)

Series	# of Contacts	Shell Material and Finish	Hardware	Options
MMD Z- CONNECTOR SAVER	**009** **015** **021** **025** **031** **037** **051*** *(Use 512 for Two Row 051 and 513 for Three Row 051)	**N (STD)** Aluminum Shell, Electroless Nickel Plated **C** Aluminum Shell, Cadmium Plated **B** Aluminum Shell, Black Anodized **P** Stainless Steel Shell, Passivated	**00** - NONE, .092 HOLE (STD) **01** - FIXED JACK-POSTS (STD) **11** - COMBO JACKPOST/ JACKSCREW (FEMALE JACK-POST) (STD) **12** - COMBO JACKPOST/ JACKSCREW (MALE JACK-POST) (STD)	**HTE** High Temp. Epoxy **RH** RoHS COMPLIANT

Example



MMDZ-025-N00-HTE

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Latching Micro-D Horizontal Surface Mount (TYPE HO)

Omnetics Micro-D connectors are now available with a quick latch system. These latches require no tools and offer great ease in handling. Micro-D connectors utilize Omnetics' rugged and reliable Flex Pin contact system. Spaced on 50 mil (1.27mm) centerlines, they are capable of carrying 3 amps per contact. Small and lightweight, they have passed the shock and vibration requirements of MIL- DTL-83513.
Available in pin counts from 9-51, latching Micro-D's can be configured with discrete wires, overmolded cable, panel mount housings, and PCB mounted versions.

Electrical-Mechanical Specifications

- Operating Temperature: -55°C to 125°C (200 °C with High Temp Epoxy)
- Dielectric Withstand Voltage: 600 VAC RMS @sea level
- Contact Resistance: 26 milliohms(65 mV) Max @2.5 AMPS
- Current Rating: 3 AMPS per contact
- Durability: 500 Mating Cycles min
- Insulation Resistance: 5000 megohms @ 500 VDC
- Shock: 50 g's with no discontinuties > 1 microsecond
- Vibration: 20 g's with no discontinuties > 1 microsecond
- Thermal Vacuum Outgassing (Space Class): 1.0% max TML, 0.1% max VCM
- Mating/Unmating Force: 10 oz (0.283 kg) max per contact

Material Specifications

- 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
- Interfacial Seal: Silicone Elastomer per A-A-59588
- Hardware: Stainless Steel, 300 Series, Passivated per SAE AMS-2700

Shell Options

- Aluminum with Nickel Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Nickel per SAE-AMS-2404
- Stainless Steel: 300 Series, Passivated per SAE AMS-2700
- Aluminum with Cadmium Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Cadmium With Yellow Chromate Conversion per SAE-AMS-QQ-P-416, Type II, Class 3 Over Nickel Underplate

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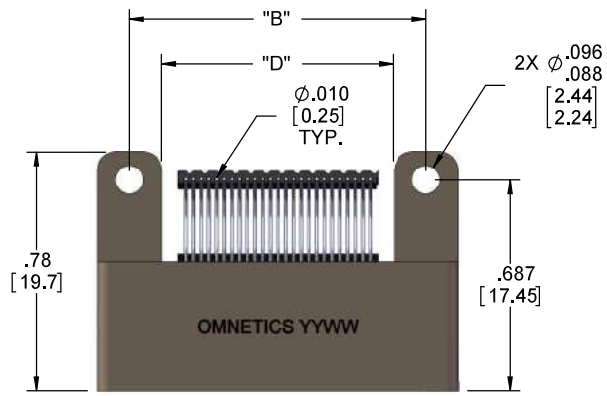
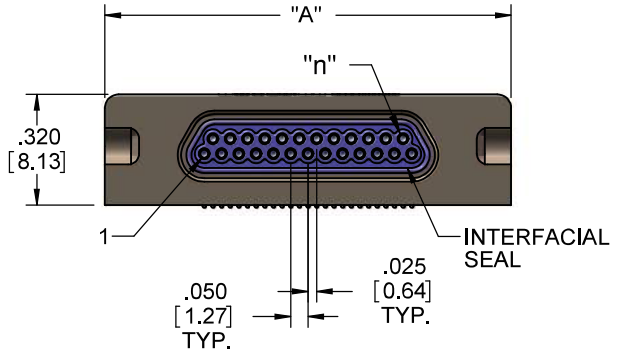
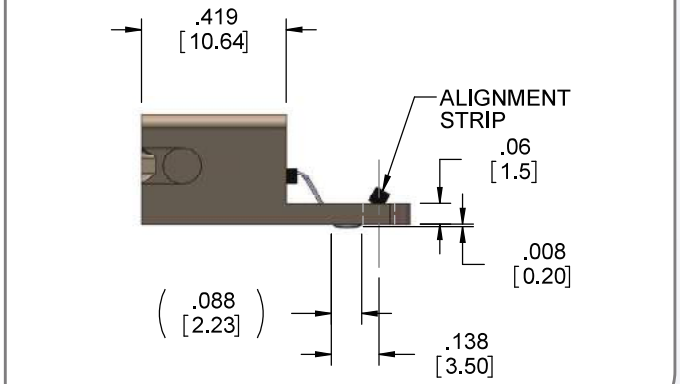
Latching Micro-D Female Horizontal Surface Mount (TYPE HO)



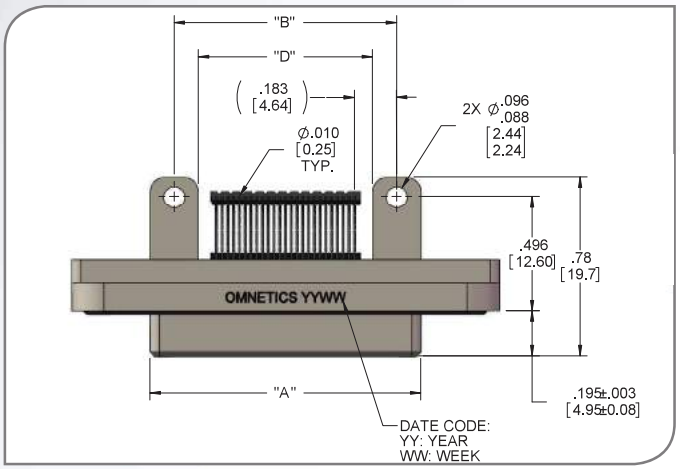


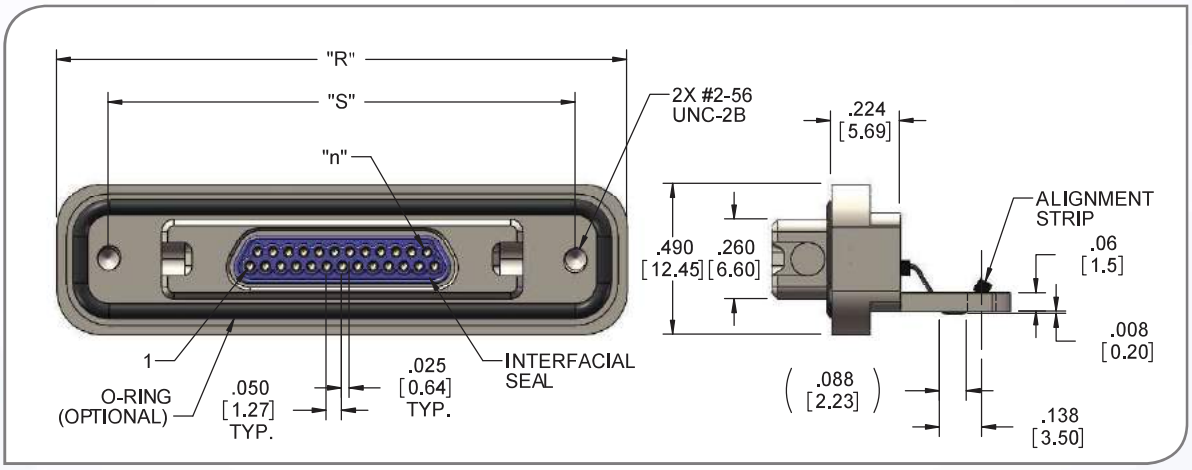


Contacts — English (IN) — Metric (mm)

"n"	Rows	"A"	"B"	"D"	"A"	"B"	"D"
9	2	.775	.565	.355	19.69	14.35	9.02
15	2	.925	.715	.505	23.50	18.16	12.83
21	2	1.075	.865	.655	27.31	21.97	16.64
25	2	1.175	.965	.755	29.85	24.51	19.18
31	2	1.325	1.115	.905	33.66	28.32	22.99
37	2	1.475	1.265	1.055	37.47	32.13	26.80
51	2	1.825	1.615	1.405	46.36	41.02	35.69

Latching Micro-D Female Horizontal Surface Mount Panel Mount (TYPE HO)





Contacts — English (IN) — Metric (mm)

"n"	Rows	"A"	"B"	"D"	"R"	"S"	"A"	"B"	"D"	"R"	"S"
9	2	.775	.565	.355	1.455	1.120	19.69	14.35	9.02	36.96	28.45
15	2	.925	.715	.505	1.605	1.270	23.50	18.16	12.83	40.77	32.26
21	2	1.075	.865	.655	1.755	1.420	27.31	21.97	16.64	44.58	36.07
25	2	1.175	.965	.755	1.855	1.520	29.85	24.51	19.18	47.12	38.61
31	2	1.325	1.115	.905	2.005	1.670	33.66	28.32	22.99	50.93	42.42
37	2	1.475	1.265	1.055	2.155	1.820	37.47	32.13	26.80	54.74	46.23
51	2	1.825	1.615	1.405	2.505	2.170	46.36	41.02	35.69	63.63	55.12

CAGE Code 61873

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www.omnetics.com
E-mail: sales@omnetics.com

Latching Micro-D Horizontal Surface Mount (TYPE H0)

Series

LMD
S-Socket

of Contacts

009
015
021
025
031
037
512

(Two Row 051)

Options:
001-051

Shell Material and Finish / Hardware

N (STD)
Aluminum Shell,
Electroless Nickel Plated

C
Aluminum Shell,
Cadmium Plated

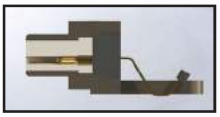
B
Aluminum Shell,
Black Anodized

P
Stainless Steel Shell,
Passivated

51- Latch Receptacle

Termination Type

H0 - Horizontal
Surface Mount



Options

HTE
High Temp.
Epoxy

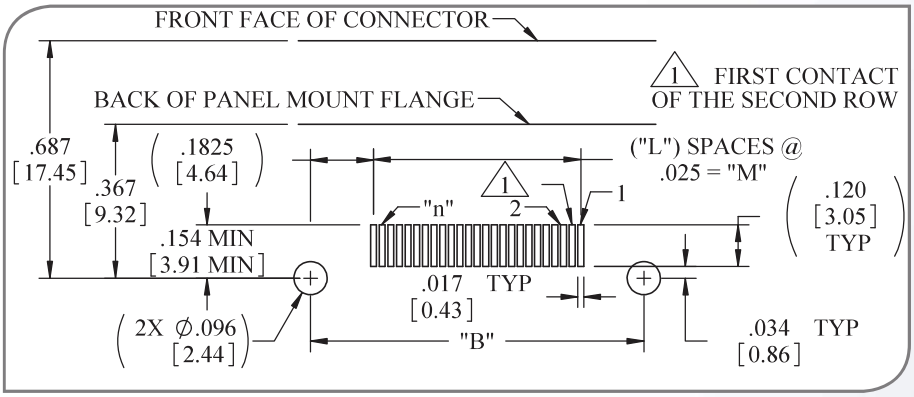
RH
RoHS
COMPLIANT

PA
Panel Mount, Rear,
O-Ring

PB
Panel Mount, Rear

Example

LMDS-025-N51-H0-RH



Contacts — English (IN) — Metric (mm)

"n"	Rows	"B"	"L"	"M"	"B"	"L"	"M"
9	2	.565	8	.200	14.35	8	5.08
15	2	.715	14	.350	18.16	14	8.89
21	2	.865	20	.500	21.97	20	12.70
25	2	.965	24	.600	24.51	24	15.24
31	2	1.115	30	.750	28.32	30	19.05
37	2	1.265	36	.900	32.13	36	22.86
51	2	1.615	50	1.250	41.02	50	31.75

CAGE Code 61873

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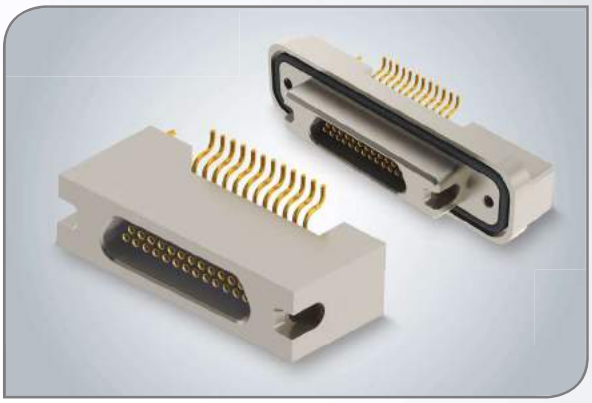
Latching Micro-D Vertical Surface Mount (TYPE VO)

Omnetics high reliability Micro-D connectors are available with Quick Latch System. For applications that require a secure connection, these latches require no tools and offer great ease in handling. complications from uneven turning of the traditional threaded hardware are no longer a problem.
The highly rugged Latching Micro-D connectors are built to meet or exceed the specification of MIL-DTL-83513. The Latching 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. These connectors are available in shell styles from 9 to 51 contacts. The aluminium shell is available, with multiple plating options, upon request. A panel mount version of the Latching Micro-D is currently available with discrete wire, cable, or solder cup.



Electrical-Mechanical Specifications

- Operating Temperature: -55°C to 125°C (200 °C with High Temp Epoxy)
- Dielectric Withstand Voltage: 600 VAC RMS @sea level
- Contact Resistance: 26 milliohms(65 mV) Max @2.5 AMPS
- Current Rating: 3 AMPS per contact
- Durability: 500 Mating Cycles min
- Insulation Resistance: 5000 megohms @ 500 VDC
- Shock: 50 g's with no discontinuties > 1 microsecond
- Vibration: 20 g's with no discontinuties > 1 microsecond
- Thermal Vacuum Outgassing (Space Class): 1.0% max TML, 0.1% max VCM
- Mating/Unmating Force: 10 oz (0.283 kg) max per contact

Material Specifications

- 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
- Interfacial Seal: Silicone Elastomer per A-A-59588
- Hardware: Stainless Steel, 300 Series, Passivated per SAE AMS-2700

Shell Options

- Aluminum with Nickel Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Nickel per SAE-AMS-2404
- Stainless Steel: 300 Series, Passivated per SAE AMS-2700
- Aluminum with Cadmium Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Cadmium With Yellow Chromate Conversion per SAE-AMS-QQ-P-416, Type II, Class 3 Over Nickel Underplate

CAGE Code 61873

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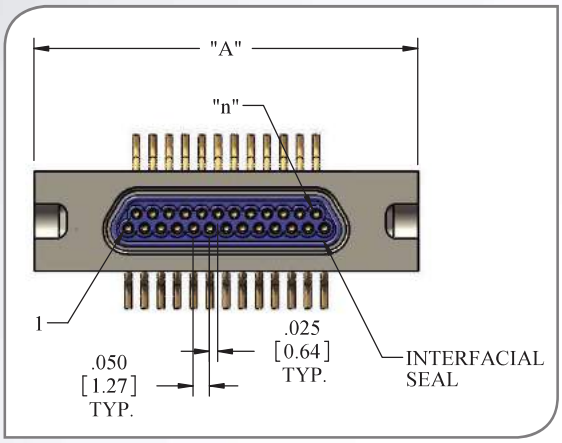
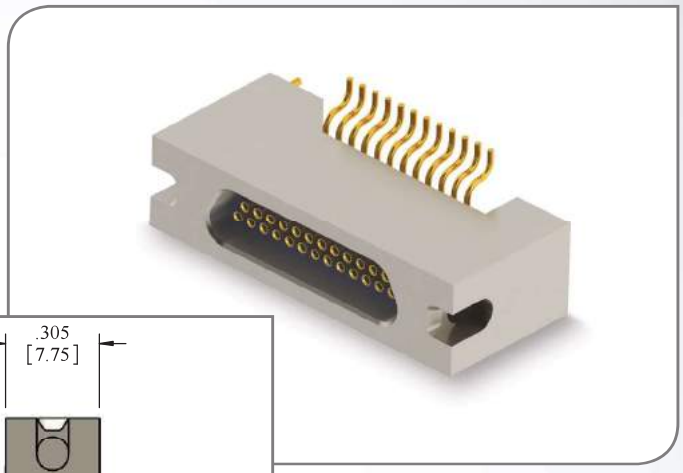
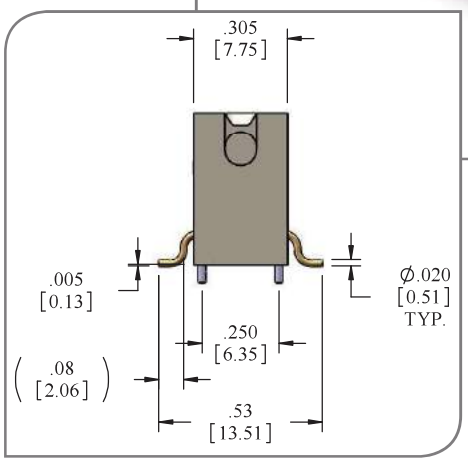
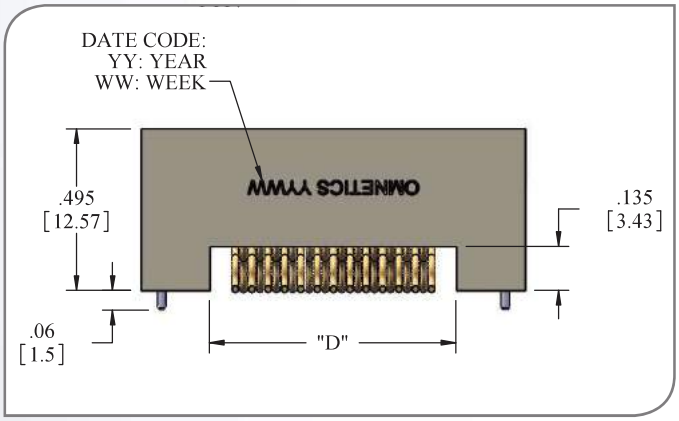
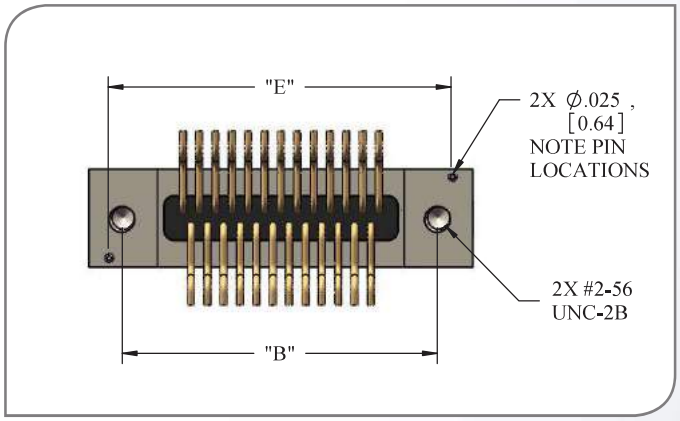
Latching Micro-D Female Vertical Surface Mount (TYPE V0)











Contacts — English (IN) — Metric (mm)

"n"	Rows	"A"	"B"	"D"	"E"	"A"	"B"	"D"	"E"
9	2	.775	.565	.355	.650	19.69	14.35	9.02	16.51
15	2	.925	.715	.505	.800	23.50	18.16	12.83	20.32
21	2	1.075	.865	.655	.950	27.31	21.97	16.64	24.13
25	2	1.175	.965	.755	1.050	29.85	24.51	19.18	26.67
31	2	1.325	1.115	.905	1.200	33.66	28.32	22.99	30.48
37	2	1.475	1.265	1.055	1.350	37.47	32.13	26.80	34.29
51	2	1.825	1.615	1.405	1.700	46.36	41.02	35.69	43.18

CAGE Code 61873

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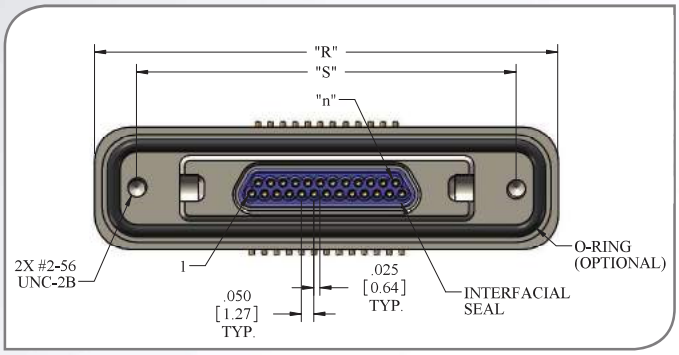
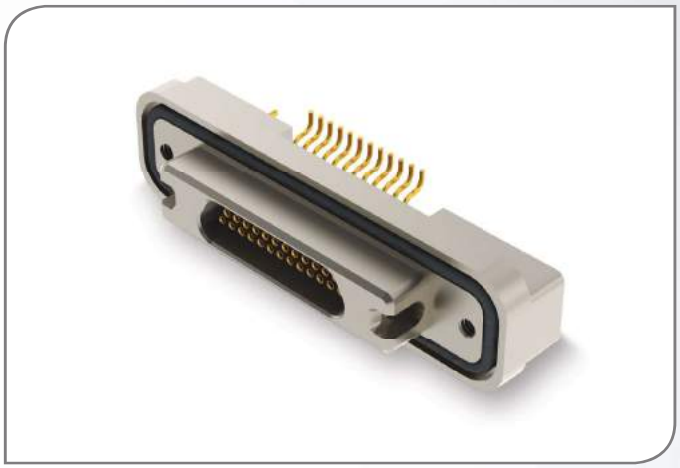
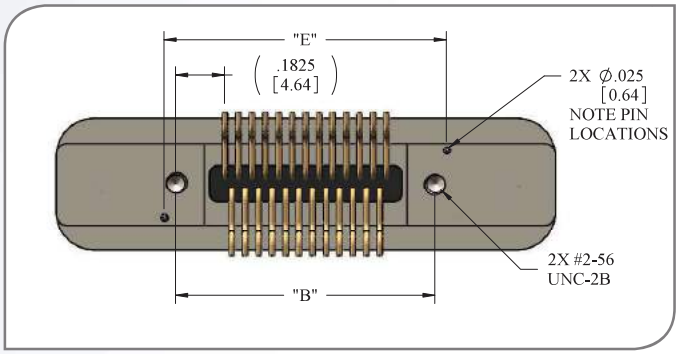
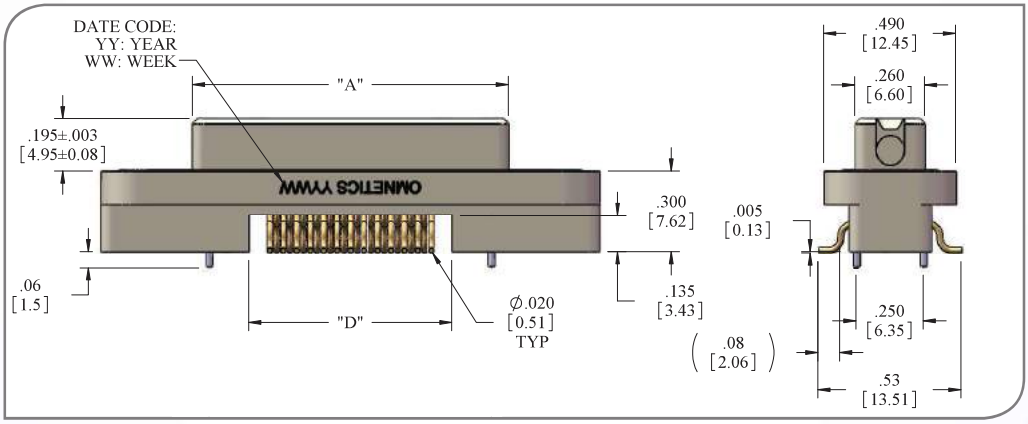
Latching Female Micro-D Vertical Surface Mount Panel Mount (TYPE V0)









Contacts / English (IN) / Metric (mm)

"n"	Rows	"A"	"B"	"D"	"E"	"R"	"S"	"A"	"B"	"D"	"E"	"R"	"S"
9	2	.775	.565	.355	.650	1.455	1.120	19.69	14.35	9.02	16.51	36.96	28.45
15	2	.925	.715	.505	.800	1.605	1.270	23.50	18.16	12.83	20.32	40.77	32.26
21	2	1.075	.865	.655	.950	1.755	1.420	27.31	21.97	16.64	24.13	44.58	36.07
25	2	1.175	.965	.755	1.050	1.855	1.520	29.85	24.51	19.18	26.67	47.12	38.61
31	2	1.325	1.115	.905	1.200	2.005	1.670	33.66	28.32	22.99	30.48	50.93	42.42
37	2	1.475	1.265	1.055	1.350	2.155	1.820	37.47	32.13	26.80	34.29	54.74	46.23
51	2	1.825	1.615	1.405	1.700	2.505	2.170	46.36	41.02	35.69	43.18	63.63	55.12

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E-mail: sales@omnetics.com

Latching Micro-D Vertical Surface Mount (TYPE V0)

Series

LMD
S-Socket

of Contacts

009
015
021
025
031
037
512
(Two Row 051)

Options:
001-051

Shell Material and Finish / Hardware

N (STD)
Aluminum Shell, Electroless Nickel Plated

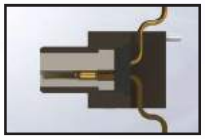
C
Aluminum Shell, Cadmium Plated

B
Aluminum Shell, Black Anodized

P
Stainless Steel Shell, Passivated

Termination Type

V0 - Vertical Surface Mount



Options

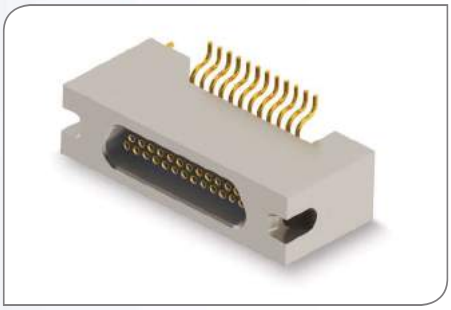
HTE
High Temp. Epoxy

RH
RoHS COMPLIANT

PA
Panel Mount, Rear, O-Ring

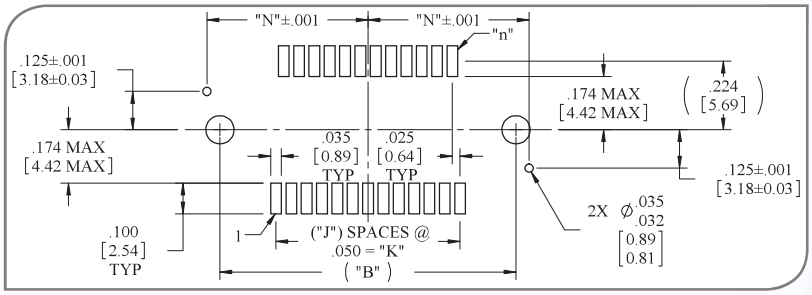
PB
Panel Mount, Rear

Example



LMDS-025-N51-V0

51- Latch Receptacle



Contacts / English (IN) / Metric (mm)

"n"	Rows	"B"	"J"	"K"	"N"	"B"	"J"	"K"	"N"
9	2	.565	4	.200	.325	14.35	4	5.08	8.26
15	2	.715	7	.350	.400	18.16	7	8.89	10.16
21	2	.865	10	.500	.475	21.97	10	12.70	12.07
25	2	.965	12	.600	.525	24.51	12	15.24	13.34
31	2	1.115	15	.750	.600	28.32	15	19.05	15.24
37	2	1.265	18	.900	.675	32.13	18	22.86	17.15
51	2	1.615	25	1.250	.850	41.02	25	31.75	21.95

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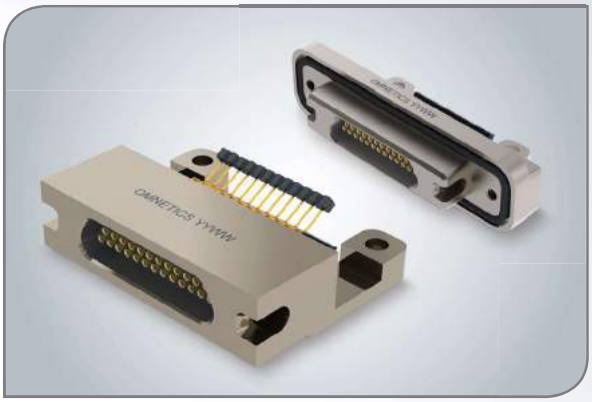
Latching Micro-D Card Edge Surface Mount (TYPE CO)

Omnetics high reliability Micro-D connectors are available with Quick Latch System. For applications that require a secure connection, these latches require no tools and offer great ease in handling. complications from uneven turning of the traditional threaded hardware are no longer a problem.
The highly rugged Latching Micro-D connectors are built to meet or exceed the specification of MIL-DTL-83513. The Latching 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. These connectors are available in shell styles from 9 to 51 contacts. The aluminium shell is available, with multiple plating options, upon request. A panel mount version of the Latching Micro-D is currently available with discrete wire, cable, or solder cup.



Electrical-Mechanical Specifications

- Operating Temperature: -55°C to 125°C (200 °C with High Temp Epoxy)
- Dielectric Withstand Voltage: 600 VAC RMS @sea level
- Contact Resistance: 26 milliohms(65 mV) Max @2.5 AMPS
- Current Rating: 3 AMPS per contact
- Durability: 500 Mating Cycles min
- Insulation Resistance: 5000 megohms @ 500 VDC
- Shock: 50 g's with no discontinuties > 1 microsecond
- Vibration: 20 g's with no discontinuties > 1 microsecond
- Thermal Vacuum Outgassing (Space Class): 1.0% max TML, 0.1% max VCM
- Mating/Unmating Force: 10 oz (0.283 kg) max per contact

Material Specifications

- 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
- Interfacial Seal: Silicone Elastomer per A-A-59588
- Hardware: Stainless Steel, 300 Series, Passivated per SAE AMS-2700

Shell Options

- Aluminum with Nickel Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Nickel per SAE-AMS-2404
- Stainless Steel: 300 Series, Passivated per SAE AMS-2700
- Aluminum with Cadmium Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Cadmium With Yellow Chromate Conversion per SAE-AMS-QQ-P-416, Type II, Class 3 Over Nickel Underplate

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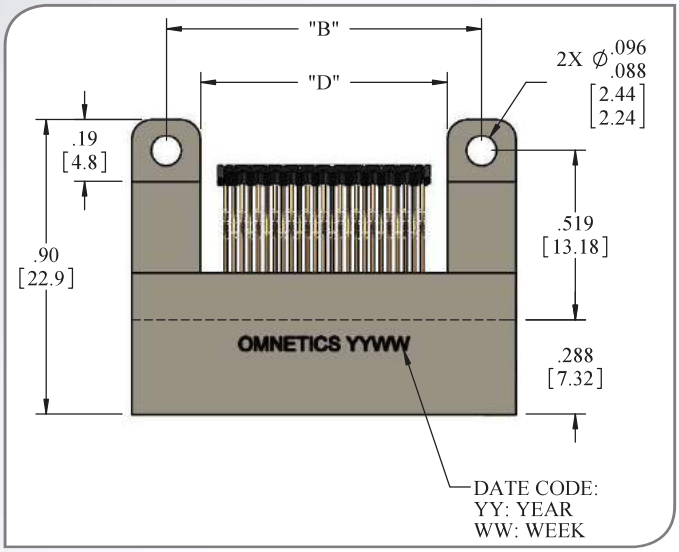
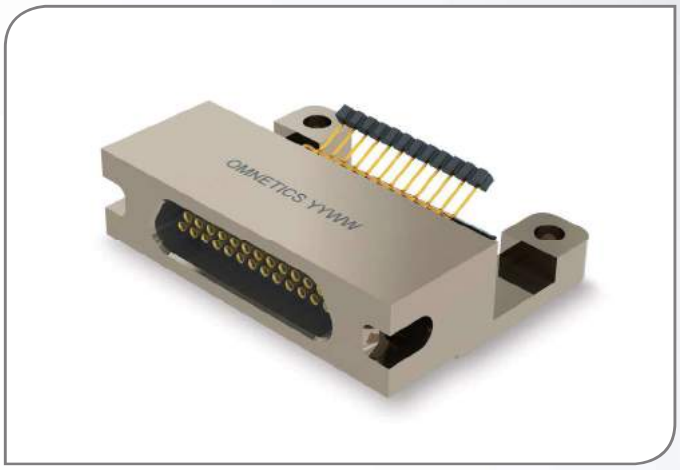
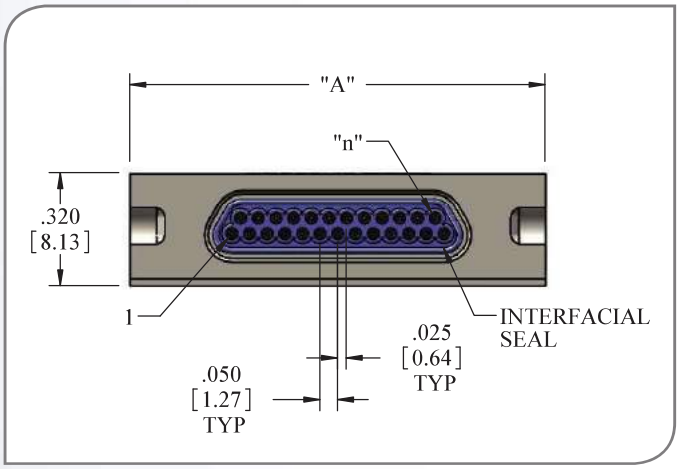
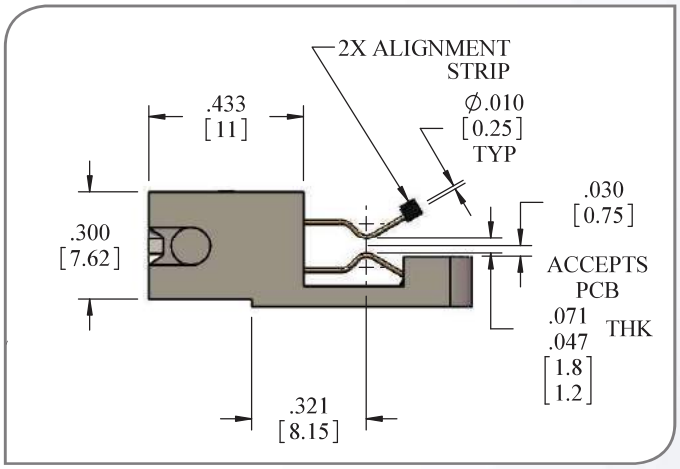
Latching Micro-D Female Card Edge Surface Mount (TYPE CO)









Contacts	English (IN)			Metric (mm)		
"n"	Rows	"A"	"B"	"D"	"A"	"B"	"D"
9	2	.775	.565	.355	19.69	14.35	9.02
15	2	.925	.715	.505	23.50	18.16	12.83
21	2	1.075	.865	.655	27.31	21.97	16.64
25	2	1.175	.965	.755	29.85	24.51	19.18
31	2	1.325	1.115	.905	33.66	28.32	22.99
37	2	1.475	1.265	1.055	37.47	32.13	26.80
51	2	1.825	1.615	1.405	46.36	41.02	35.69

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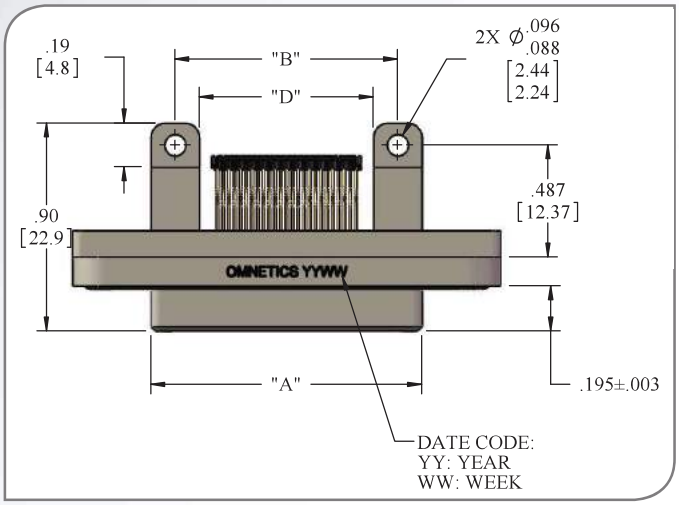
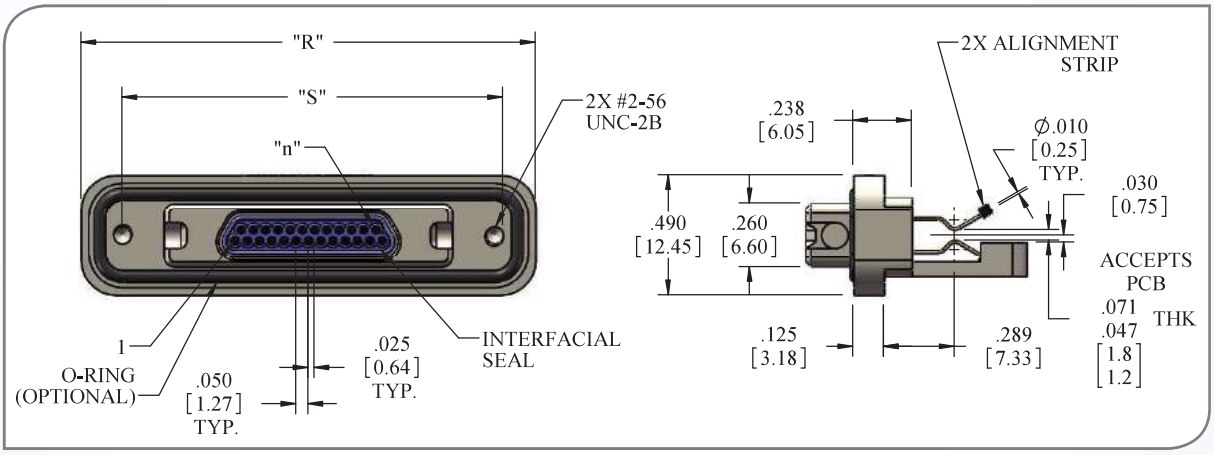
E-mail: sales@omnetics.com

Latching Micro-D Female Card Edge Surface Mount Panel Mount (TYPE CO)





Contacts	English (IN)					Metric (mm)				
"n"	Rows	"A"	"B"	"D"	"R"	"S"	"A"	"B"	"D"	"R"	"S"
9	2	.775	.565	.355	1.455	1.230	19.69	14.35	9.02	36.96	31.24
15	2	.925	.715	.505	1.605	1.380	23.50	18.16	12.83	40.77	3505
21	2	1.075	.865	.655	1.755	1.530	27.31	21.97	16.64	44.58	38.86
25	2	1.175	.965	.755	1.855	1.630	29.85	24.51	19.18	47.12	41.40
31	2	1.325	1.115	.905	2.005	1.780	33.66	28.32	22.99	50.93	45.21
37	2	1.475	1.265	1.055	2.155	1.930	37.47	32.13	26.80	54.74	49.02
51	2	1.825	1.615	1.405	2.505	2.280	46.36	41.02	35.69	63.63	57.91

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Latching Micro-D Card Edge Surface Mount (TYPE C0)

Series

LMD
S-Socket

of Contacts

009
015
021
025
031
037
512
(Two Row 051)

Options:
001-051

Shell Material and Finish / Hardware

N (STD)
Aluminum Shell,
Electroless Nickel Plated

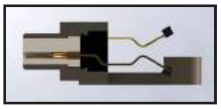
C
Aluminum Shell,
Cadmium Plated

B
Aluminum Shell,
Black Anodized

P
Stainless Steel Shell,
Passivated

Termination Type

C0 - Card Edge
Surface Mount



51- Latch Receptacle

Options

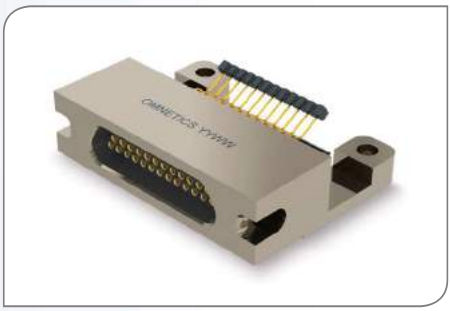
HTE
High Temp.
Epoxy

RH
RoHS
COMPLIANT

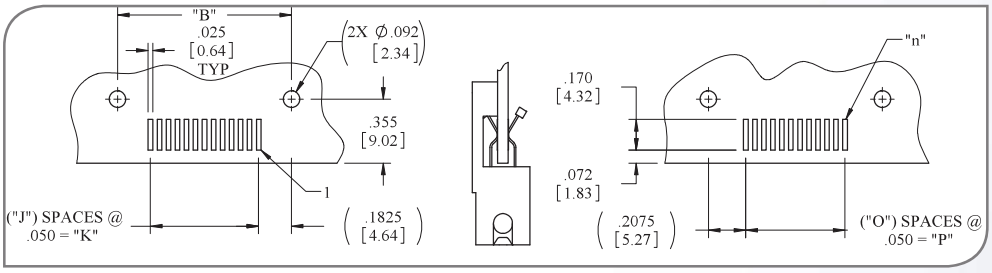
PA
Panel Mount, Rear,
O-Ring

PB
Panel Mount, Rear

Example



LMDS-025-N51-C0-HTE



Contacts / English (IN) / Metric (mm)

"n"	Rows	"B"	"J"	"K"	"O"	"P"	"B"	"J"	"K"	"O"	"P"
9	2	.565	4	.200	3	.150	14.35	4	5.08	3	3.81
15	2	.715	7	.350	6	.300	18.16	7	8.89	6	7.62
21	2	.865	10	.500	9	.450	21.97	10	12.70	9	11.43
25	2	.965	12	.600	11	.550	24.51	12	15.24	11	13.97
31	2	1.115	15	.750	14	.700	28.32	15	19.05	14	17.78
37	2	1.265	18	.900	17	.850	32.13	18	22.86	17	21.59
51	2	1.615	25	1.250	24	1.200	41.02	25	31.75	24	30.48

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Latching Micro-D Flex Tail (TYPE FF)

Omnetics high reliability Micro-D connectors are available with Quick Latch System. For applications that require a secure connection, these latches require no tools and offer great ease in handling. complications from uneven turning of the traditional threaded hardware are no longer a problem.
The highly rugged Latching Micro-D connectors are built to meet or exceed the specification of MIL-DTL-83513. The Latching 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.
These connectors are available in shell styles from 9 to 51 contacts. The aluminium shell is available, with multiple plating options, upon request. A panel mount version of the Latching Micro-D is currently available with discrete wire, cable, or solder cup.

Electrical-Mechanical Specifications

- Operating Temperature: -55°C to 125°C (200 °C with High Temp Epoxy)
- Dielectric Withstand Voltage: 600 VAC RMS @sea level
- Contact Resistance: 26 milliohms(65 mV) Max @2.5 AMPS
- Current Rating: 3 AMPS per contact
- Durability: 500 Mating Cycles min
- Insulation Resistance: 5000 megohms @ 500 VDC
- Shock: 50 g's with no discontinuties > 1 microsecond
- Vibration: 20 g's with no discontinuties > 1 microsecond
- Thermal Vacuum Outgassing (Space Class): 1.0% max TML, 0.1% max VCM
- Mating/Unmating Force: 10 oz (0.283 kg) max per contact

Material Specifications

- 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
- Interfacial Seal: Silicone Elastomer per A-A-59588
- Hardware: Stainless Steel, 300 Series, Passivated per SAE AMS-2700

Shell Options

- Aluminum with Nickel Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Nickel per SAE-AMS-2404
- Stainless Steel: 300 Series, Passivated per SAE AMS-2700
- Aluminum with Cadmium Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Cadmium With Yellow Chromate Conversion per SAE-AMS-QQ-P-416, Type II, Class 3 Over Nickel Underplate

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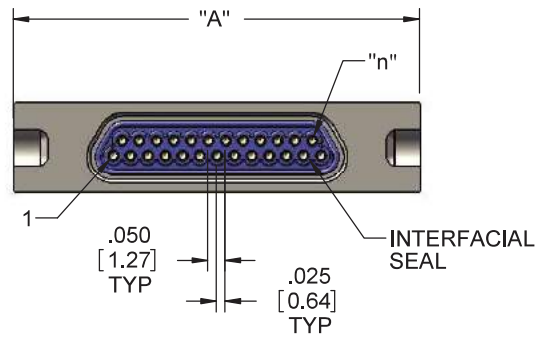
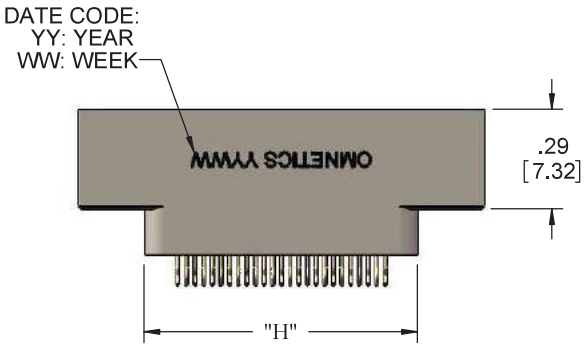
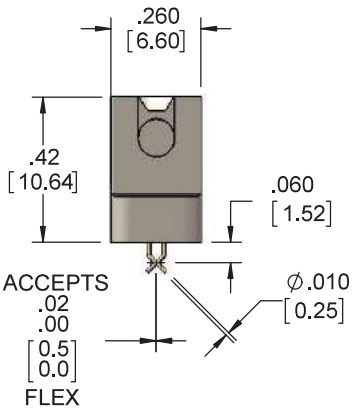
Latching Micro-D Female Flex Tail (TYPE FF)







Contacts	English (IN)		Metric (mm)	
"n"	Rows	"A"	"H"	"A"	"H"
9	2	.775	.390	19.69	9.91
15	2	.925	.540	23.50	13.72
21	2	1.075	.690	27.31	17.53
25	2	1.175	.790	29.85	20.07
31	2	1.325	.940	33.66	23.88
37	2	1.475	1.090	37.47	27.69
51	2	1.825	1.440	46.36	36.58

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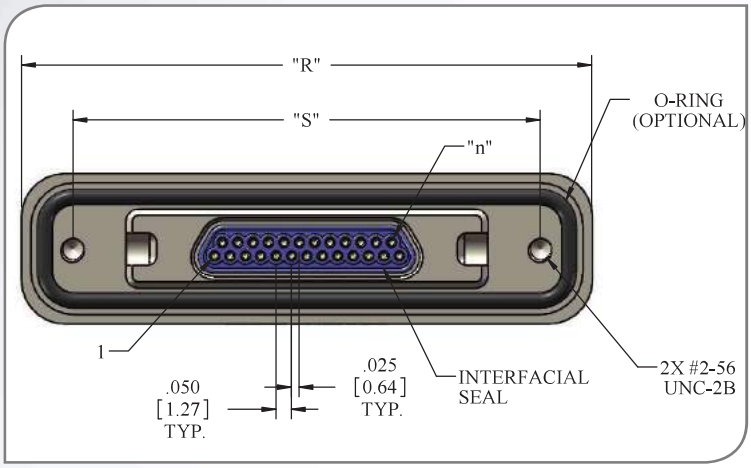
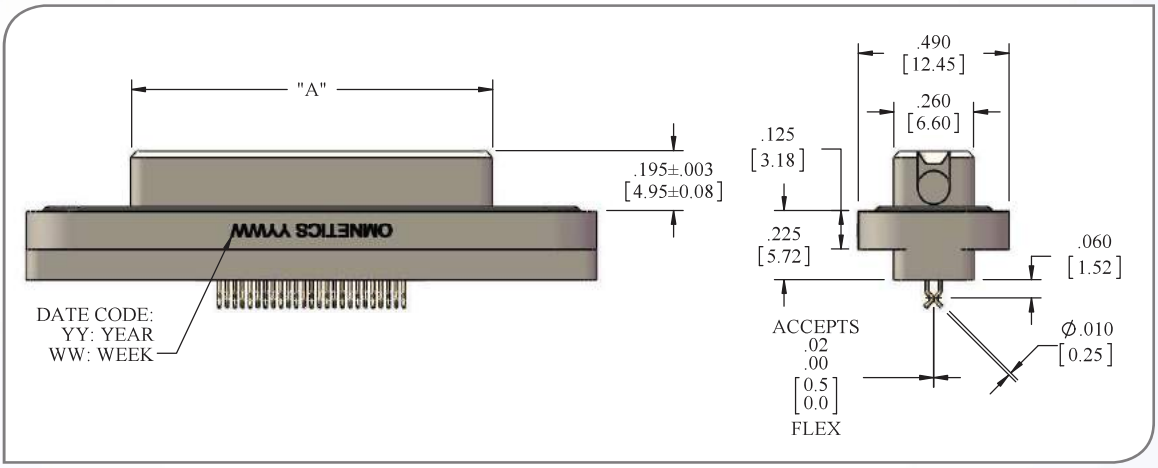
Latching Micro-D Female Flex Tail Panel Mount (TYPE FF)





Contacts — English (IN) — Metric (mm)

"n"	Rows	"A"	"R"	"S"	"A"	"R"	"S"
9	2	.775	1.455	1.120	19.69	36.96	28.45
15	2	.925	1.605	1.270	23.50	40.77	32.26
21	2	1.075	1.755	1.420	27.31	44.58	36.07
25	2	1.175	1.855	1.520	29.85	47.12	38.61
31	2	1.325	2.005	1.670	33.66	50.93	42.42
37	2	1.475	2.155	1.820	37.47	54.74	46.23
51	2	1.825	2.505	2.170	46.36	63.63	52.12

CAGE Code 61873

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Latching Micro-D Flex Tail (TYPE FF)

Series

LMD
S-Socket

of Contacts

009
015
021
025
031
037
512
(Two Row 051)

Options:
001-051

Shell Material and Finish / Hardware

N (STD)
Aluminum Shell,
Electroless Nickel Plated

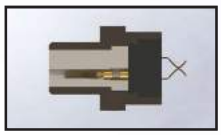
C
Aluminum Shell,
Cadmium Plated

B
Aluminum Shell,
Black Anodized

P
Stainless Steel Shell,
Passivated

Termination Type

FF - Flex Tail



Options

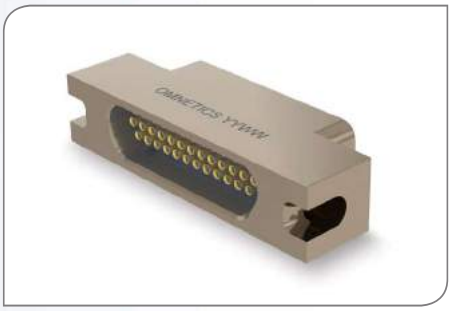
HTE
High Temp.
Epoxy

RH
RoHS
COMPLIANT

PA
Panel Mount, Rear,
O-Ring

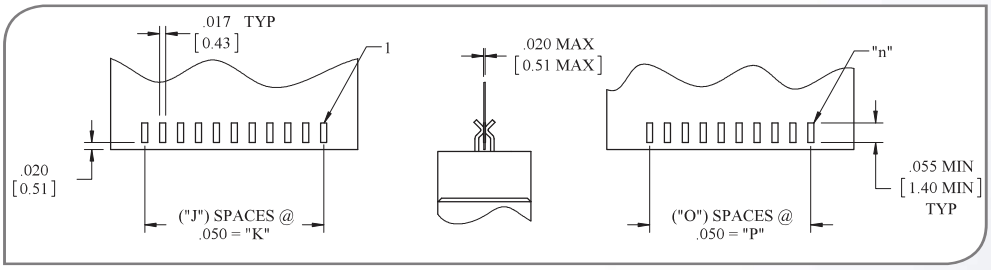
PB
Panel Mount, Rear

Example



LMDS-025-N51-FF-RH

51- Latch Receptacle



Contacts

English (IN)

Metric (mm)

"n"	Rows	"J"	"K"	"O"	"P"	"J"	"K"	"O"	"P"
9	2	4	.200	3	.150	4	5.08	3	3.81
15	2	7	.350	6	.300	7	8.89	6	7.62
21	2	10	.500	9	.450	10	12.70	9	11.43
25	2	12	.600	11	.550	12	15.24	11	13.97
31	2	15	.750	14	.700	15	19.05	14	17.78
37	2	18	.900	17	.850	18	22.86	17	21.59
51	2	25	1.250	24	1.200	25	31.75	24	30.48

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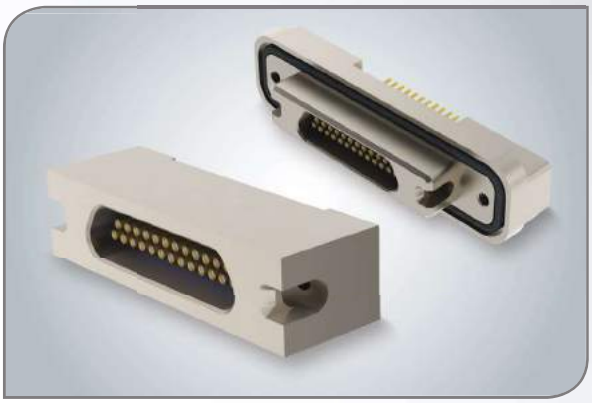
Latching Micro-D Straight Thru-Hole (TYPE S2)

Omnetics high reliability Micro-D connectors are available with Quick Latch System. For applications that require a secure connection, these latches require no tools and offer great ease in handling. complications from uneven turning of the traditional threaded hardware are no longer a problem.
The highly rugged Latching Micro-D connectors are built to meet or exceed the specification of MIL-DTL-83513. The Latching 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.
These connectors are available in shell styles from 9 to 51 contacts. The aluminium shell is available, with multiple plating options, upon request. A panel mount version of the Latching Micro-D is currently available with discrete wire, cable, or solder cup.



Electrical-Mechanical Specifications

- Operating Temperature: -55°C to 125°C (200 °C with High Temp Epoxy)
- Dielectric Withstand Voltage: 600 VAC RMS @sea level
- Contact Resistance: 26 milliohms(65 mV) Max @2.5 AMPS
- Current Rating: 3 AMPS per contact
- Durability: 500 Mating Cycles min
- Insulation Resistance: 5000 megohms @ 500 VDC
- Shock: 50 g's with no discontinuties > 1 microsecond
- Vibration: 20 g's with no discontinuties > 1 microsecond
- Thermal Vacuum Outgassing (Space Class): 1.0% max TML, 0.1% max VCM
- Mating/Unmating Force: 10 oz (0.283 kg) max per contact

Material Specifications

- 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
- Interfacial Seal: Silicone Elastomer per A-A-59588
- Hardware: Stainless Steel, 300 Series, Passivated per SAE AMS-2700

Shell Options

- Aluminum with Nickel Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Nickel per SAE-AMS-2404
- Stainless Steel: 300 Series, Passivated per SAE AMS-2700
- Aluminum with Cadmium Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Cadmium With Yellow Chromate Conversion per SAE-AMS-QQ-P-416, Type II, Class 3 Over Nickel Underplate

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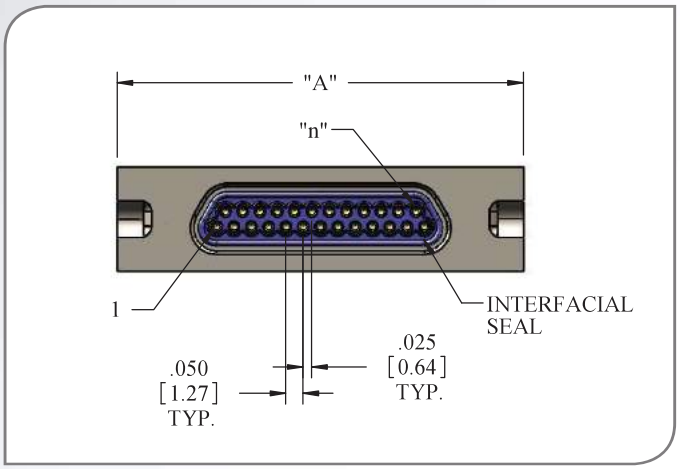
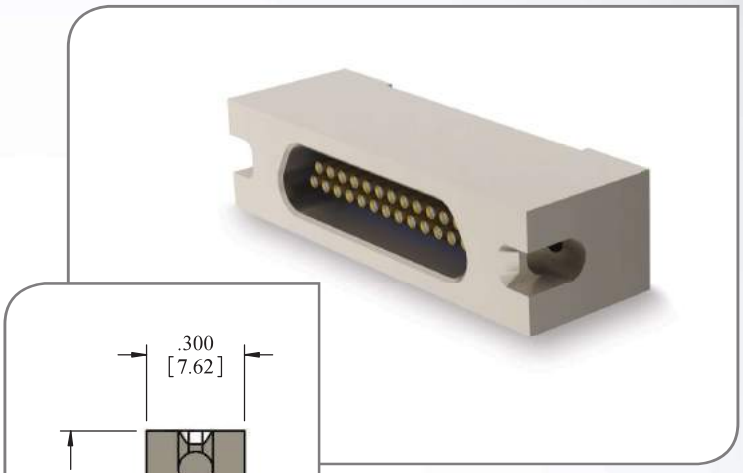
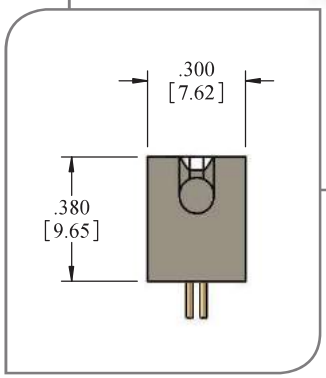
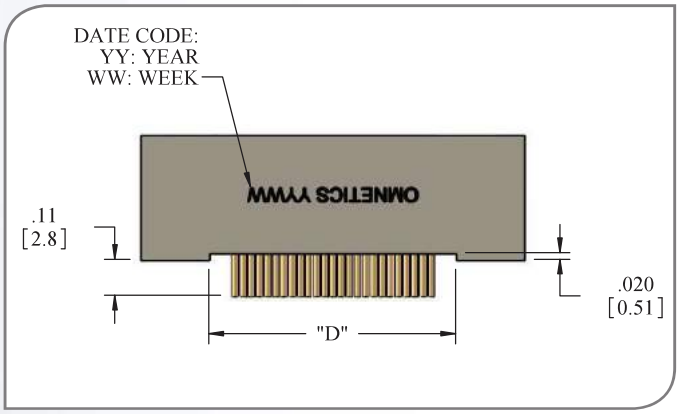
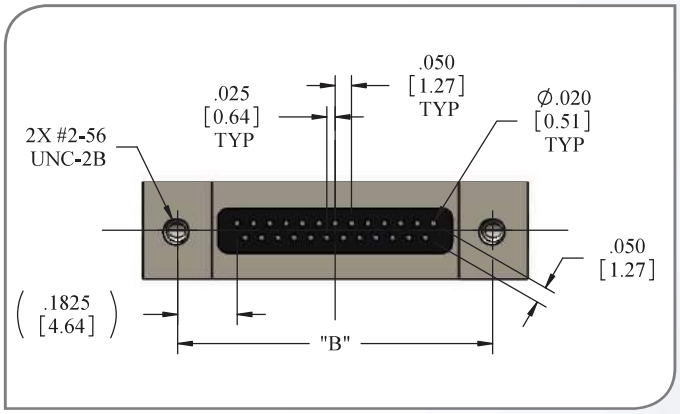
Latching Micro-D Female Straight Thru-Hole (TYPE S2)











Contacts — English (IN) — Metric (mm)

"n"	Rows	"A"	"B"	"D"	"A"	"B"	"D"
9	2	.775	.565	.355	19.69	14.35	9.02
15	2	.925	.715	.505	23.50	18.16	12.83
21	2	1.075	.865	.655	27.31	21.97	16.64
25	2	1.175	.965	.755	29.85	24.51	19.18
31	2	1.325	1.115	.905	33.66	28.32	22.99
37	2	1.475	1.265	1.055	37.47	32.13	26.80
51	2	1.825	1.615	1.405	46.36	41.02	35.69

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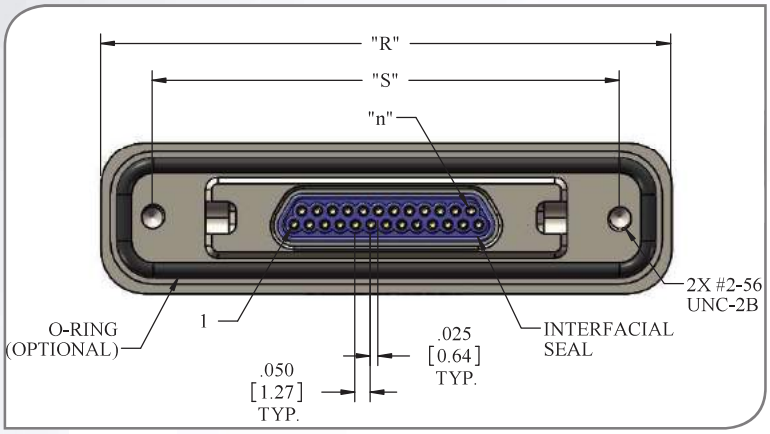
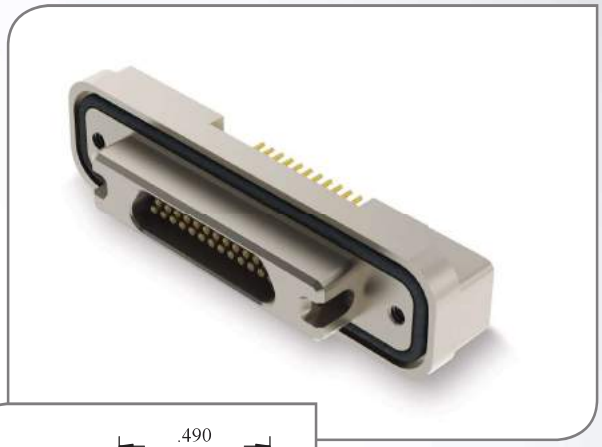
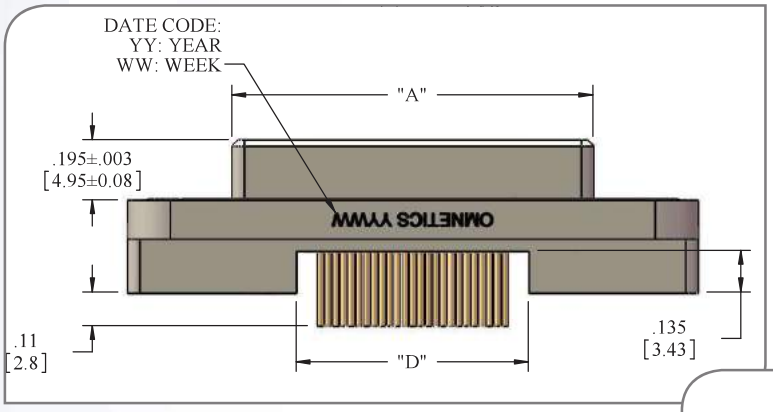
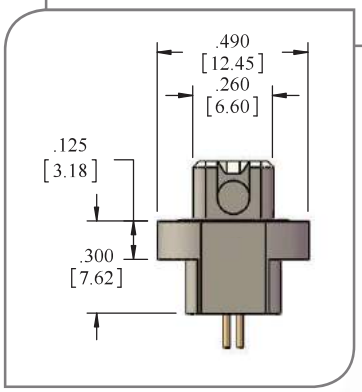
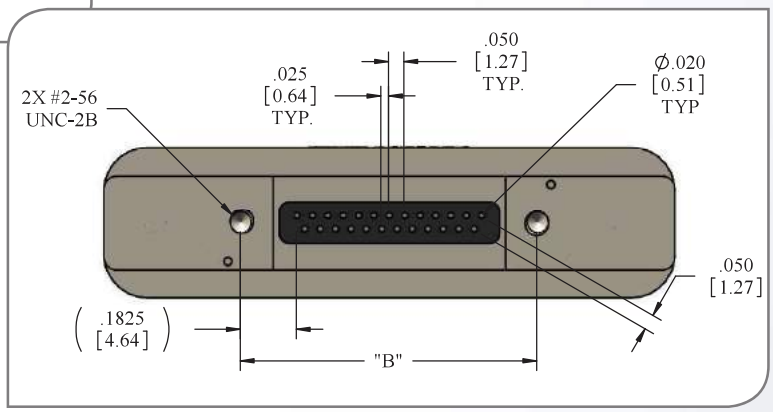
Latching Micro-D Female Straight Thru-Hole Panel Mount (TYPE S2)











Contacts	English (IN)						Metric (mm)				
"n"	Rows	"A"	"B"	"D"	"R"	"S"	"A"	"B"	"D"	"R"	"S"
9	2	.775	.565	.355	1.455	1.120	19.69	14.35	9.02	36.96	28.45
15	2	.925	.715	.505	1.605	1.270	23.50	18.16	12.83	40.77	32.26
21	2	1.075	.865	.655	1.755	1.420	27.31	21.97	16.64	44.58	36.07
25	2	1.175	.965	.755	1.855	1.520	29.85	24.51	19.18	47.12	38.61
31	2	1.325	1.115	.905	2.005	1.670	33.66	28.32	22.99	50.93	42.42
37	2	1.475	1.265	1.055	2.155	1.820	37.47	32.13	26.80	54.74	46.23
51	2	1.825	1.615	1.405	2.505	2.170	46.36	41.02	35.69	63.63	52.12

CAGE Code 61873

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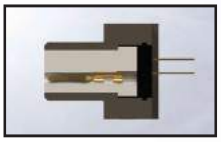
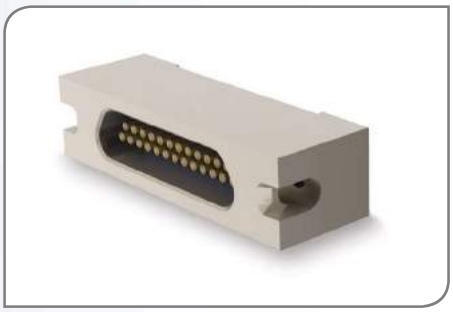
Latching Micro-D Straight Thru-Hole (TYPE S2)

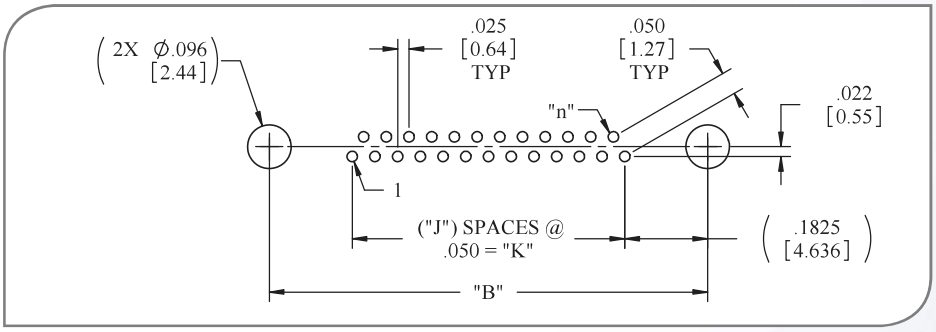
Series	# of Contacts	Shell Material and Finish / Hardware	Termination Type	Options
LMD S-Socket	**009** **015** **021** **025** **031** **037** **512** (Two Row 051)	**N (STD)** Aluminum Shell, Electroless Nickel Plated	**S2 -** Straight Thru-Hole	**HTE** High Temp. Epoxy
	Options: 001-051	**C** Aluminum Shell, Cadmium Plated		**RH** RoHS COMPLIANT
		B Aluminum Shell, Black Anodized		**PA** Panel Mount, Rear, O-Ring
		P Stainless Steel Shell, Passivated		**PB** Panel Mount, Rear
		51- Latch Receptacle		



Example



LMDS-025-N51-S2



Contacts — English (IN) — Metric (mm)

"n"	Rows	"B"	"J"	"K"	"B"	"J"	"K"
9	2	.565	4	.200	14.35	4	5.08
15	2	.715	7	.350	18.16	7	8.89
21	2	.865	10	.500	21.97	10	12.70
25	2	.965	12	.600	24.51	12	15.24
31	2	1.115	15	.750	28.32	15	19.05
37	2	1.265	18	.900	32.13	18	22.86
51	2	1.615	25	1.250	41.02	25	31.75

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Latching Micro-D Right Angle Thru-Hole (TYPE R2)

Omnetics high reliability Micro-D connectors are available with Quick Latch System. For applications that require a secure connection, these latches require no tools and offer great ease in handling. complications from uneven turning of the traditional threaded hardware are no longer a problem.
The highly rugged Latching Micro-D connectors are built to meet or exceed the specification of MIL-DTL-83513. The Latching 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. These connectors are available in shell styles from 9 to 51 contacts. The aluminium shell is available, with multiple plating options, upon request.
A panel mount version of the Latching Micro-D is currently available with discrete wire, cable, or solder cup.

Electrical-Mechanical Specifications

- Operating Temperature: -55°C to 125°C (200 °C with High Temp Epoxy)
- Dielectric Withstand Voltage: 600 VAC RMS @sea level
- Contact Resistance: 26 milliohms(65 mV) Max @2.5 AMPS
- Current Rating: 3 AMPS per contact
- Durability: 500 Mating Cycles min
- Insulation Resistance: 5000 megohms @ 500 VDC
- Shock: 50 g's with no discontinuties > 1 microsecond
- Vibration: 20 g's with no discontinuties > 1 microsecond
- Thermal Vacuum Outgassing (Space Class): 1.0% max TML, 0.1% max VCM
- Mating/Unmating Force: 10 oz (0.283 kg) max per contact

Material Specifications

- 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
- Interfacial Seal: Silicone Elastomer per A-A-59588
- Hardware: Stainless Steel, 300 Series, Passivated per SAE AMS-2700

Shell Options

- Aluminum with Nickel Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Nickel per SAE-AMS-2404
- Stainless Steel: 300 Series, Passivated per SAE AMS-2700
- Aluminum with Cadmium Plating: Alloy 6061 per SAE AMS-QQ-A-200/8, Cadmium With Yellow Chromate Conversion per SAE-AMS-QQ-P-416, Type II, Class 3 Over Nickel Underplate

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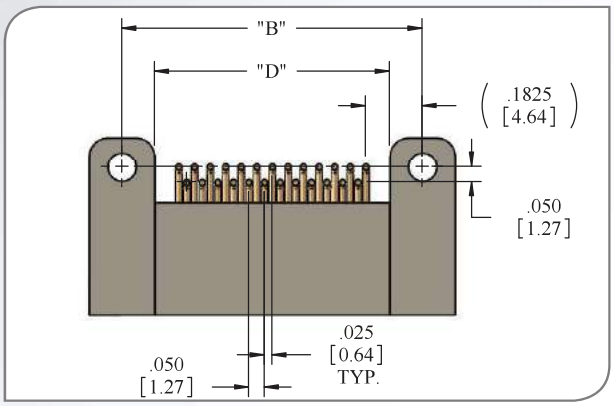
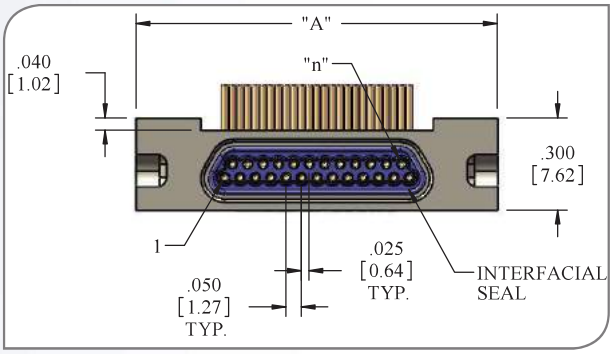
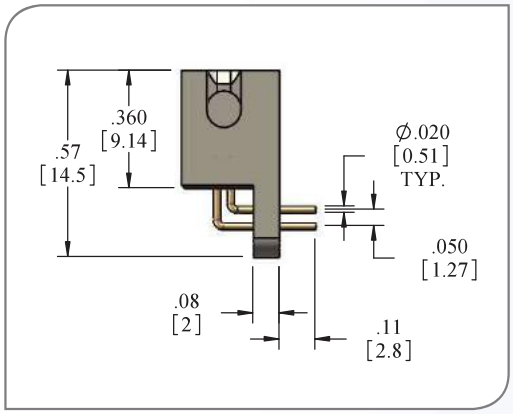
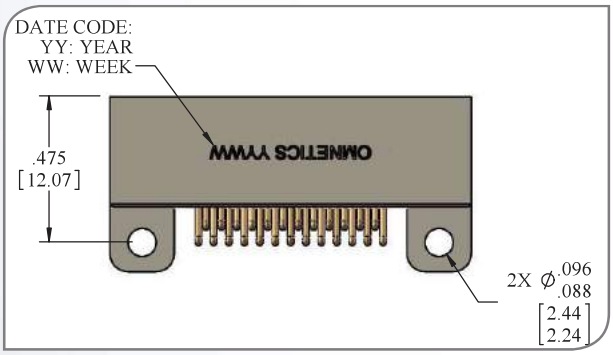
Latching Micro-D Female Right Angle Thru-Hole (TYPE R2)









Contacts	English (IN)			Metric (mm)		
"n"	Rows	"A"	"B"	"D"	"A"	"B"	"D"
9	2	.775	.565	.355	19.69	14.35	9.02
15	2	.925	.715	.505	23.50	18.16	12.83
21	2	1.075	.865	.655	27.31	21.97	16.64
25	2	1.175	.965	.755	29.85	24.51	19.18
31	2	1.325	1.115	.905	33.66	28.32	22.99
37	2	1.475	1.265	1.055	37.47	32.13	26.80
51	2	1.825	1.615	1.405	46.36	41.02	35.69

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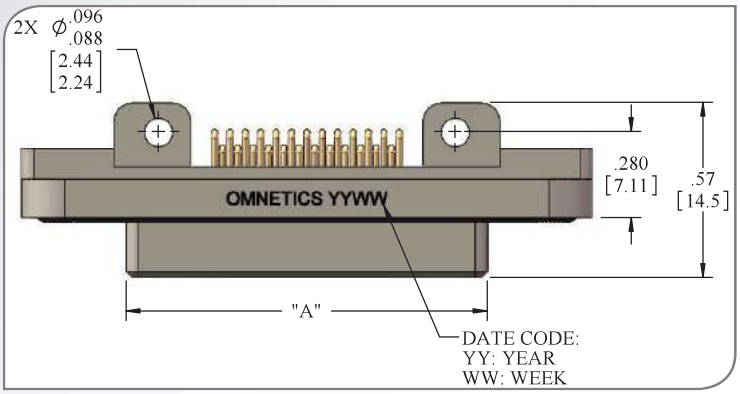
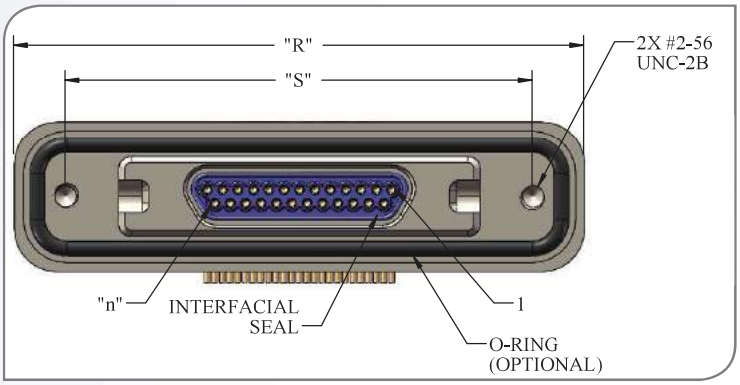
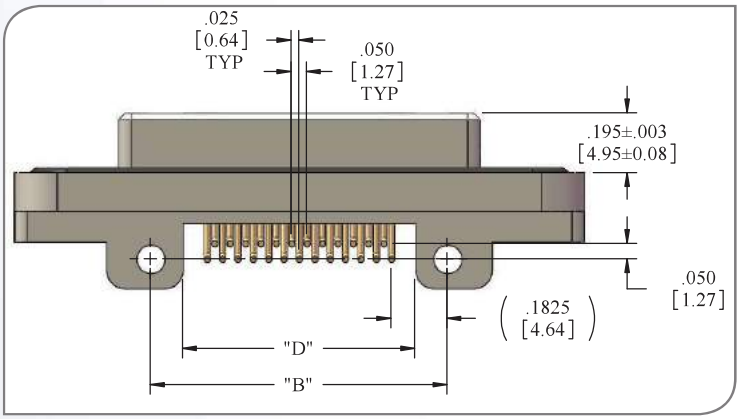
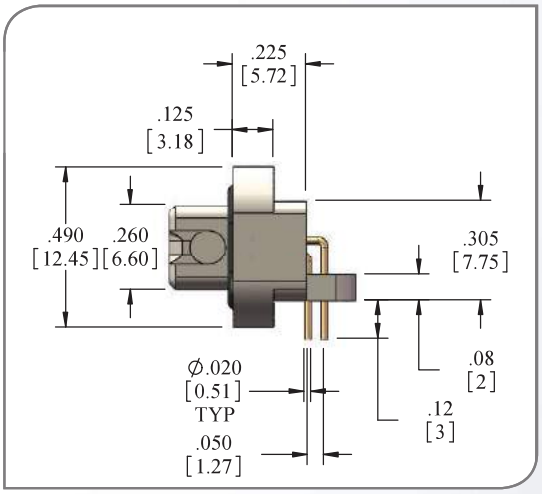
Latching Micro-D Female Right Angle Thru-Hole Panel Mount (TYPE R2)









Contacts / English (IN) / Metric (mm)

"n"	Rows	"A"	"B"	"D"	"R"	"S"	"A"	"B"	"D"	"R"	"S"
9	2	.775	.565	.355	1.455	1.120	19.69	14.35	9.02	36.96	28.45
15	2	.925	.715	.505	1.605	1.270	23.50	18.16	12.83	40.77	32.26
21	2	1.075	.865	.655	1.755	1.420	27.31	21.97	16.64	44.58	36.07
25	2	1.175	.965	.755	1.855	1.520	29.85	24.51	19.18	47.12	38.61
31	2	1.325	1.115	.905	2.005	1.670	33.66	28.32	22.99	50.93	42.42
37	2	1.475	1.265	1.055	2.155	1.820	37.47	32.13	26.80	54.74	46.23
51	2	1.825	1.615	1.405	2.505	2.170	46.36	41.02	35.69	63.63	52.12

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Latching Micro-D Right Angle Thru-Hole (TYPE R2)

Series

LMD
S-Socket

of Contacts

009
015
021
025
031
037
512
(Two Row 051)

Options:
001-051

Shell Material and Finish / Hardware

N (STD)
Aluminum Shell, Electroless Nickel Plated

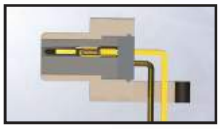
C
Aluminum Shell, Cadmium Plated

B
Aluminum Shell, Black Anodized

P
Stainless Steel Shell, Passivated

Termination Type

R2 - Right Angle Thru-Hole



Options

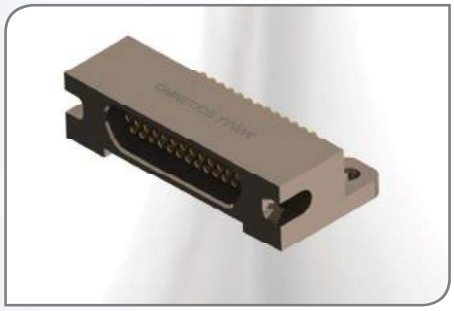
HTE
High Temp. Epoxy

RH
RoHS COMPLIANT

PA
Panel Mount, Rear, O-Ring

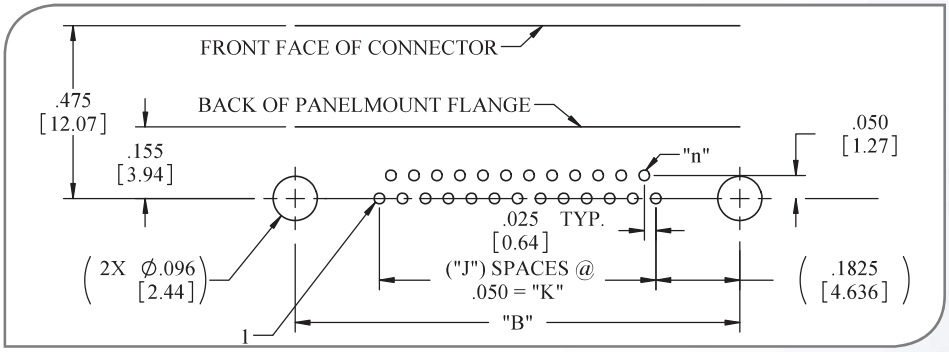
PB
Panel Mount, Rear

Example



LMDS-025-N51-R2-HT-RH

51- Latch Receptacle



Contacts / English (IN) / Metric (mm)

"n"	Rows	"B"	"J"	"K"	"B"	"J"	"K"
9	2	.565	4	.200	14.35	4	5.08
15	2	.715	7	.350	18.16	7	8.89
21	2	.865	10	.500	21.97	10	12.70
25	2	.965	12	.600	24.51	12	15.24
31	2	1.115	15	.750	28.32	15	19.05
37	2	1.265	18	.900	32.13	18	22.86
51	2	1.615	25	1.250	41.02	25	31.75

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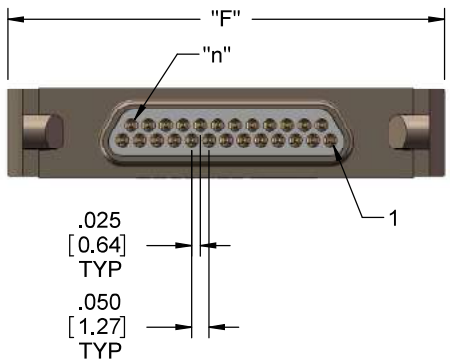
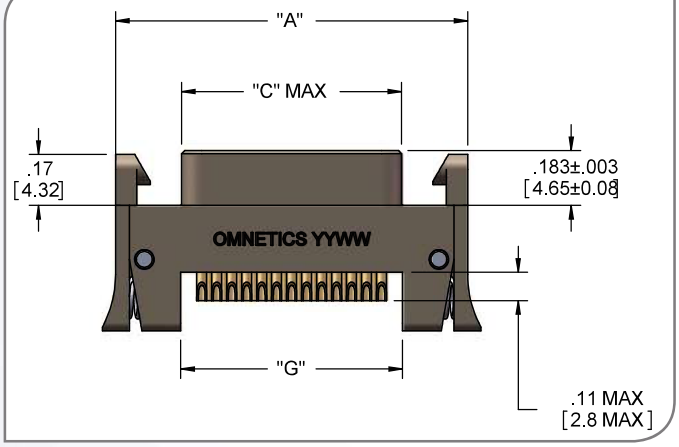
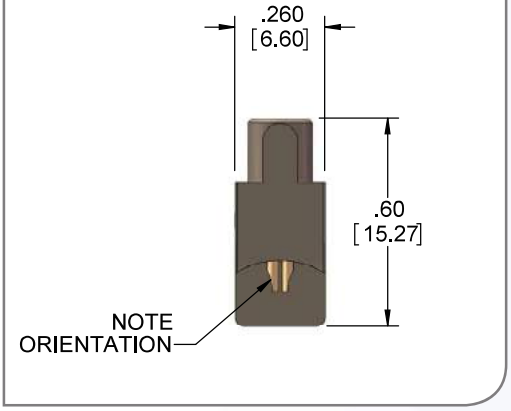
Latching Micro-D Male Solder Cup (TYPE SS)







Contacts	English (IN)				Metric (mm)				
"n"	Rows	"A"	"C"	"F"	"G"	"A"	"C"	"F"	"G"
9	2	.775	.334	.86	.340	19.70	8.50	21.8	8.60
15	2	.925	.484	1.01	.490	23.50	12.30	25.7	12.40
21	2	1.075	.635	1.16	.640	27.30	16.10	29.5	16.30
25	2	1.175	.734	1.26	.740	29.80	18.60	32.0	18.80
31	2	1.325	.884	1.41	.890	33.70	22.50	35.8	22.60
37	2	1.475	1.034	1.56	1.040	37.50	26.30	39.6	26.40
51	2	1.825	1.384	1.91	1.390	46.40	35.20	48.5	35.30

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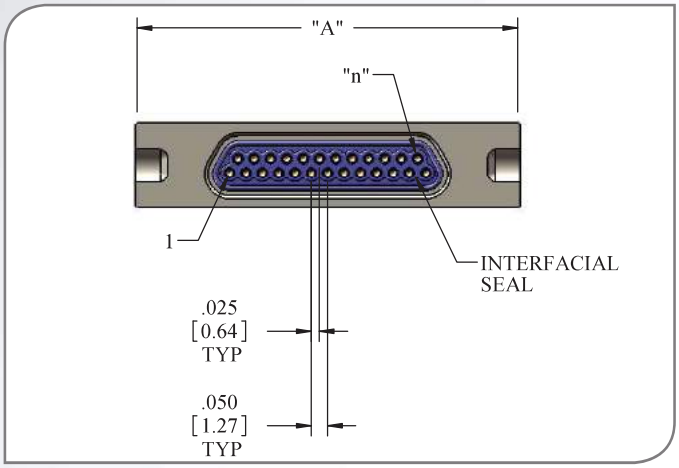
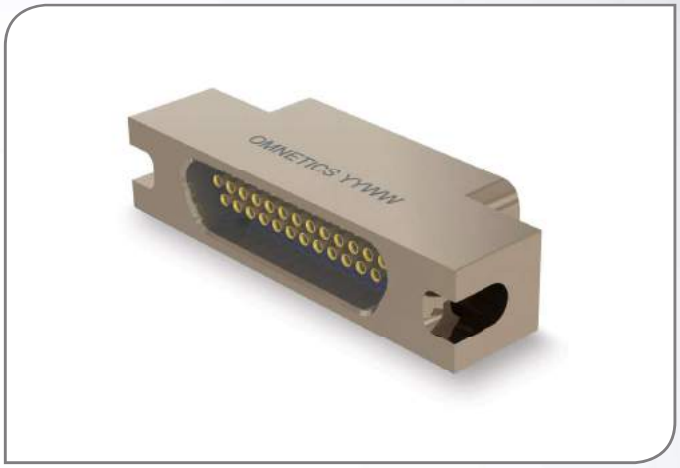
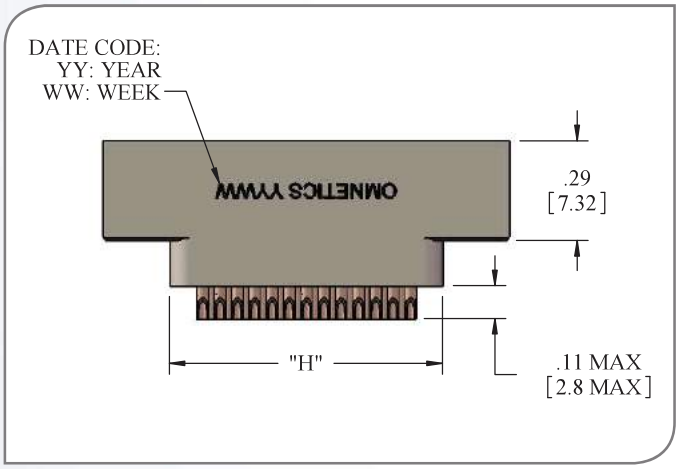
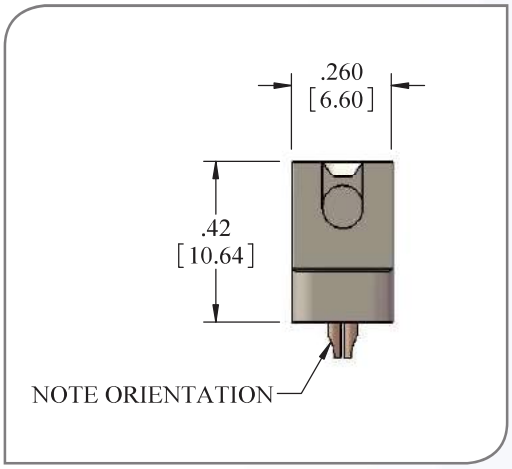
Latching Micro-D Female Solder Cup (TYPE SS)









Contacts	English (IN)		Metric (mm)	
"n"	Rows	"A"	"H"	"A"	"H"
9	2	.775	.390	19.69	9.91
15	2	.925	.540	23.50	13.72
21	2	1.075	.690	27.31	17.53
25	2	1.175	.790	29.85	20.07
31	2	1.325	.940	33.66	23.88
37	2	1.475	1.090	37.47	27.69
51	2	1.825	1.440	46.36	36.58

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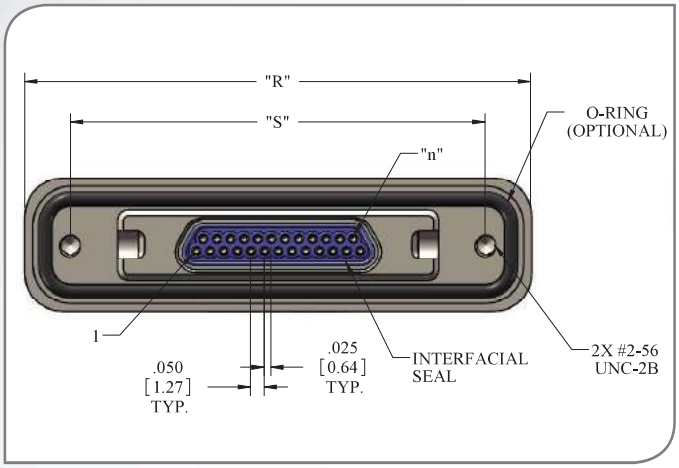
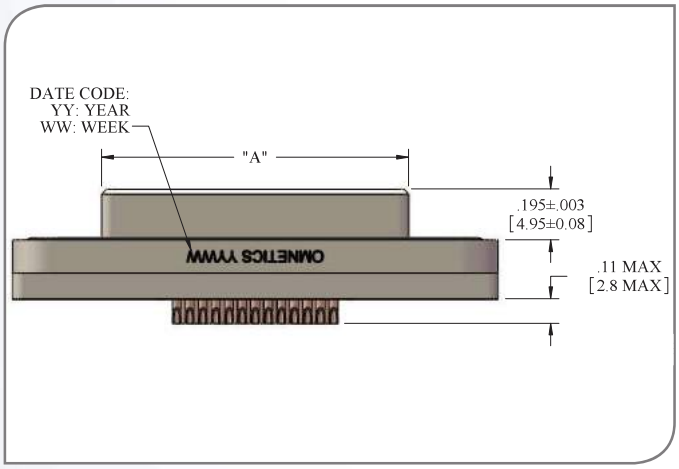
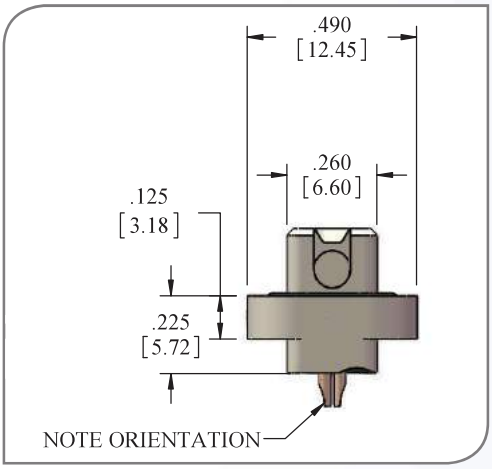
Latching Micro-D Female Solder Cup Panel Mount (TYPE SS)







Contacts	English (IN)			Metric (mm)		
"n"	Rows	"A"	"R"	"S"	"A"	"R"	"S"
9	2	.775	1.455	1.120	19.69	36.96	28.45
15	2	.925	1.605	1.270	23.50	40.77	32.26
21	2	1.075	1.755	1.420	27.31	44.58	36.07
25	2	1.175	1.855	1.520	29.85	47.12	38.61
31	2	1.325	2.005	1.670	33.66	50.93	42.42
37	2	1.475	2.155	1.820	37.47	54.74	46.23
51	2	1.825	2.505	2.170	46.36	63.63	55.12

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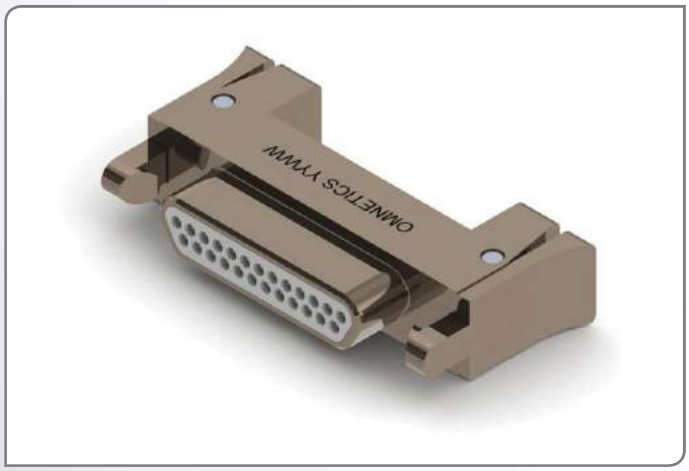
Latching Micro-D Solder Cup (TYPE SS)

Series	# of Contacts	Shell Material and Finish / Hardware	Termination Type	Options
LMD P-Pin	**009** **015** **021** **025** **031** **037** **512** (Two Row 051)	**N (STD)** Aluminum Shell, Electroless Nickel Plated	**SS -** Solder cup	**HTE** High Temp. Epoxy
S-Socket	Options: 001-051	**C** Aluminum Shell, Cadmium Plated		**RH** RoHS COMPLIANT
		B Aluminum Shell, Black Anodized		**PA -** N51 **(Female Only)** Panel Mount, Rear, O-Ring
		P Stainless Steel Shell, Passivated		**PB -** N51 **(Female Only)** Panel Mount, Rear
		50- Latch - N50 **(Male Only)**		
		51- Latch Receptical -N51 **(Female Only)**		

Examples



LMDP-025-N50-SS-RH

LMDS-025-N51-SS-HT-PA

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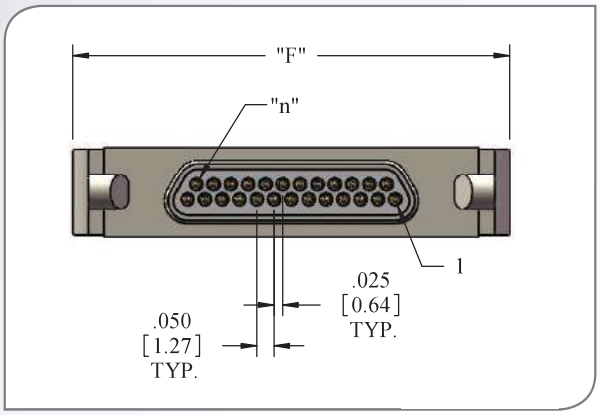
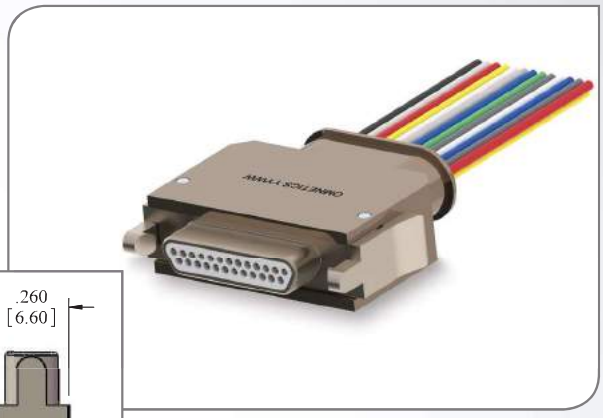
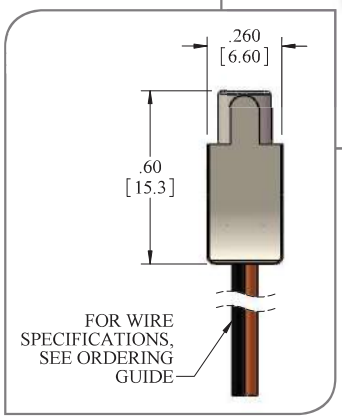
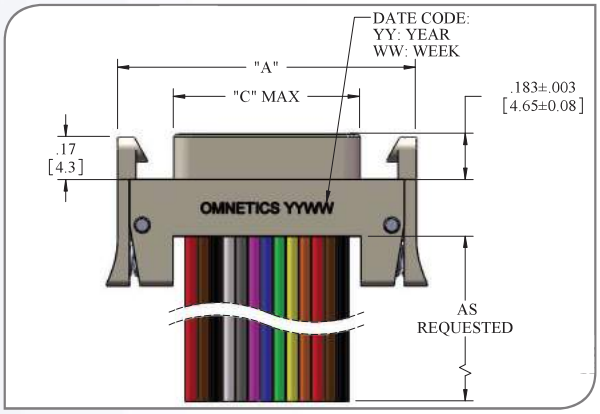
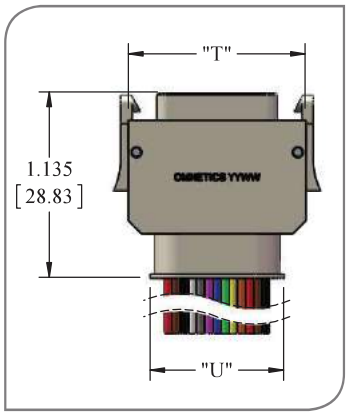
Latching Micro-D Male Discrete Leadwire (TYPE WD)

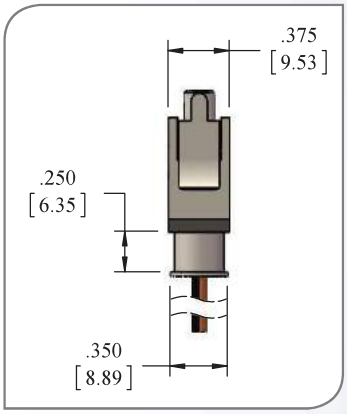












*Shown with optional backshell

Contacts / English (IN) / Metric (mm)

"n"	Rows	"A"	"H"	"T"	"U"	"A"	"H"	"T"	"U"
9	2	.775	.390	.683	.418	19.7	9.91	17.35	10.62
15	2	.925	.540	.833	.568	23.5	13.72	21.16	14.43
21	2	1.075	.690	.938	.718	27.3	17.53	24.97	18.24
25	2	1.175	.790	1.083	.818	29.8	20.07	27.51	20.78
31	2	1.325	.940	1.233	.968	33.7	23.88	31.32	24.59
37	2	1.475	1.090	1.383	1.118	37.5	27.69	35.13	28.40
51	2	1.825	1.440	1.733	1.468	46.4	36.58	44.02	37.29

CAGE Code 61873

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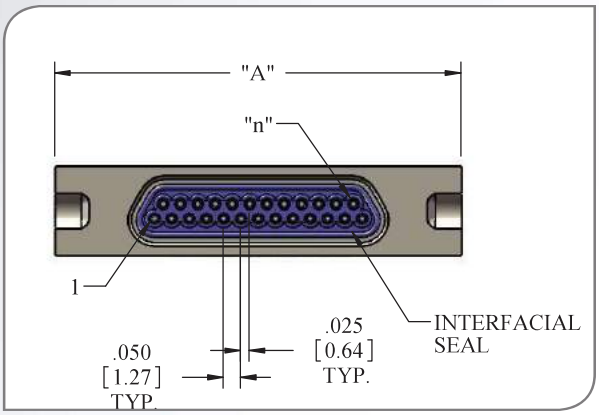
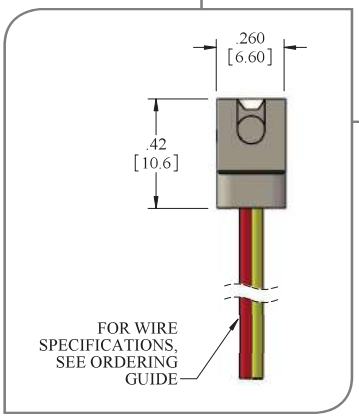
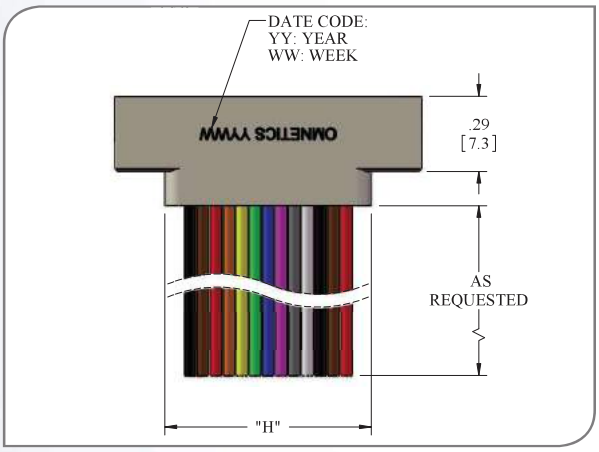
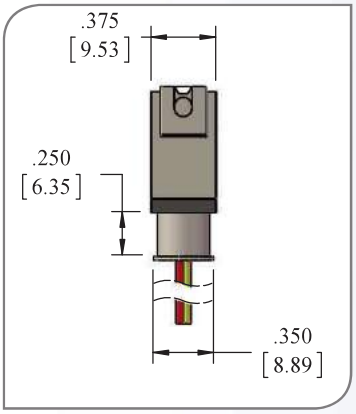
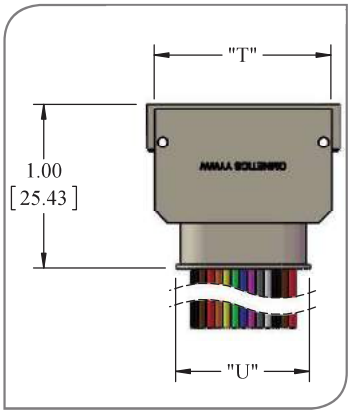
Latching Micro-D Female Discrete Leadwire (TYPE WD)











*Shown with optional backshell

Contacts / English (IN) / Metric (mm)

"n"	Rows	"A"	"H"	"T"	"U"	"A"	"H"	"T"	"U"
9	2	.775	.390	.683	.418	19.7	9.91	17.35	10.62
15	2	.925	.540	.833	.568	23.5	13.72	21.16	14.43
21	2	1.075	.690	.938	.718	27.3	17.53	24.97	18.24
25	2	1.175	.790	1.083	.818	29.8	20.07	27.51	20.78
31	2	1.325	.940	1.233	.968	33.7	23.88	31.32	24.59
37	2	1.475	1.090	1.383	1.118	37.5	27.69	35.13	28.40
51	2	1.825	1.440	1.733	1.468	46.4	36.58	44.02	37.29

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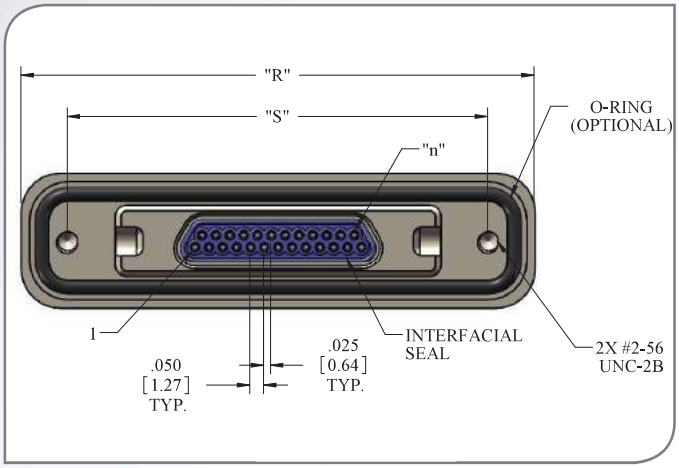
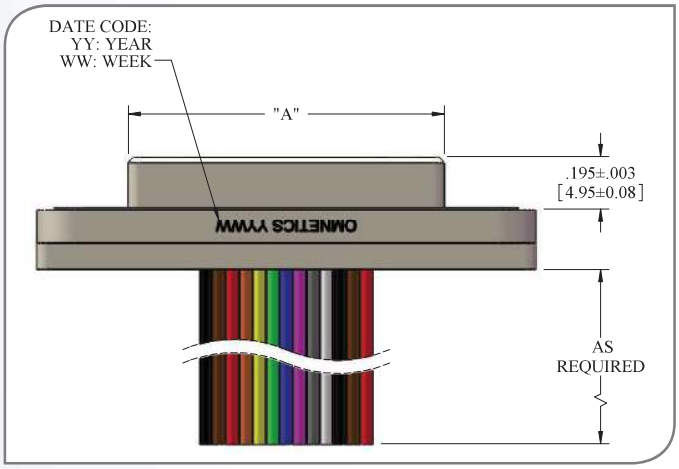
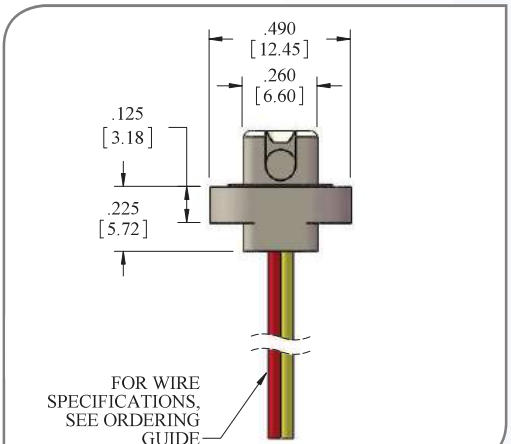
Latching Micro-D Female Discrete Leadwire Panel Mount (TYPE WD)







Contacts	English (IN)			Metric (mm)		
"n"	Rows	"A"	"R"	"S"	"A"	"R"	"S"
9	2	.775	1.455	1.120	19.69	36.96	28.45
15	2	.925	1.605	1.270	23.50	40.77	32.26
21	2	1.075	1.755	1.420	27.31	44.58	36.07
25	2	1.175	1.855	1.520	29.85	47.12	38.61
31	2	1.325	2.005	1.670	33.66	50.93	42.42
37	2	1.475	2.155	1.820	37.47	54.74	46.23
51	2	1.825	2.505	2.170	46.36	63.63	55.12

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E-mail: sales@omnetics.com

Latching Micro-D Male Discrete Leadwire (TYPE WD)

Series

LMD
P-Pin

of Contacts

009
015
021
025
031
037
512

(Two Row 051)
Options:
001-051

Shell Material and Finish / Hardware

N (STD)
Aluminum Shell,
Electroless Nickel Plated

C
Aluminum Shell,
Cadmium Plated

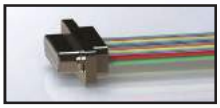
B
Aluminum Shell,
Black Anodized

P
Stainless Steel Shell,
Passivated

50- Latch

Termination Type

WD - Discrete
Leadwire



WIRE AWG:
6 - 26 AWG (STD)
8 - 28 AWG
0 - 30 AWG

WIRE TYPE:
Q - NEMA HP3 (FORMERLY M16878/4 &/6) (STD)
R - M22759/11
S - M22759/33

WIRE LENGTH:
18.0 - 18.00" (STD)
XX.X - CUSTOM LENGTH

COLOR SCHEME:
1 - 10 REPEATING (STD)
2 - BLUE
3 - WHITE
5 - YELLOW

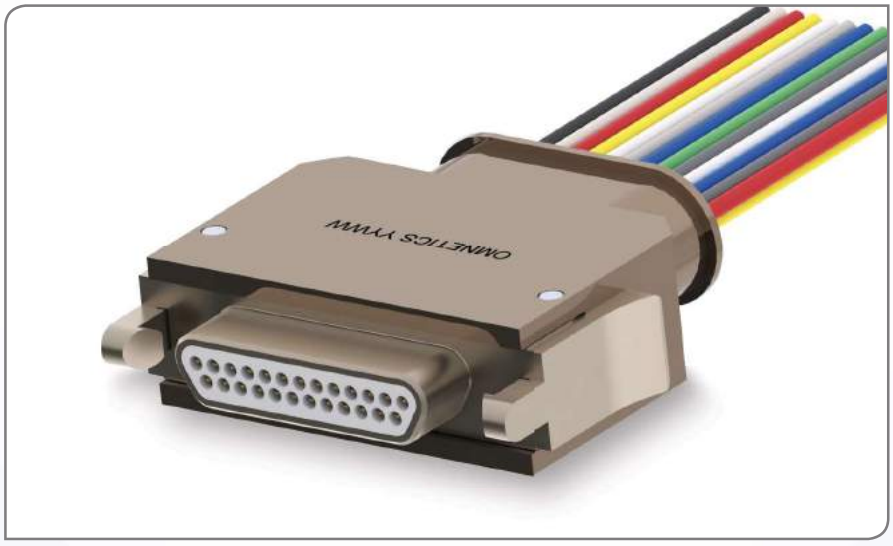
Options

HTE
High Temp.
Epoxy

RH
RoHS
COMPLIANT

BS
Backshell

Example



LMDP-025-N50-WD6Q18.0-1-HTE-BS

Latching Micro-D Female Discrete Leadwire (TYPE WD)

Series

LMD
S-Socket

of Contacts

009
015
021
025
031
037
512
(Two Row 051)

Options:
001-051

Shell Material and Finish / Hardware

N (STD)
Aluminum Shell, Electroless Nickel Plated

C
Aluminum Shell, Cadmium Plated

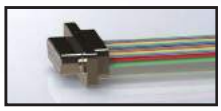
B
Aluminum Shell, Black Anodized

P
Stainless Steel Shell, Passivated

51- Latch Receptacle

Termination Type

WD - Discrete Leadwire



WIRE AWG:
6 - 26 AWG (STD)
8 - 28 AWG
0 - 30 AWG

WIRE TYPE:
Q - NEMA HP3 (FORMERLY M16878/4 &/6) (STD)
R - M22759/11
S - M22759/33

WIRE LENGTH:
18.0 - 18.00" (STD)
XX.X - CUSTOM LENGTH

COLOR SCHEME:
1 - 10 REPEATING (STD)
2 - BLUE
3 - WHITE
5 - YELLOW

Options

HTE
High Temp. Epoxy

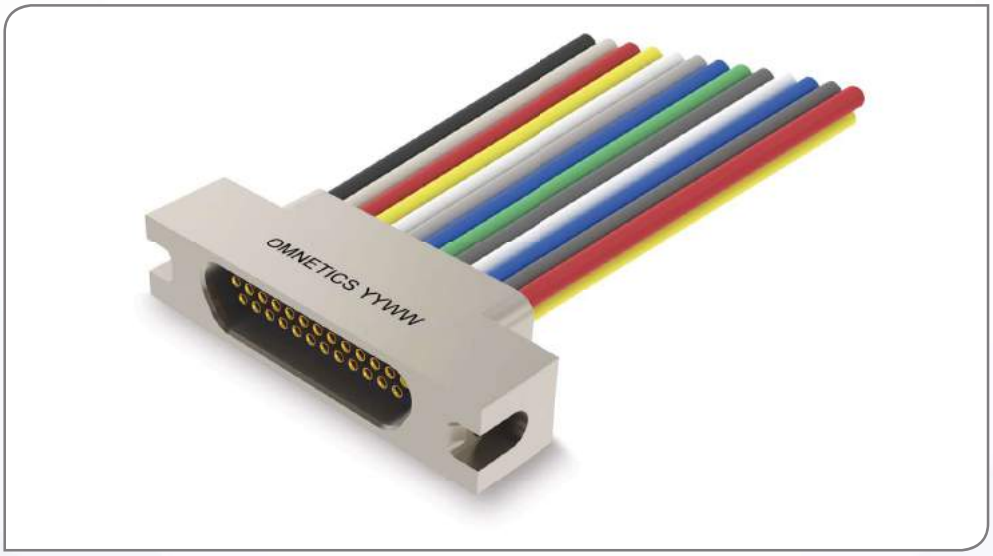
RH
RoHS COMPLIANT

PA
Panel Mount, Rear, O-Ring

PB
Panel Mount, Rear

BS
Backshell

Example



LMDS-025-N51-WD6Q18.0-1-HT

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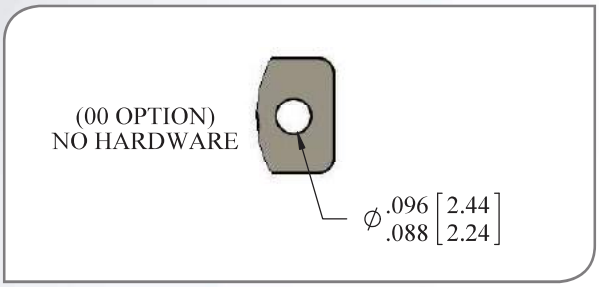
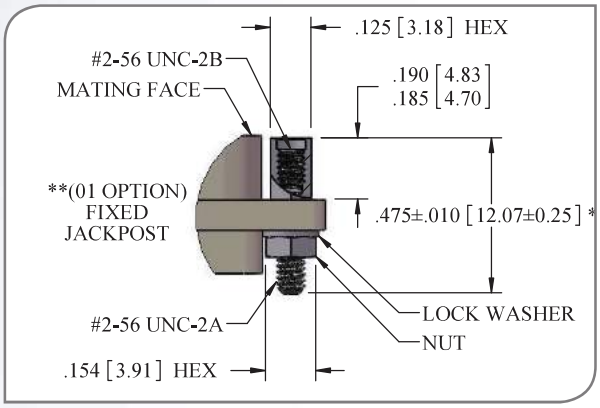
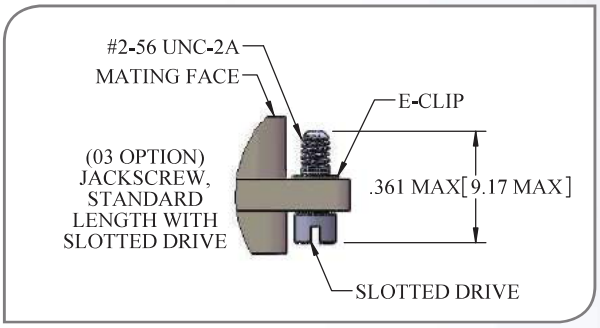
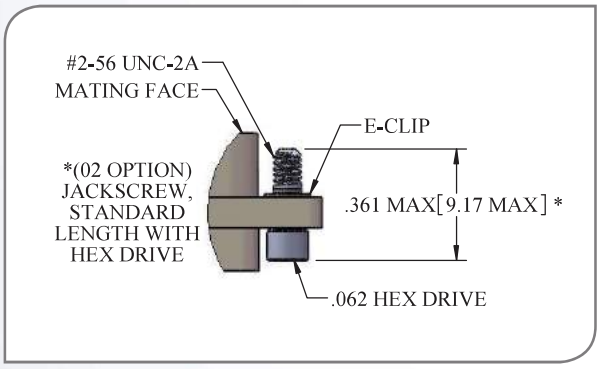
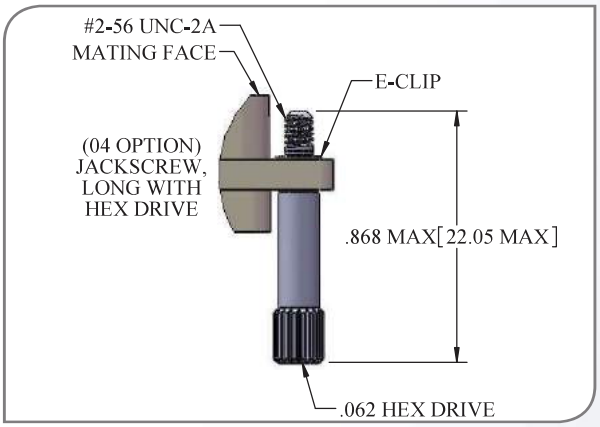
Hardware Selection





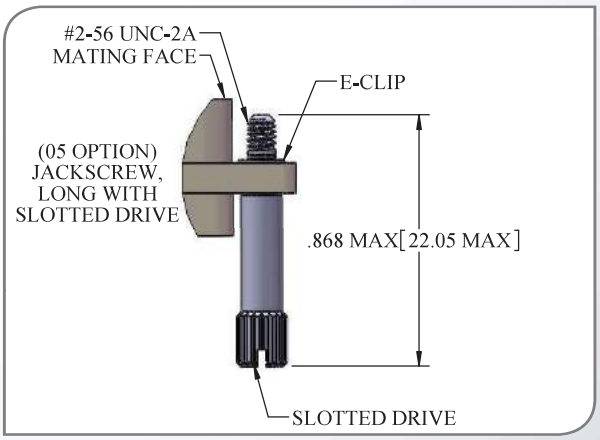






*FOR ALL TYPES EXCEPT HORIZONTAL SURFACE MOUNT (H0). OVERALL LENGTH FOR STANDARD H0 JACKSCREW IS .485 [12.32] MAX.

**FOR ALL TYPES EXCEPT S2 AND R2. OVERALL LENGTH FOR STANDARD S2 JACKPOST IS .560 [14.22] MAX AND .385 [9.78] MAX FOR R2.



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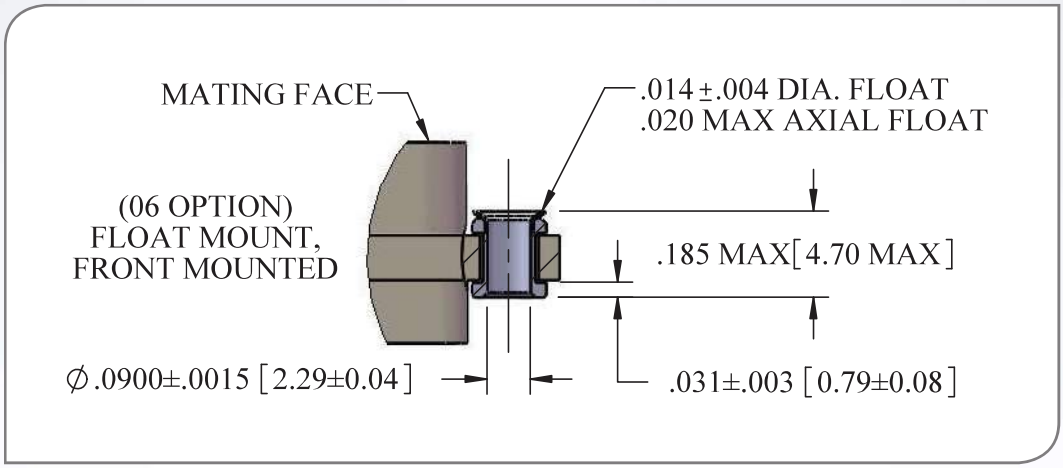
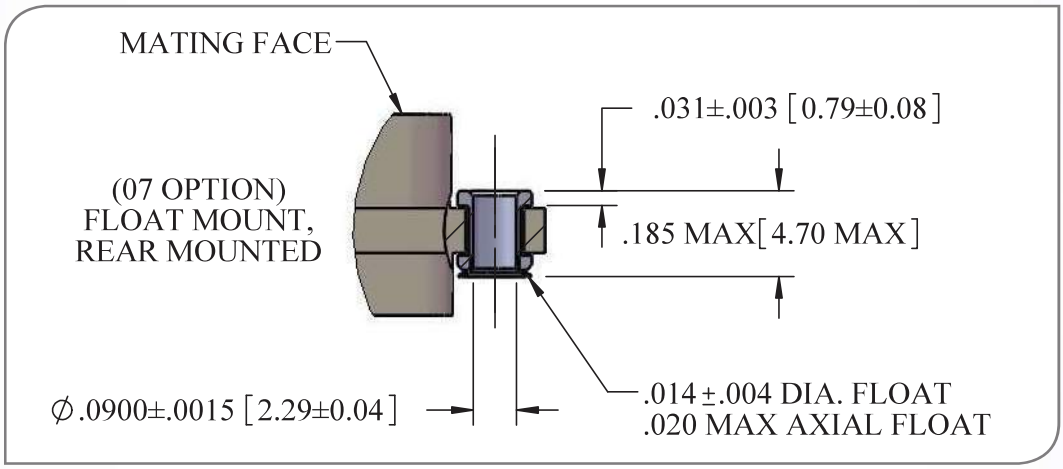
Harware Selection Cont...





TO ORDER LOOSE HARDWARE SEPARATELY, USE OMNETICS PART NUMBERS BELOW

Kit Description	Omnetics Part #	Harware Code (Ref)
Jackscrew Assembly, #2-56, Standard Length with Hex Drive	A 97007-001	02
Jackscrew Assembly, #2-56, Standard Length with Slotted Drive	A 97008-001	03
Jackscrew Assembly, #2-56, Extended Length with Hex Drive	A 97007-002	04
Jackscrew Assembly, #2-56, Extended Length with Slotted Drive	A 97008-002	05
Jackscrew Assembly, #2-56, Standard Length with Hex Drive* (H0)	A 97007-003	02
Jackpost Assembly, Standard	A 97009-001	01
Jackpost Assembly, Extended** (S2)	A 97009-002	01
Jackpost Assembly, Short** (R2)	A 97009-003	01

*FOR ALL TYPES EXCEPT HORIZONTAL SURFACE MOUNT (H0). OVERALL LENGTH FOR STANDARD H0 JACKSCREW IS .485 [12.32] MAX.
**FOR ALL TYPES EXCEPT S2 AND R2. OVERALL LENGTH FOR STANDARD S2 JACKPOST IS .560 [14.22] MAX AND .385 [9.78] MAX FOR R2.

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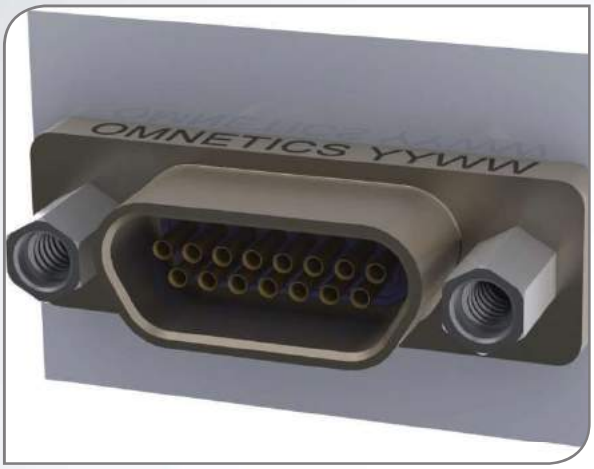
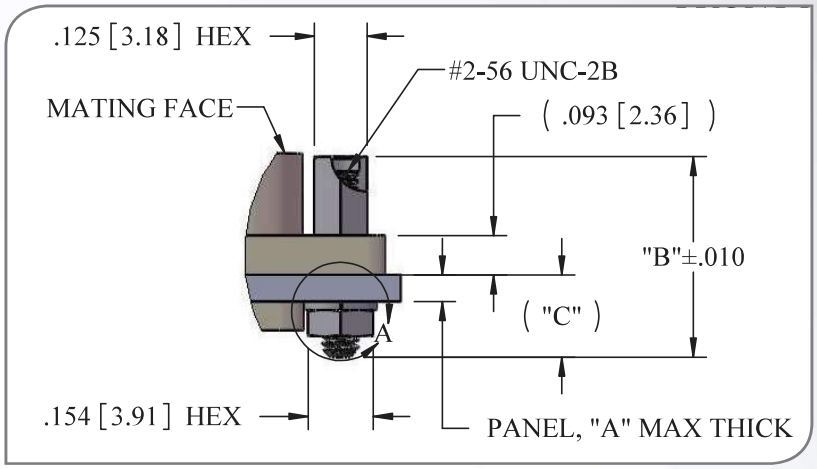
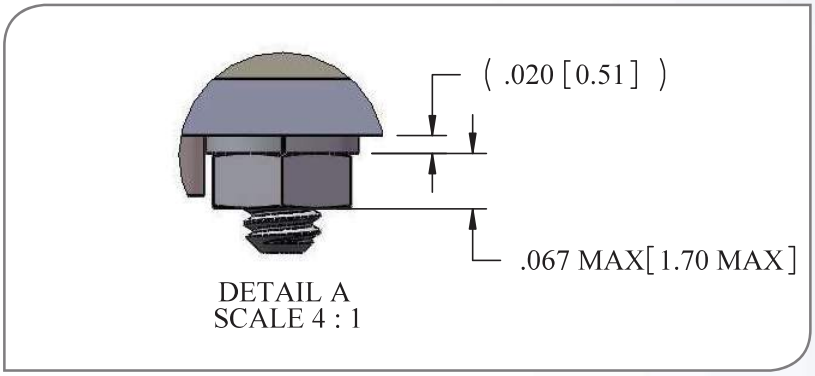
Panel Mount Harware Selection



FRONT MOUNT

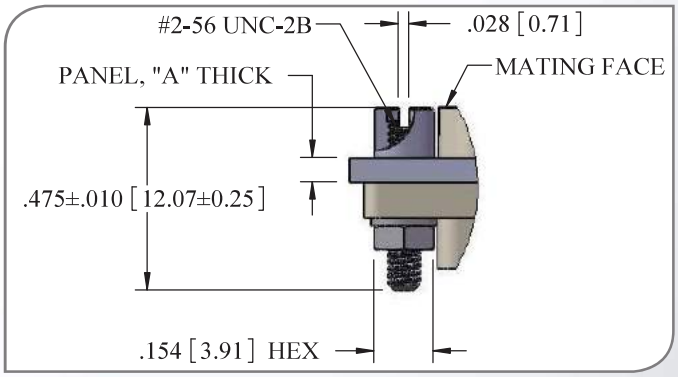
EACH KIT INCLUDES TWO JACKPOSTS, WASHERS, AND NUTS. FOR USE WITH REGULAR WIRED OR SOLDERCUP MICRO-D CONNECTORS.





REAR MOUNT

English (IN)			Metric (mm)			Omnetics Part #
"A"	"B"	"C"	"A"	"B"	"C"	
.05	.475	.195	1.3	12.07	4.94	A 97006-001
.13	.550	.270	3.2	13.97	6.85	A 97006-002



English (IN)	Metric (mm)	Omnetics Part #
"A"	"A"	
.031	0.79	A 97006-101
.063	1.60	A 97006-102
.094	2.39	A 97006-103

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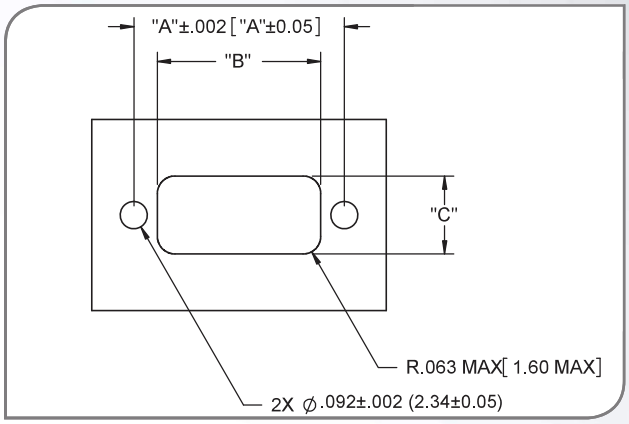
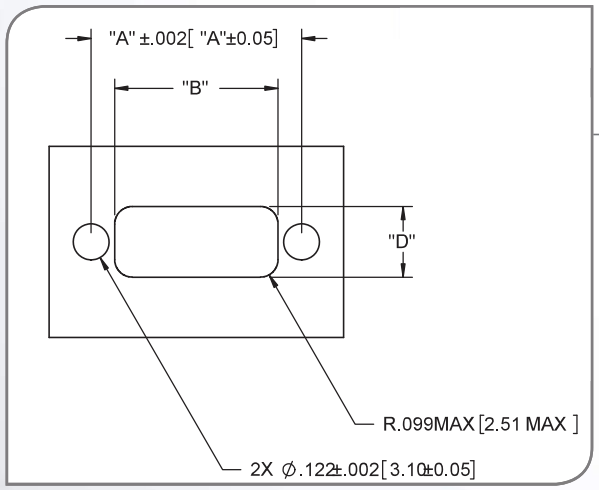
Panel Mount Cut Out

FRONT MOUNTED



Contacts	English (IN)				Metric (mm)		
"n"	Rows	"A"	"B"	"C"	"A"	"B"	"C"
9	2	.565	.405	.275	14.35	10.29	6.99
15	2	.715	.555	.275	18.16	14.10	6.99
21	2	.865	.705	.275	21.97	17.91	6.99
25	2	.965	.805	.275	24.51	20.45	6.99
31	2	1.115	.955	.275	28.32	24.26	6.99
37	2	1.265	1.105	.275	32.13	28.07	6.99
51	2	1.615	1.455	.275	41.02	36.96	6.99
51	3	1.215	1.055	.315	30.86	26.80	8.00

REAR MOUNTED



Contacts	English (IN)				Metric (mm)		
"n"	Rows	"A"	"B"	"D"	"A"	"B"	"D"
9	2	.565	.405	.255	14.35	10.29	6.48
15	2	.715	.555	.255	18.16	14.10	6.48
21	2	.865	.705	.255	21.97	17.91	6.48
25	2	.965	.805	.255	24.51	20.45	6.48
31	2	1.115	.955	.255	28.32	24.26	6.48
37	2	1.265	1.105	.255	32.13	28.07	6.48
51	2	1.615	1.455	.255	41.02	36.96	6.48
51	3	1.215	1.055	.298	30.86	26.80	7.57

CAGE Code 61873

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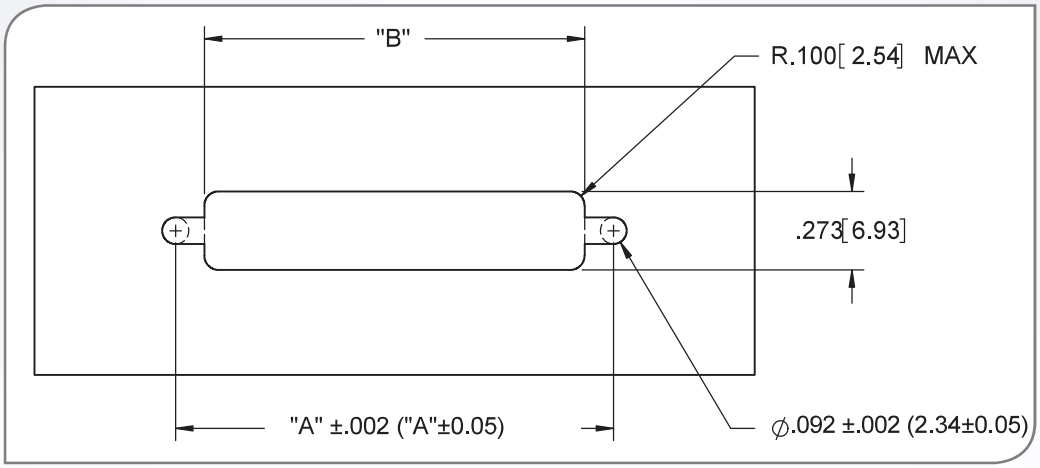
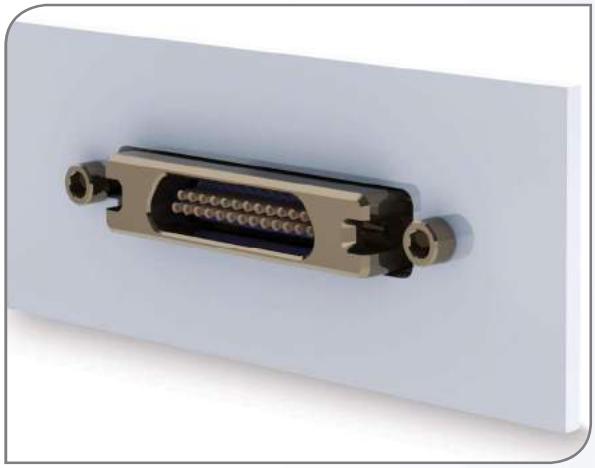
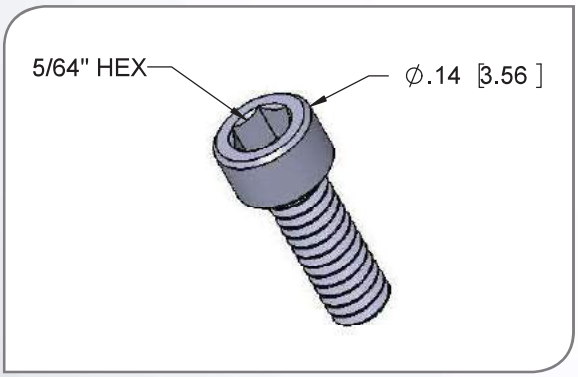
Latching Panel Mount Cut Out



Contacts	English (IN)		Metric (mm)	
"n"	Rows	"A"	"B"	"A"	"B"
9	2	1.120	.920	28.45	23.37
15	2	1.270	1.070	32.26	27.18
21	2	1.420	1.220	36.07	30.99
25	2	1.520	1.320	38.61	33.53
31	2	1.670	1.470	42.42	37.34
37	2	1.820	1.620	46.23	41.15
51	2	2.170	1.970	55.12	50.04



REAR MOUNTED (Latching Micro-D Shown)



Panel Thickness

English (IN)	Metric (mm)	Omnetics Part #
.010 - .045	0.25 - 1.14	D6292-156
.045 - .094	1.14 - 2.39	D6292-187

SCREWS SOLD INDIVIDUALLY, ORDER TWO PER CONNECTOR.

'No Tools Required' Adapter

Latching Micro-D Conversion Kit

Any Standard Micro-D connector with access to the back of the connector flange can be converted to a Latching Micro-D. With Omnetics' rugged latching systems, the need for tools is eliminated without compromising the performance expected from a Micro-D connector.

Contacts		Omnetics Part No.
"n"	Rows	
9	2	A99018-009
15	2	A99018-015
21	2	A99018-021
25	2	A99018-025
31	2	A99018-031
37	2	A99018-037
51	2	A99018-051

*Patent Pending

Visit Omnetics' website for further technical or contact information at www.omnetics.com

CAGE Code 61873

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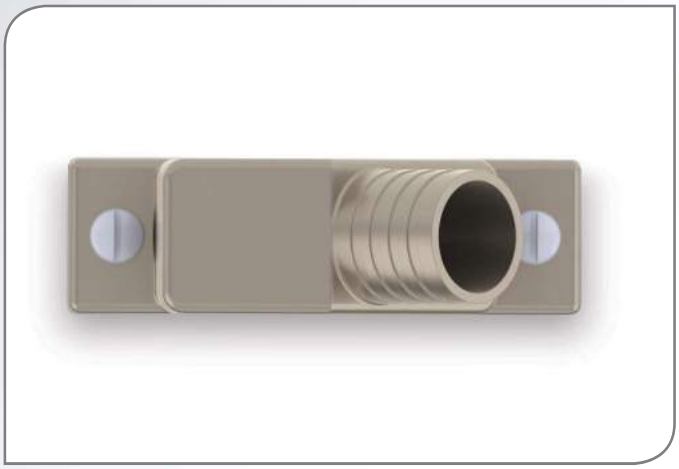
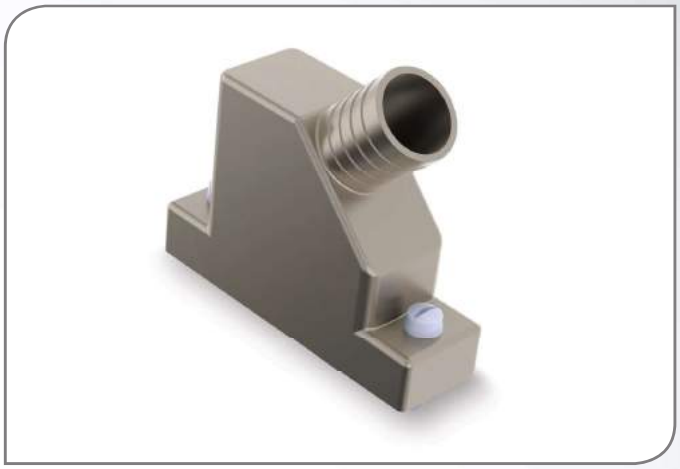
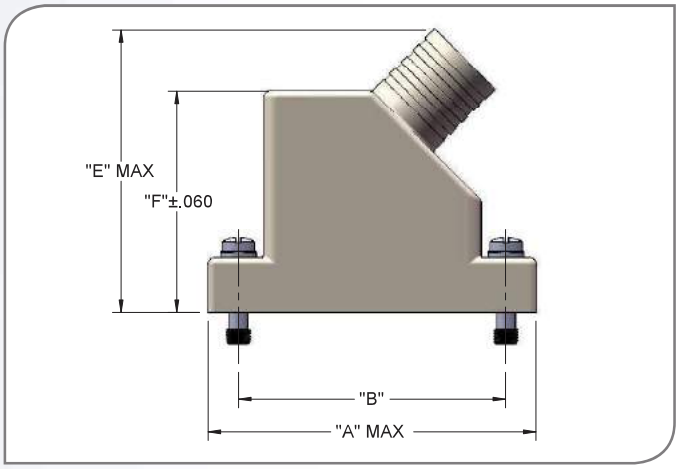
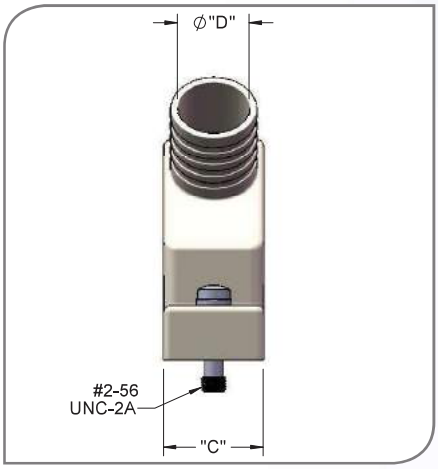
45 Degree Round Entry, Micro-D Backshell







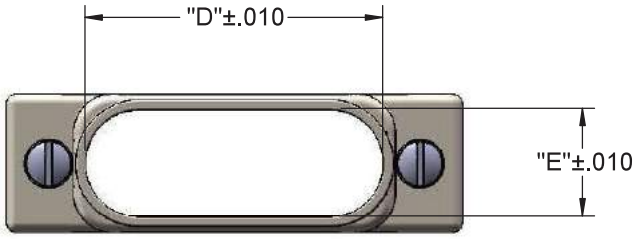


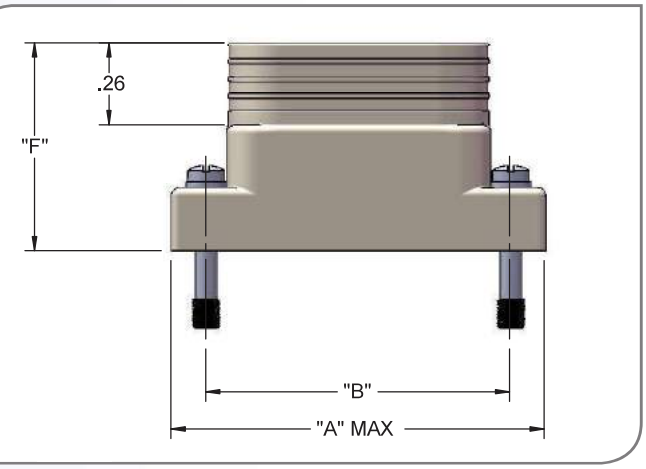
NOTE:
BACKSHELL MATERIAL: ALUMINUM ALLOY
FINISH: .0007/.0010 ELECTROLESS NICKEL PER SAE AMS-2404 CLASS 3 OR 4 GRADE B
HARDWARE: PASSIVATED STAINLESS STEEL, E-CLIPS (NOT SHOWN).

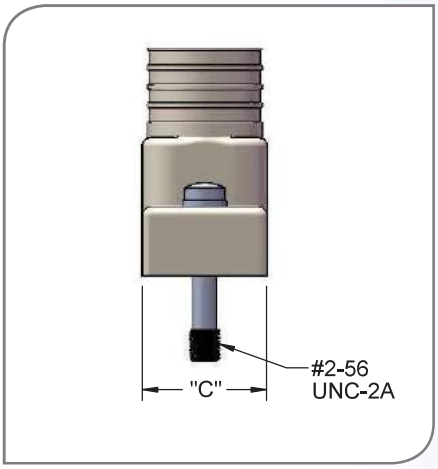
EACH KIT INCLUDES:
BACKSHELL, TWO SCREWS AND TWO RETAINING CLIPS. ORDER ONE KIT PER CONNECTOR

	Contacts		English (IN)						Metric (mm)					
Omnetics Part #	"n"	Rows	"A"	"B"	"C"	"D"	"E"	"F"	"A"	"B"	"C"	"D"	"E"	"F"
A97000-009	9	2	.785	.565	.340	.160	.875	.650	19.94	14.35	8.64	4.06	22.23	16.51
A97000-015	15	2	.935	.715	.340	.190	.925	.700	23.75	18.16	8.64	4.83	23.50	17.78
A97000-021	21	2	1.085	.865	.340	.220	.975	.735	27.56	21.97	8.64	5.59	24.77	18.67
A97000-025	25	2	1.185	.965	.360	.260	1.025	.800	30.10	24.51	9.14	6.60	26.04	20.32
A97000-031	31	2	1.335	1.115	.360	.275	1.065	.860	33.91	28.32	9.14	6.99	27.05	21.84
A97000-037	37	2	1.485	1.265	.360	.285	1.105	.925	37.72	32.13	9.14	7.24	28.07	23.50
A97000-513	51	3	1.435	1.215	.413	.350	1.187	.975	36.45	41.02	10.49	8.89	30.15	24.77

Straight Oval Entry, Micro-D Backshell





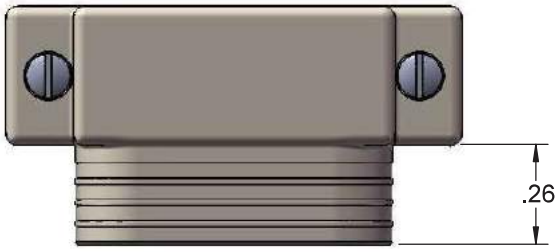


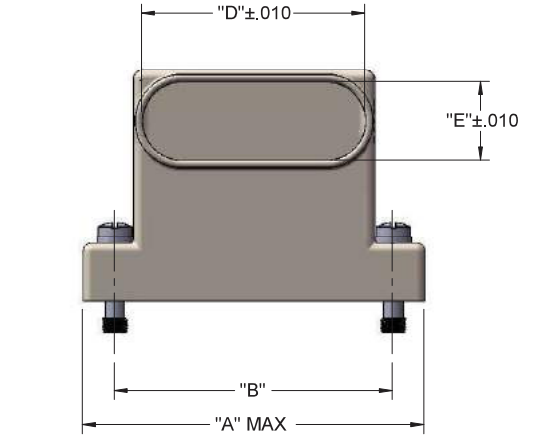
NOTE:
BACKSHELL MATERIAL: ALUMINUM ALLOY
FINISH: .0007/.0010 ELECTROLESS NICKEL PER SAE AMS-2404 CLASS 3 OR 4 GRADE B
HARDWARE: PASSIVATED STAINLESS STEEL, E-CLIPS (NOT SHOWN).

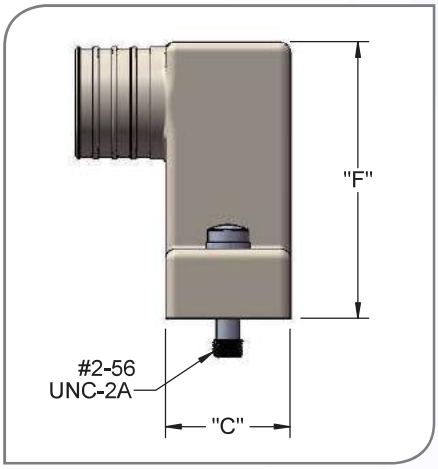
EACH KIT INCLUDES:
BACKSHELL, TWO SCREWS AND TWO RETAINING CLIPS. ORDER ONE KIT PER CONNECTOR

Contacts			English (IN)						Metric (mm)					
Omnetics Part #	"n"	Rows	"A"	"B"	"C"	"D"	"E"	"F"	"A"	"B"	"C"	"D"	"E"	"F"
A97001-009	9	2	.785	.565	.340	.375	.273	.660	19.94	14.35	8.64	9.53	6.93	16.76
A97001-015	15	2	.935	.715	.340	.525	.273	.660	23.75	18.16	8.64	13.34	6.93	16.76
A97001-021	21	2	1.085	.865	.340	.675	.273	.660	27.56	21.97	8.64	17.15	6.93	16.76
A97001-025	25	2	1.185	.965	.360	.775	.273	.660	30.10	24.51	9.14	19.69	6.93	16.76
A97001-031	31	2	1.335	1.115	.360	.925	.273	.660	33.91	28.32	9.14	23.50	6.93	16.76
A97001-037	37	2	1.485	1.265	.360	1.075	.273	.660	37.72	32.13	9.14	27.31	6.93	16.76
A97001-513	51	3	1.435	1.215	.380	1.025	.313	.880	36.45	30.86	10.49	26.04	7.95	22.35

90 Degree Oval Entry, Micro-D Backshell







NOTE:
BACKSHELL MATERIAL: ALUMINUM ALLOY
FINISH: .0007/.0010 ELECTROLESS NICKEL PER SAE AMS-2404 CLASS 3 OR 4 GRADE B
HARDWARE: PASSIVATED STAINLESS STEEL, E-CLIPS (NOT SHOWN).

EACH KIT INCLUDES:
BACKSHELL, TWO SCREWS AND TWO RETAINING CLIPS. ORDER ONE KIT PER CONNECTOR

Contacts		English (IN)						Metric (mm)					
Omnetics Part #	"n"	Rows	"A"	"B"	"C"	"D"	"E"	"F"	"A"	"B"	"C"	"D"	"E"	"F"
A97002-009	9	2	.785	.565	.340	.375	.273	.80	19.94	14.35	8.64	9.53	6.93	20.32
A97002-015	15	2	.935	.715	.340	.525	.273	.80	23.75	18.16	8.64	13.34	6.93	20.32
A97002-021	21	2	1.085	.865	.340	.675	.273	.80	27.56	21.97	8.64	17.15	6.93	20.32
A97002-025	25	2	1.185	.965	.360	.775	.273	.80	30.10	24.51	9.14	19.69	6.93	20.32
A97002-031	31	2	1.335	1.115	.360	.925	.273	.80	33.91	28.32	9.14	23.50	6.93	20.32
A97002-037	37	2	1.485	1.265	.360	1.075	.273	.80	37.72	32.13	9.14	27.31	6.93	20.32
A97002-513	51	3	1.435	1.215	.400	1.025	.313	1.00	36.45	30.86	10.16	26.04	7.95	25.40

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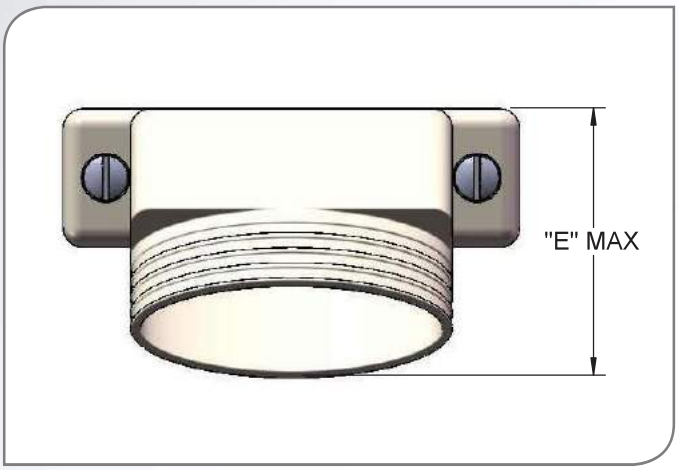
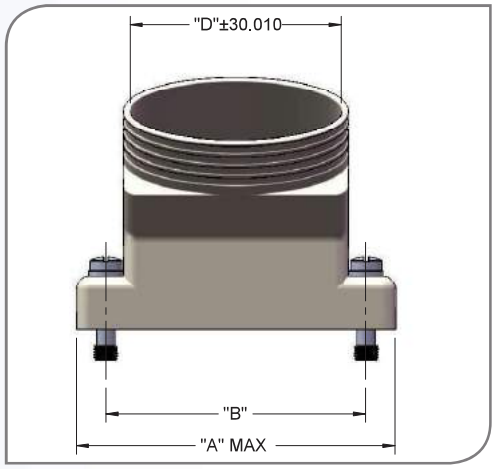
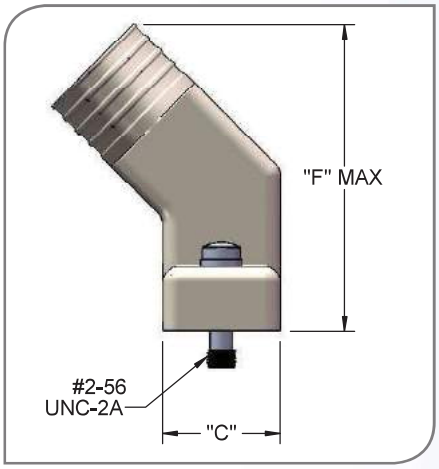
45 Degree Elliptical Entry, Micro-D Backshell







NOTE:
BACKSHELL MATERIAL: ALUMINUM ALLOY
FINISH: .0007/.0010 ELECTROLESS NICKEL PER SAE AMS-2404 CLASS 3 OR 4 GRADE B
HARDWARE: PASSIVATED STAINLESS STEEL, E-CLIPS (NOT SHOWN).

EACH KIT INCLUDES: BACKSHELL, TWO SCREWS AND TWO RETAINING CLIPS. ORDER ONE KIT PER CONNECTOR

Contacts			English (IN)						Metric (mm)					
Omnetics Part #	"n"	Rows	"A"	"B"	"C"	"D"	"E"	"F"	"A"	"B"	"C"	"D"	"E"	"F"
A97003-009	9	2	.785	.565	.340	.344	.673	.851	19.94	14.35	8.64	8.74	17.09	21.62
A97003-015	15	2	.935	.715	.340	.494	.673	.876	23.75	18.16	8.64	12.55	17.09	22.25
A97003-021	21	2	1.085	.865	.340	.644	.673	.901	27.56	21.97	8.64	16.36	17.09	22.89
A97003-025	25	2	1.185	.965	.360	.744	.700	.943	30.10	24.51	9.14	18.19	17.78	23.95
A97003-031	31	2	1.335	1.115	.360	.894	.700	.963	33.91	28.32	9.14	22.71	17.78	24.46
A97003-037	37	2	1.485	1.265	.360	.994	.700	.983	37.72	32.13	9.14	25.25	17.78	24.97
A97003-513	51	3	1.435	1.215	.400	1.044	.755	1.058	36.45	30.86	10.16	26.52	19.18	26.87

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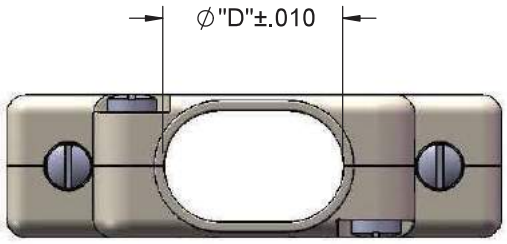
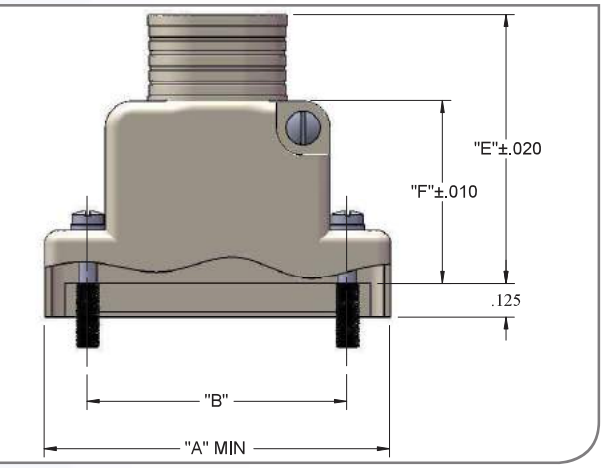
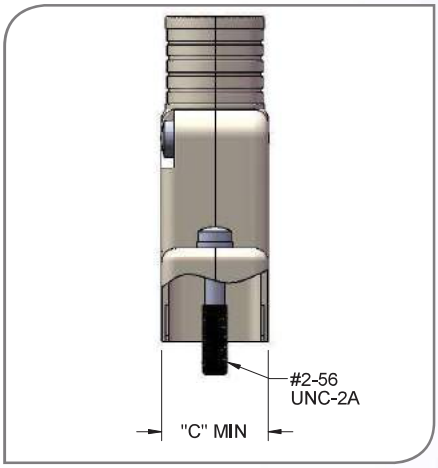
Straight Elliptical Entry, Split Micro-D Backshell







NOTE:
BACKSHELL MATERIAL: ALUMINUM ALLOY
FINISH: .0007/.0010 ELECTROLESS NICKEL PER SAE AMS-2404 CLASS 3 OR 4 GRADE B
HARDWARE: PASSIVATED STAINLESS STEEL, E-CLIPS (NOT SHOWN).

EACH KIT INCLUDES: BACKSHELL, TWO SCREWS AND TWO RETAINING CLIPS. ORDER ONE KIT PER CONNECTOR

Contacts		English (IN)						Metric (mm)					
Omnetics Part #	"n"	Rows	"A"	"B"	"C"	"D"	"E"	"F"	"A"	"B"	"C"	"D"	"E"	"F"
A97004-021	21	2	1.185	.865	.370	.368	.950	.630	30.10	21.97	9.40	9.35	24.13	16.00
A97004-025	25	2	1.285	.965	.370	.468	1.000	.680	32.64	24.51	9.40	11.89	25.40	17.27
A97004-031	31	2	1.435	1.115	.370	.618	1.040	.720	36.45	28.32	9.40	15.70	26.42	18.29
A97004-037	37	2	1.585	1.265	.370	.718	1.080	.760	40.26	32.13	9.40	18.24	27.43	19.30
A97004-513	51	3	1.535	1.215	.410	.768	1.160	.840	38.99	30.86	10.41	19.51	29.46	21.34

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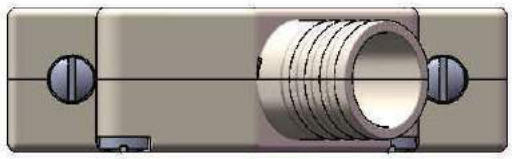
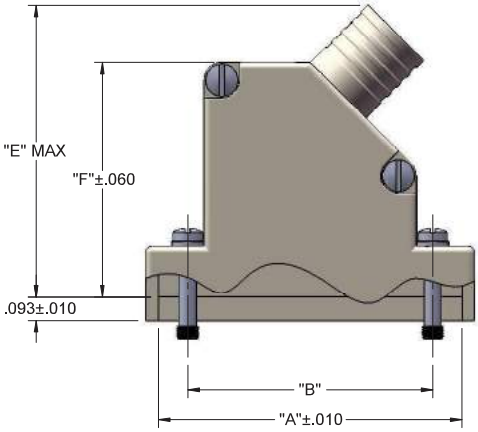
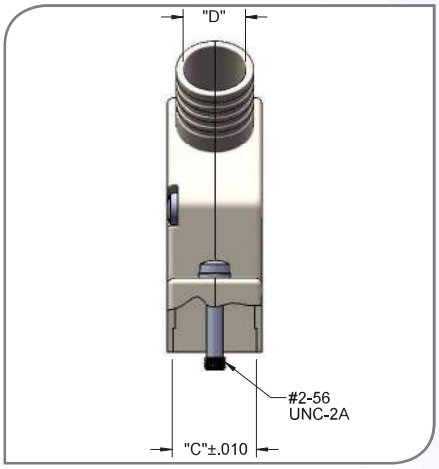
45 Degree Round Entry, Split Micro-D Backshell







NOTE:
BACKSHELL MATERIAL: ALUMINUM ALLOY
FINISH: .0007/.0010 ELECTROLESS NICKEL PER SAE AMS-2404 CLASS 3 OR 4 GRADE B
HARDWARE: PASSIVATED STAINLESS STEEL, E-CLIPS (NOT SHOWN).

EACH KIT INCLUDES: TWO BACKSHELL HALVES, TWO ASSEMBLY SCREWS, TWO JACKSCREWS AND TWO RETAINING CLIPS. ORDER ONE KIT PER CONNECTOR

Contacts		English (IN)						Metric (mm)					
Omnetics Part #	"n"	Rows	"A"	"B"	"C"	"D"	"E"	"F"	"A"	"B"	"C"	"D"	"E"	"F"
A97005-009	9	2	.796	.565	.318	.160	1.000	.775	20.22	14.35	8.08	4.06	25.40	19.69
A97005-015	15	2	.946	.715	.318	.190	1.050	.825	24.03	18.16	8.08	4.83	26.67	20.96
A97005-021	21	2	1.096	.865	.318	.220	1.100	.860	27.84	21.97	8.08	5.59	27.94	21.84
A97005-025	25	2	1.196	.965	.318	.260	1.150	.925	30.38	24.51	8.08	6.60	29.21	23.50
A97005-031	31	2	1.346	1.115	.318	.275	1.190	.985	34.19	28.32	8.08	6.99	30.23	25.02
A97005-037	37	2	1.496	1.265	.318	.285	1.230	1.050	38.00	32.13	8.08	7.24	31.24	26.67
A97005-513	51	3	1.446	1.215	.361	.350	1.312	1.100	36.73	30.86	9.17	8.89	33.32	27.94

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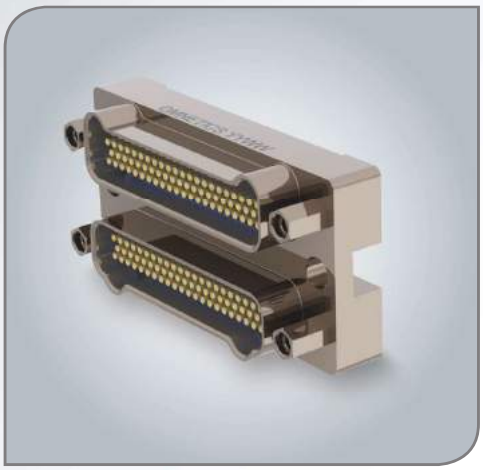

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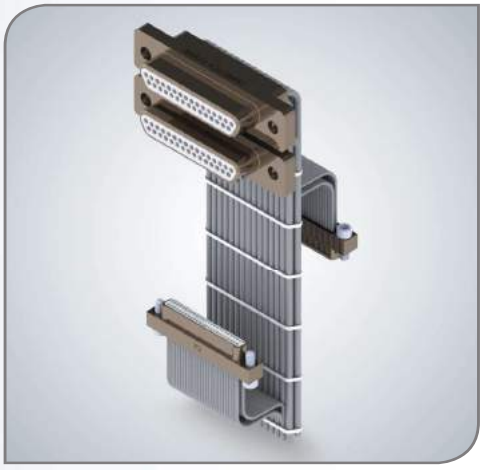

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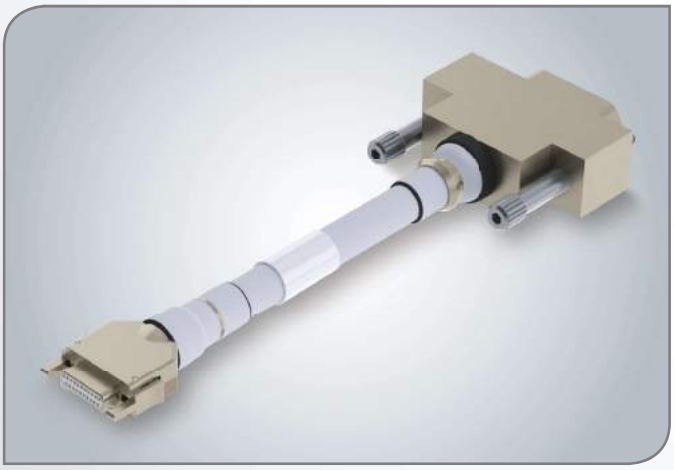

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