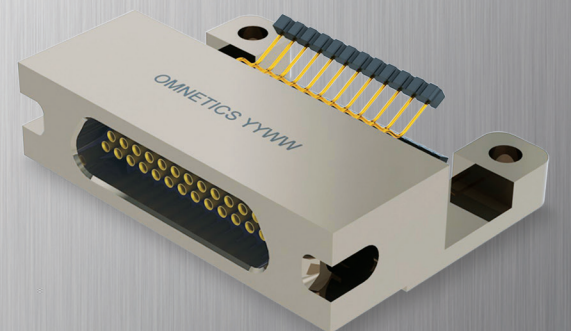
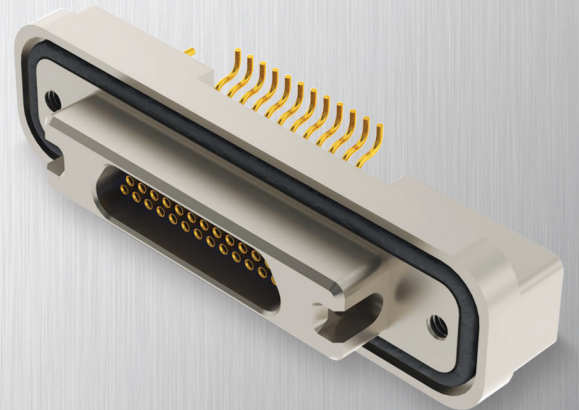
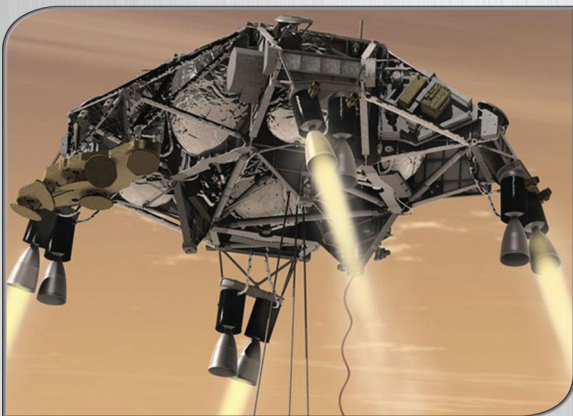


OMNETICS

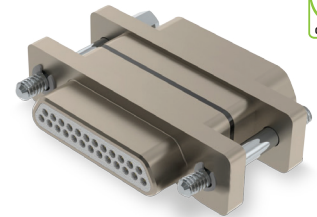
CONNECTOR CORPORATION



Micro-D Catalog

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



Micro-D



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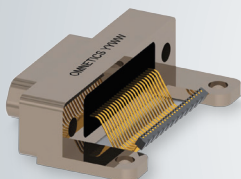
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Micro-D

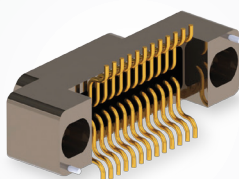
Picture Index

Micro-D

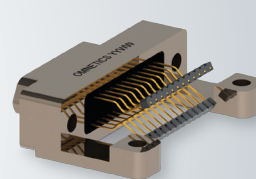
HORIZONTAL SMT
(H0)



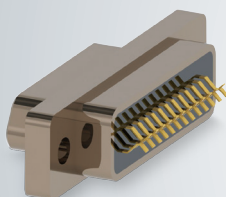
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(V0)



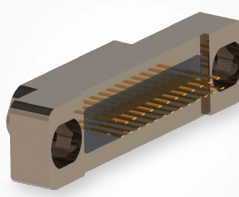
CARD EDGE SMT
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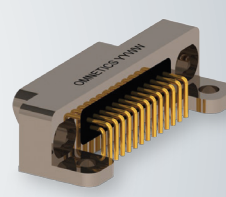
FLEX TAIL
(FF)



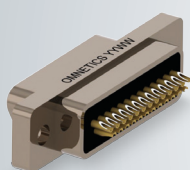
STRAIGHT THRU-HOLE
(S2)



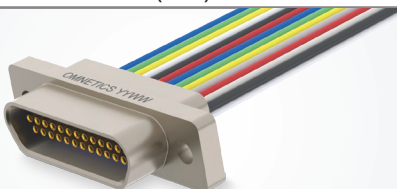
RIGHT ANGLE THRU-HOLE
(R2)



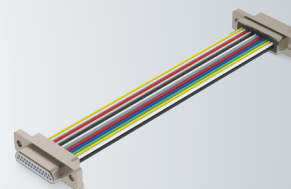
SOLDER CUP
(SS)



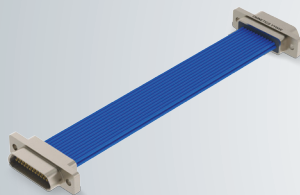
DISCRETE WIRE
(WD)



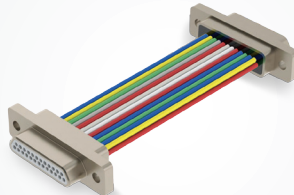
FEMALE TO MALE JUMPER
(W)



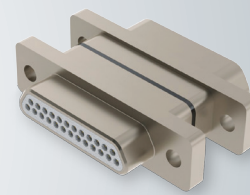
FEMALE TO FEMALE JUMPER
(X)



MALE TO MALE JUMPER
(Y)



CONNECTOR SAVER
(Z)

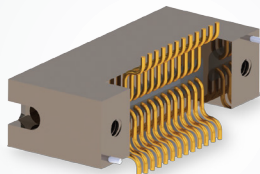


Micro-D Latching

LATCHING HORIZONTAL SMT
(H0)



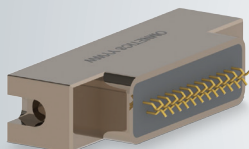
LATCHING VERTICAL SMT
(V0)



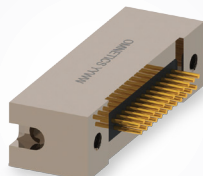
LATCHING CARD EDGE SMT
(C0)



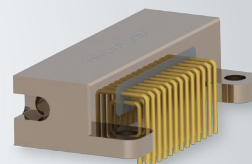
LATCHING FLEX TAIL
(FF)



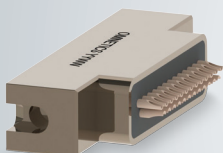
LATCHING STRAIGHT THRU-HOLE
(S2)



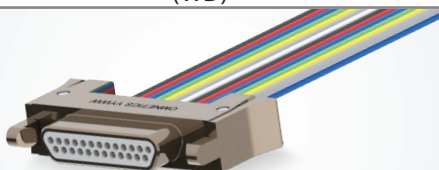
LATCHING RIGHT ANGLE THU-HOLE
(C0)



LATCHING SOLDER CUP
(SS)



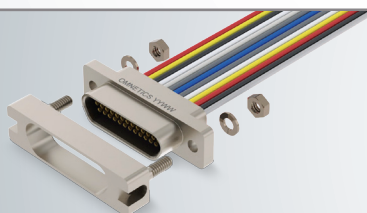
LATCHING DISCRETE WIRE
(WD)



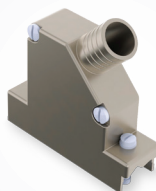
HARDWARE OPTIONS



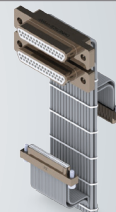
CONVERSION KIT



BACKSHELLS



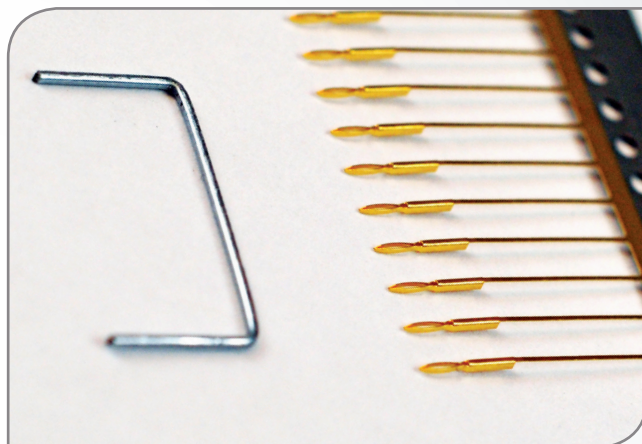
CUSTOM CONNECTORS



■ 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.



4

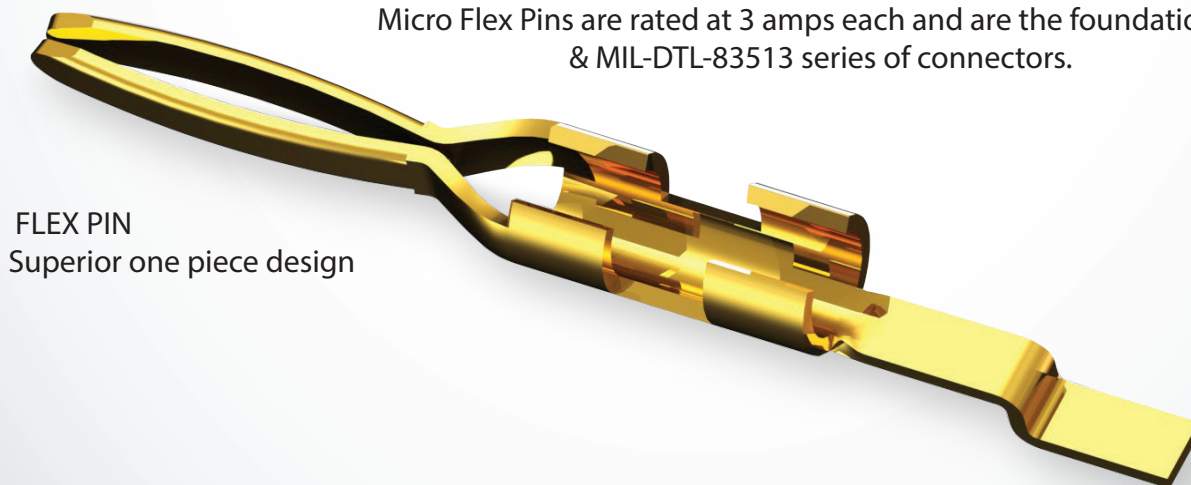
The Flex Pin contact is inter-mateable with all MIL-DTL-83513 sockets. Its rugged design easily passes the shock and vibration requirements of the military specification. In fact, independent tests have proven that the Flex Pin contact can even withstand the intense shock and vibration of the geophysical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

■ Micro-D and MIL-DTL-83513 Specifications

1. Scope: These specifications highlight some of the standard requirements of Omnetics' Micro-D style micro-miniature 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, class 1.27, 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.

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.

■ 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.

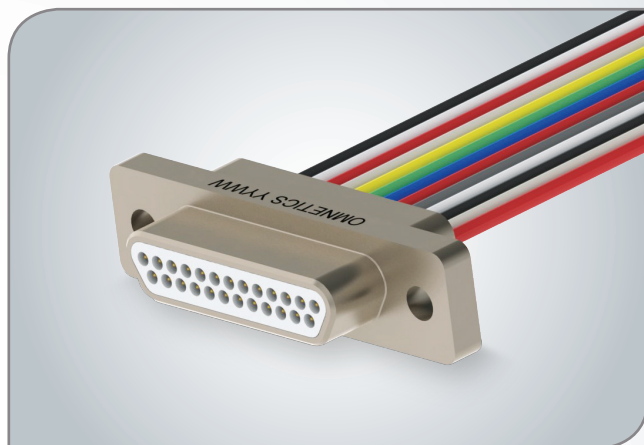
Micro-D

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 discontinuities > 1 microsecond
■ Vibration:	20 g's with no discontinuities > 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

Micro-D

MIL-DTL-83513 Micro-D

■ M83513/01 Solder Cup Male Micro-D Ordering Guide



Example:
MMDP/01-DN

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

■ M83513/02 Solder Cup Female Micro-D Ordering Guide



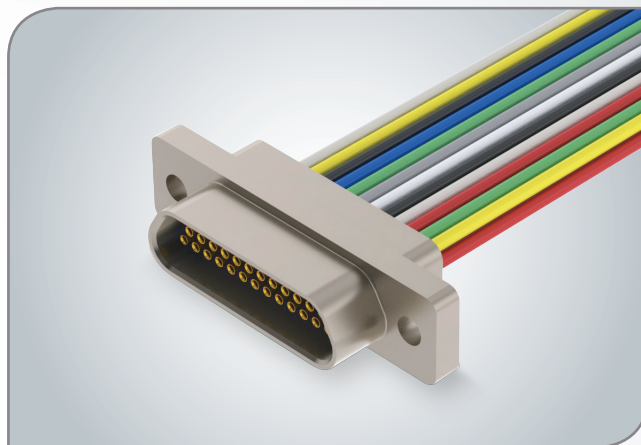
Example:
MMDS/02-DN

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

■ 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 discontinuities > 1 microsecond
■ Vibration:	20 g's with no discontinuities > 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

Micro-D

MIL-DTL-83513 Micro-D

■ M83513/03 Wired Male Micro-D Ordering Guide

Example:

MMDP/03-D03N



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

■ M83513/04 Solder Cup Female Micro-D Ordering Guide

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

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

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 discontinuities > 1 microsecond
- Vibration: _____ 20 g's with no discontinuities > 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

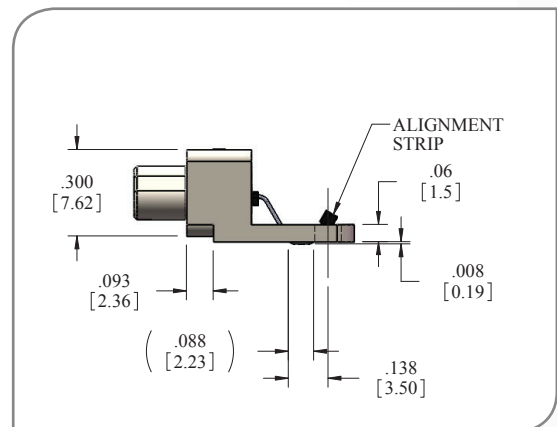
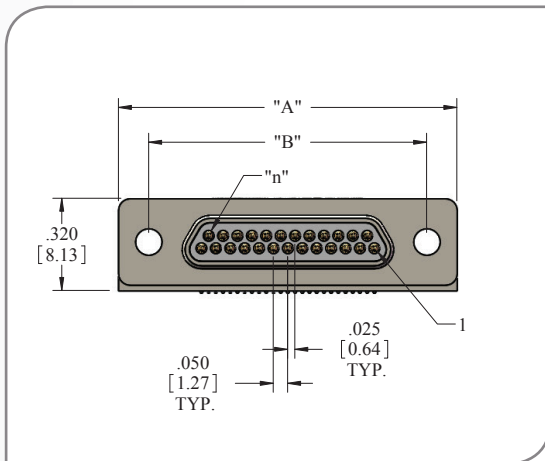
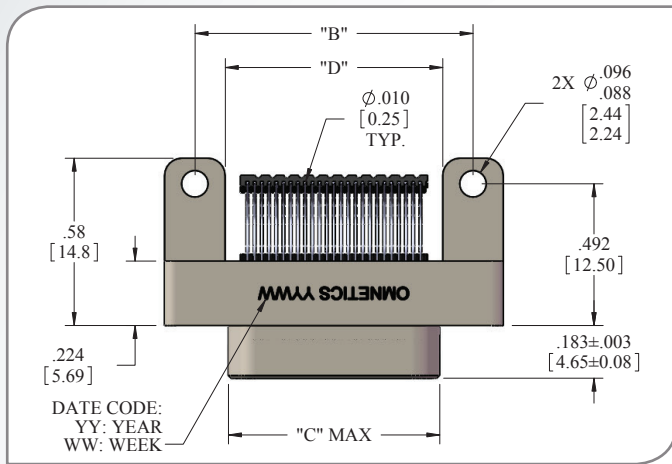
■ Shell Options

- 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

Micro-D

Standard Micro-D

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



■ Contacts

■ English (IN)

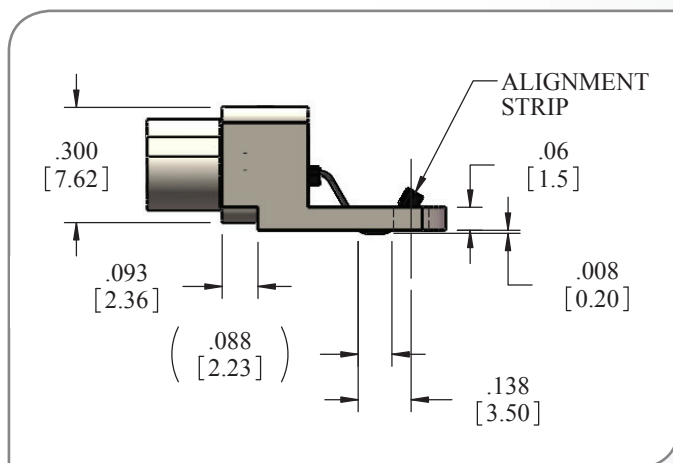
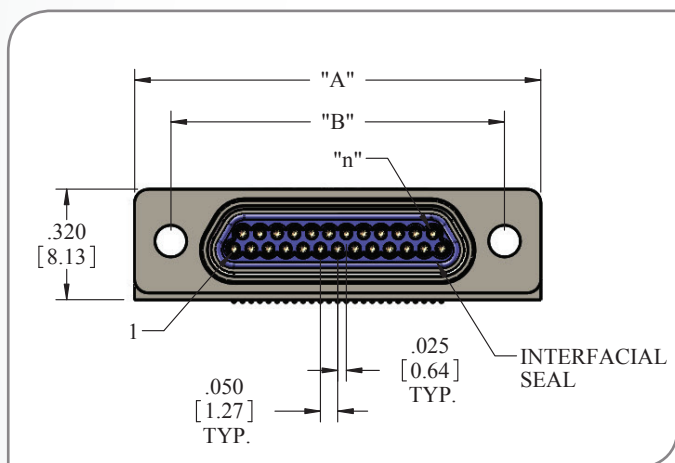
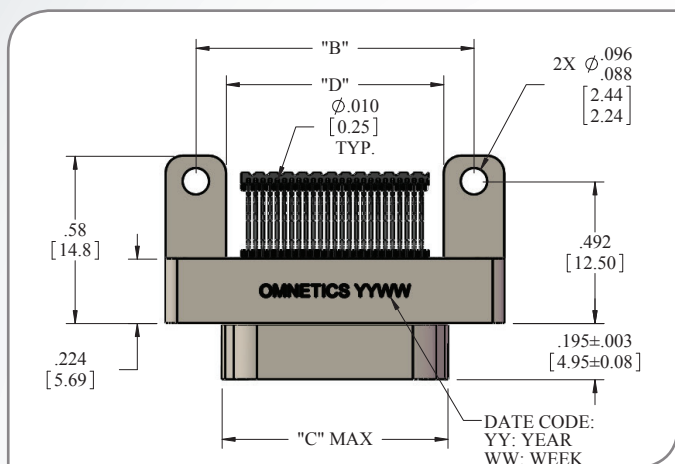
■ Metric (mm)

	"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

Micro-D

Standard Micro-D

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



■ Contacts

■ English (IN)

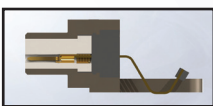
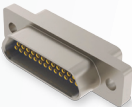
■ Metric (mm)

	"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

Micro-D

Standard Micro-D

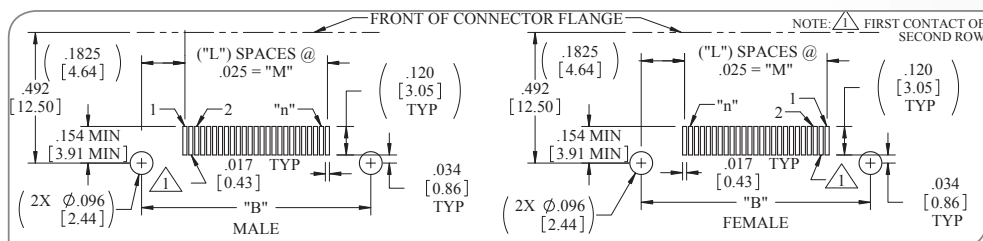
■ Metal Shell Micro-D Horizontal Surface Mount (TYPE H0)

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

Example



MMDP-025-N00-H0

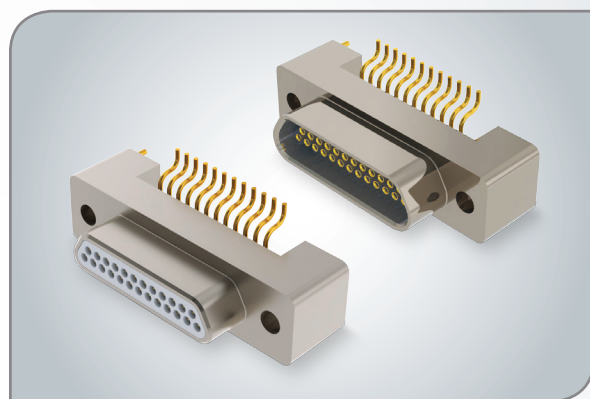


15

■ 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

■ 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 discontinuities > 1 microsecond
■ Vibration:	20 g's with no discontinuities > 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

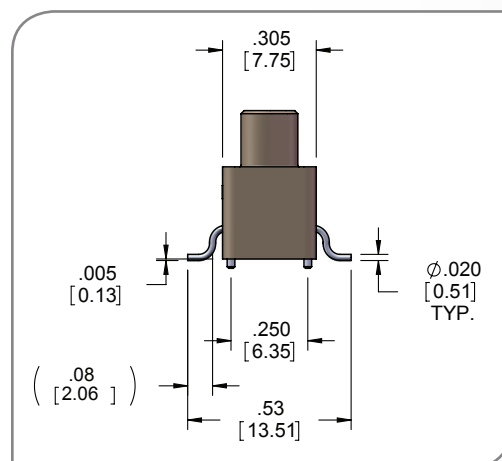
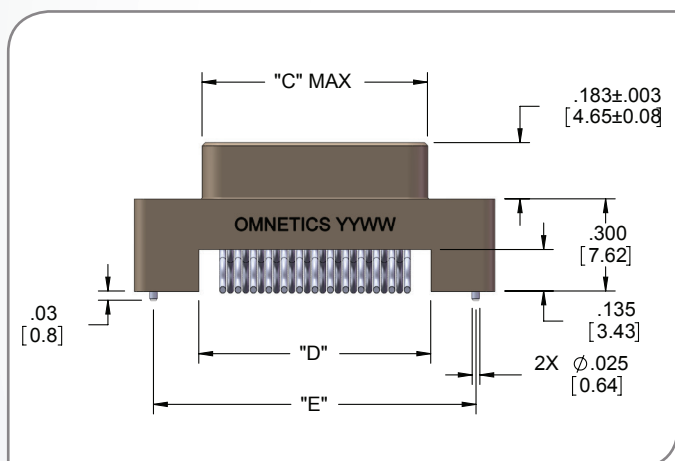
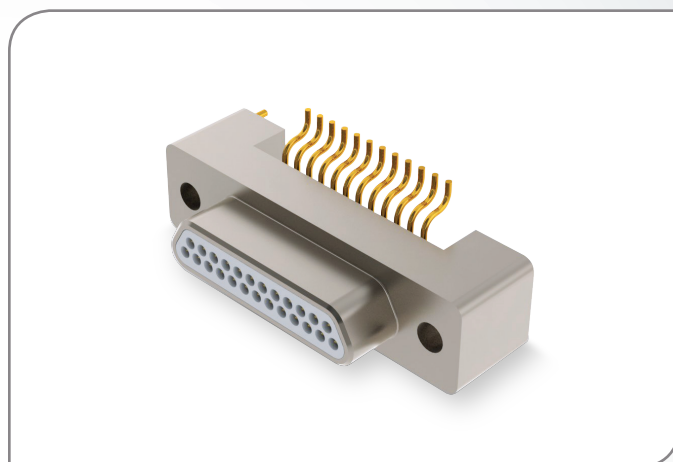
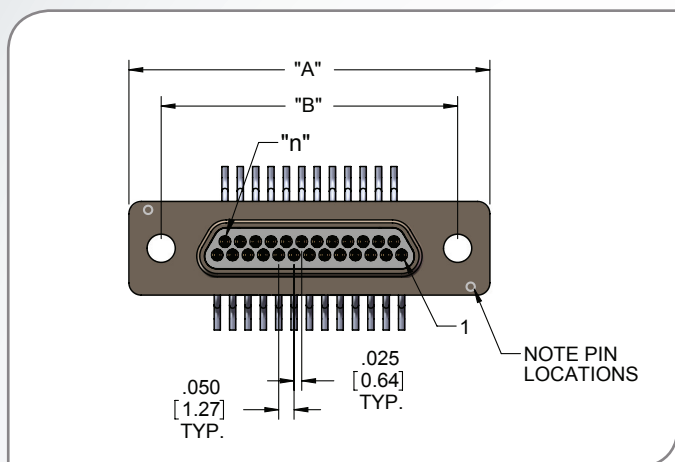
■ Shell Options

■ 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

Micro-D

Standard Micro-D

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



■ Contacts

■ English (IN)

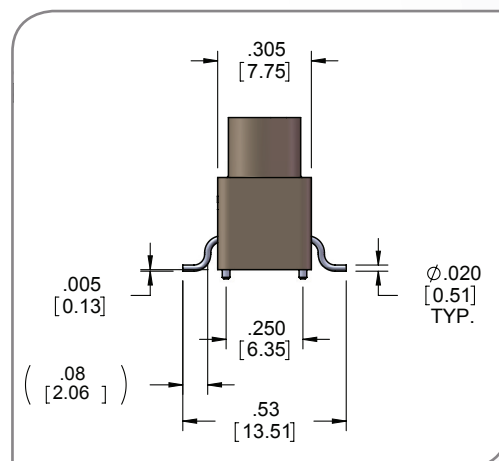
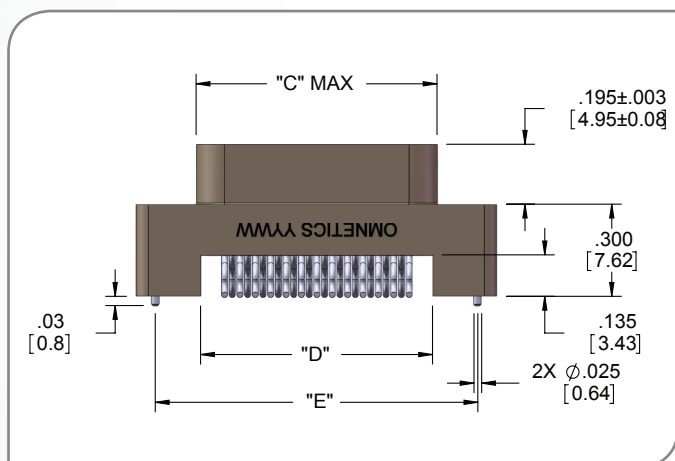
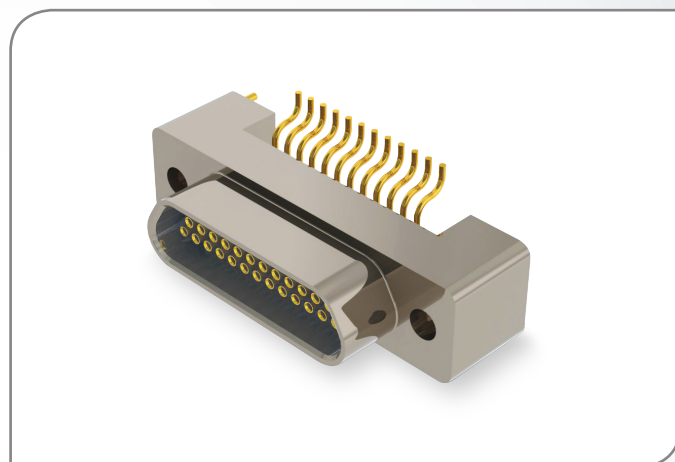
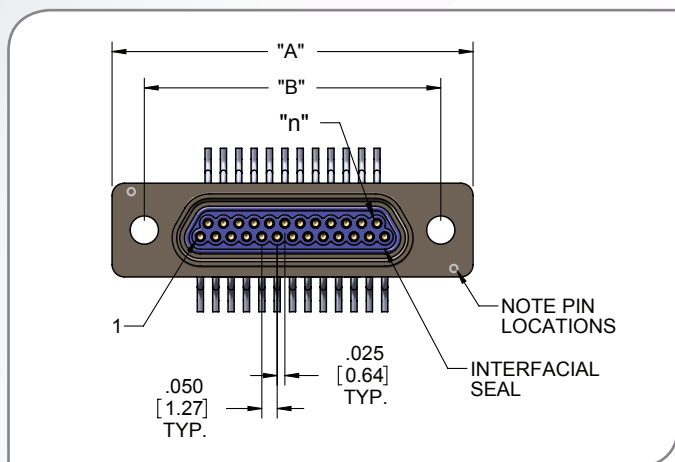
■ Metric (mm)

"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

Micro-D

Standard Micro-D

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



■ Contacts

■ English (IN)

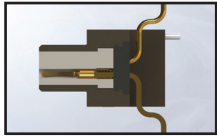
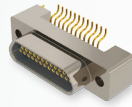
■ Metric (mm)

"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

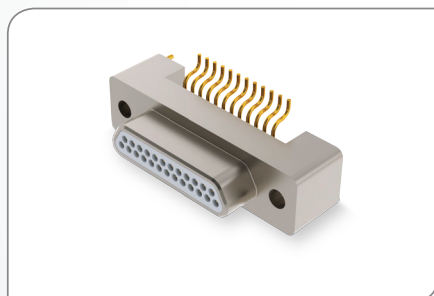
Micro-D

Standard Micro-D

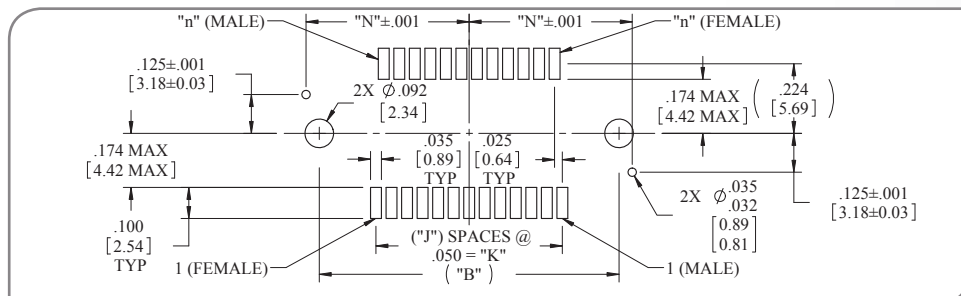
■ Metal Shell Micro-D Vertical Surface Mount (TYPE V0)

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

Example



MMDP-025-N00-V0-HT

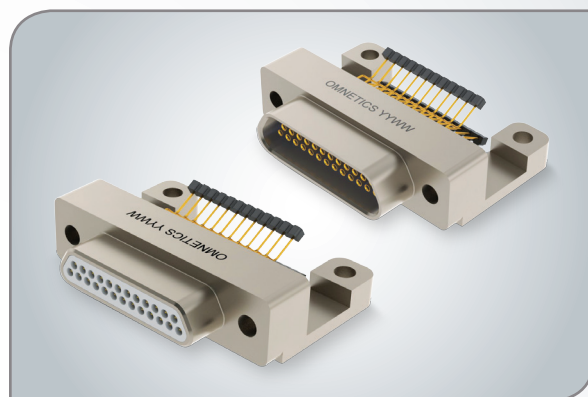


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■ Contacts		■ English (IN)				■ Metric (mm)				■ Standard	
"n"	Rows	"B"	"J"	"K"	"N"	"B"	"J"	"K"	"N"	FEMALE	MALE
9	2	.565	4	.200	.325	14.35	4	5.08	8.26	A99701-009	A98701-009
15	2	.715	7	.350	.400	18.16	7	8.89	10.16	A99701-015	A98701-015
21	2	.865	10	.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

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

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 discontinuities > 1 microsecond
■ Vibration:	20 g's with no discontinuities > 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

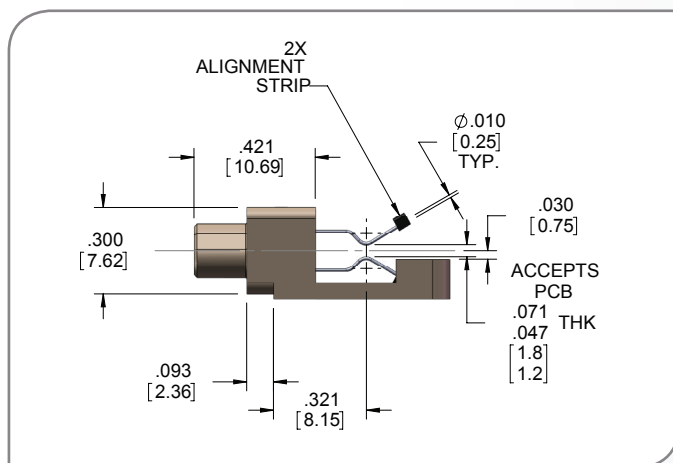
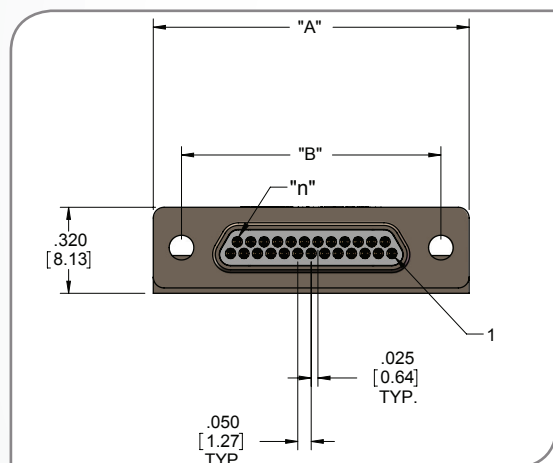
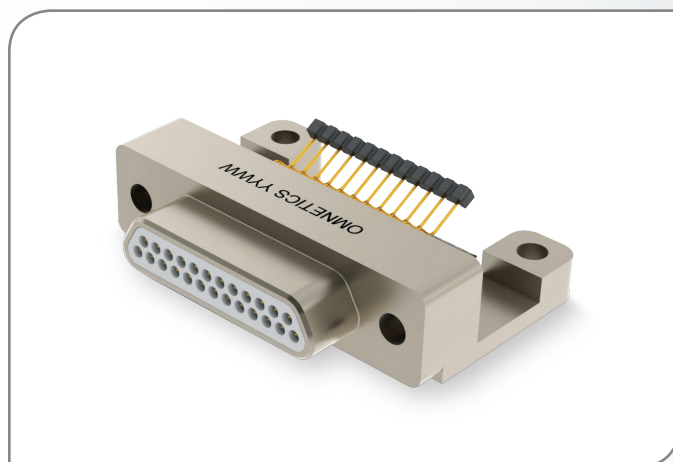
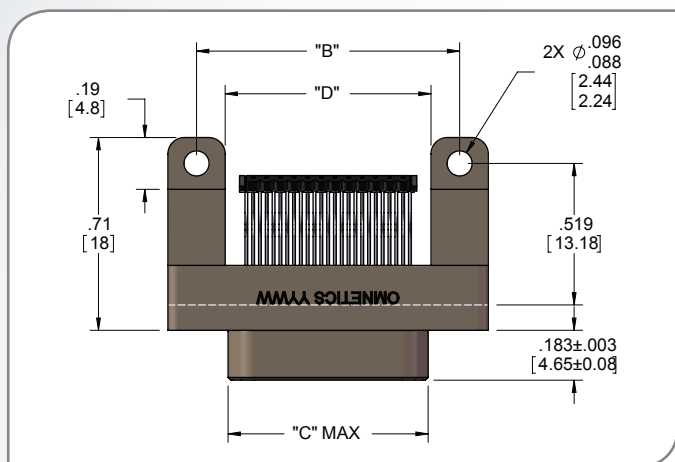
■ Shell Options

■ 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

Micro-D

Standard Micro-D

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



■ Contacts

■ English (IN)

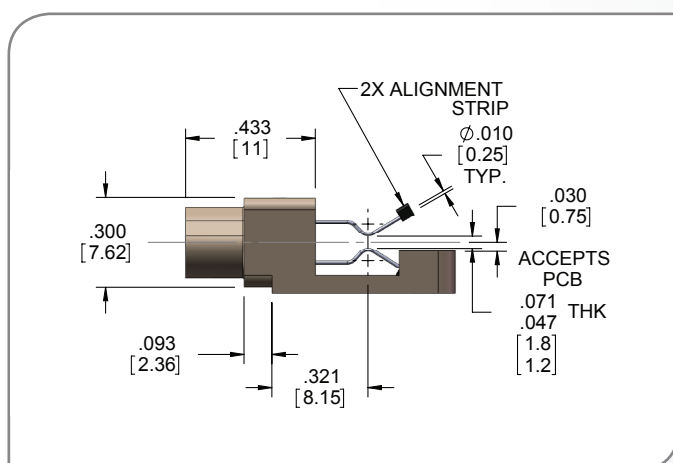
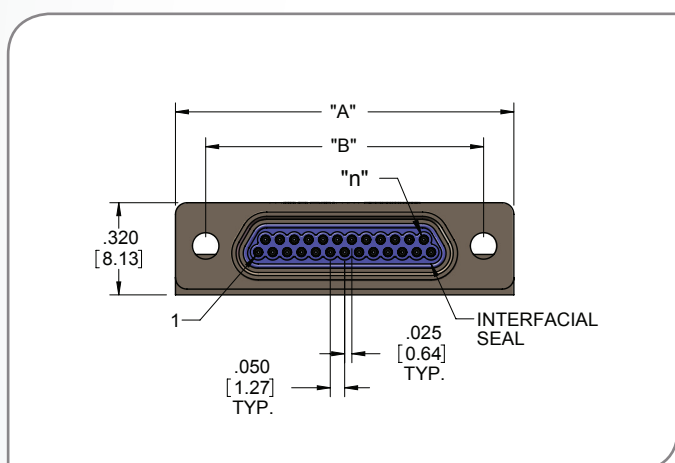
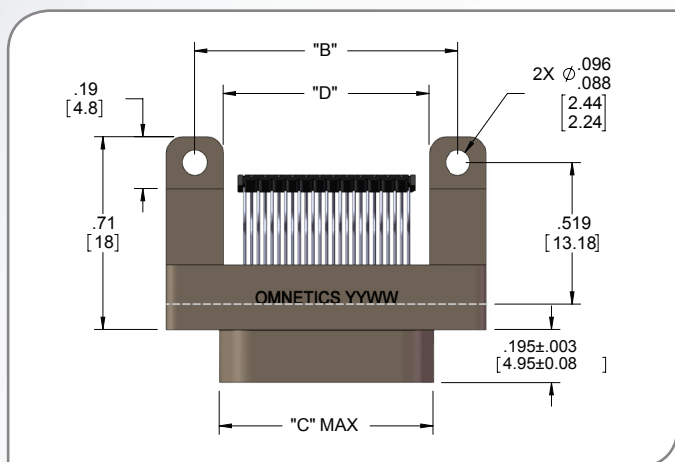
■ Metric (mm)

"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

Micro-D

Standard Micro-D

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



■ Contacts

■ English (IN)

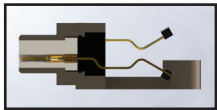
■ Metric (mm)

	"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

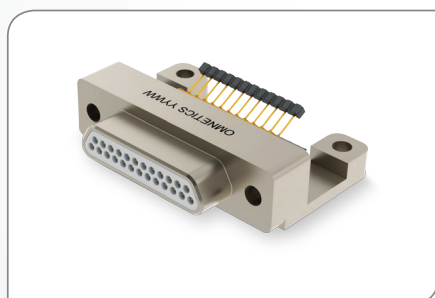
Micro-D

Standard Micro-D

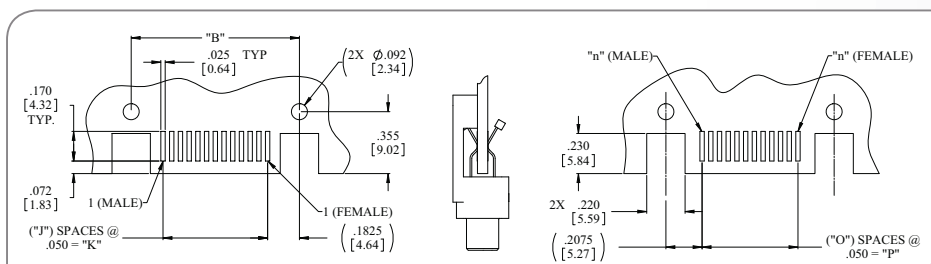
■ Metal Shell Micro-D Card Edge Surface Mount (TYPE C0)

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) 01 - FIXED JACK- POSTS (STD) 02 - JACKSCREWS, STD LENGTH, HEX HEAD (STD) 03 - JACKSCREWS, STD LENGTH, SLOTTED 04 - JACKSCREWS, LONG, HEX 05 - JAC SCREWS LONG, SLOTTED	C0 Card Edge Surface Mount 	HTE High Temp. Epoxy  RH RoHS COMPLIANT 
Female (S- Socket)	(Two row 512) Options: 001-051	 C Aluminum Shell, Cadmium Plated  B Aluminum Shell, Black Anodized  P Stainless Steel Shell, Passivated			

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

■ 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 discontinuities > 1 microsecond
■ Vibration:	20 g's with no discontinuities > 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

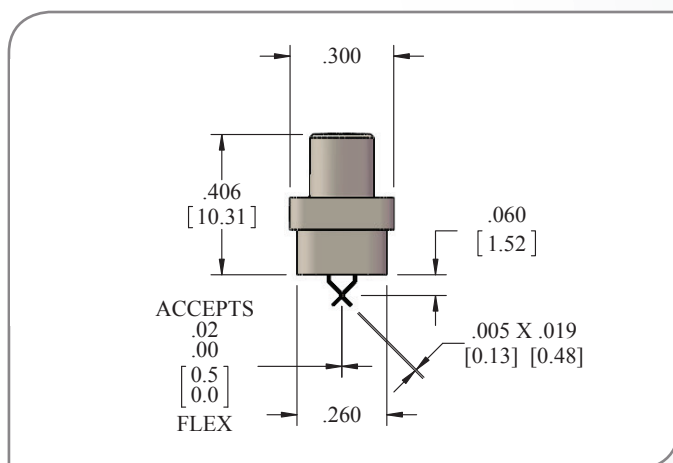
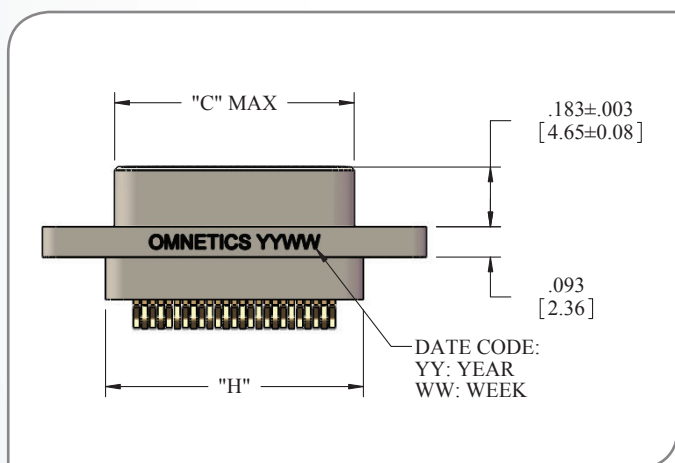
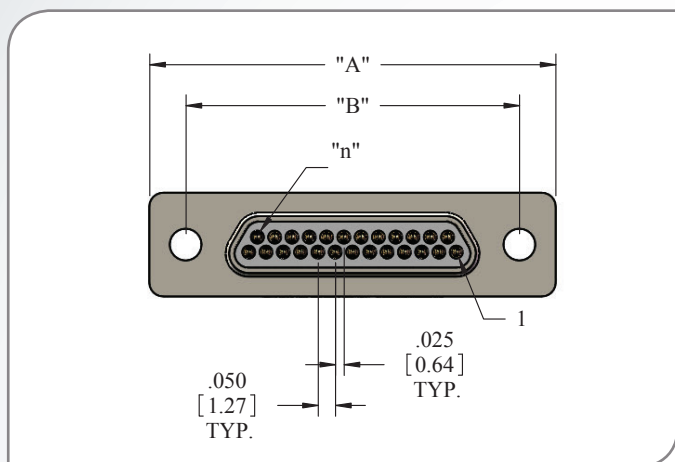
■ Shell Options

■ 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

Micro-D

Standard Micro-D

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



■ Contacts

■ English (IN)

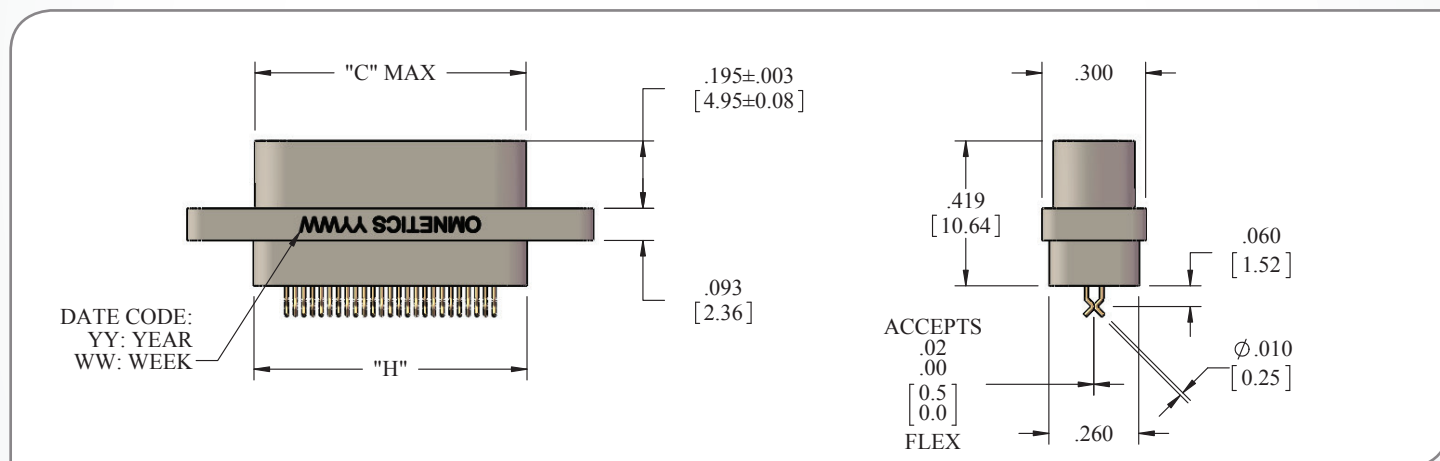
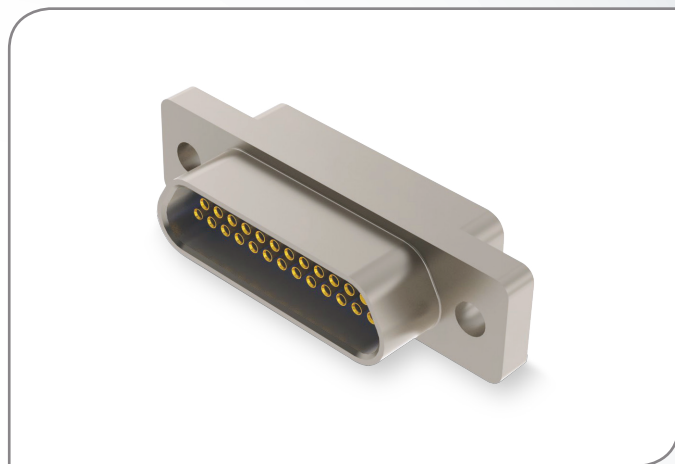
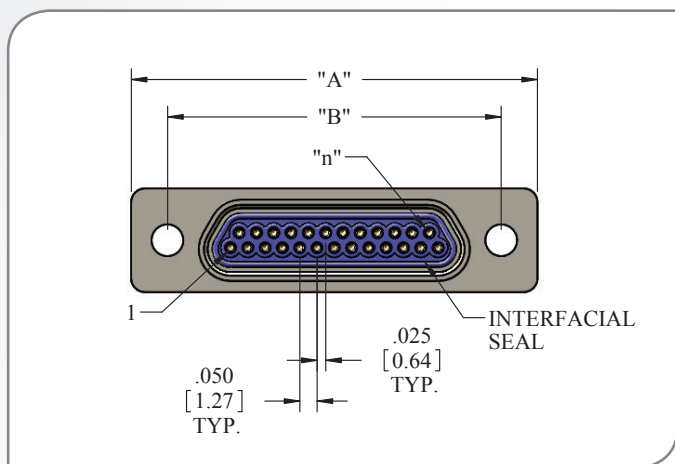
■ Metric (mm)

"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

Micro-D

Standard Micro-D

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



■ Contacts

■ English (IN)

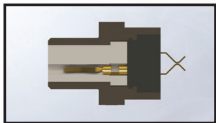
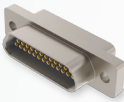
■ Metric (mm)

"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

Micro-D

Standard Micro-D

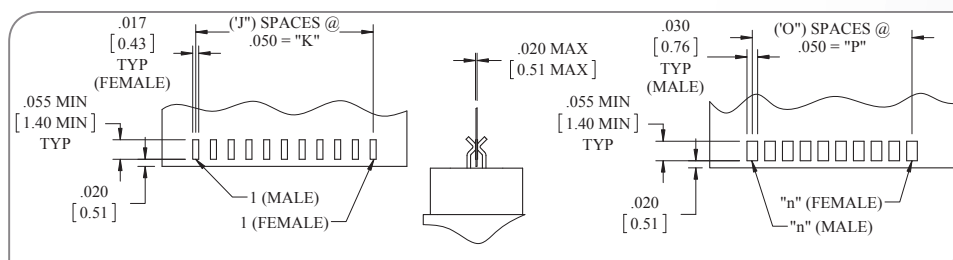
■ Metal Shell Micro-D Flex Tail (TYPE FF)

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

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

■ 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 -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 discontinuities > 1 microsecond
■ Vibration:	20 g's with no discontinuities > 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

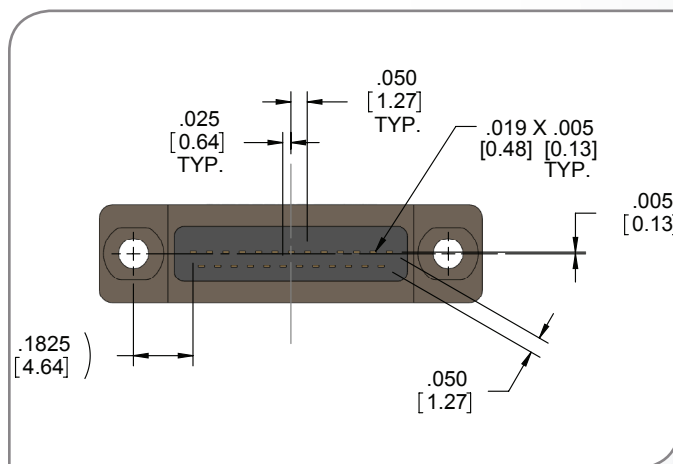
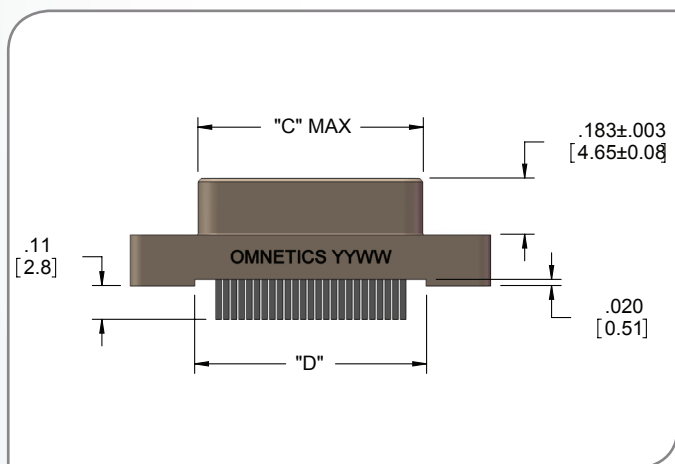
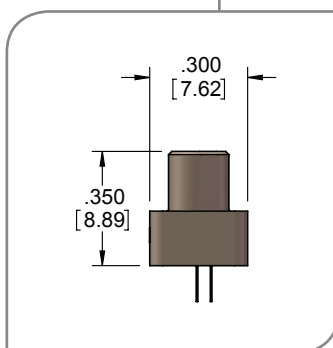
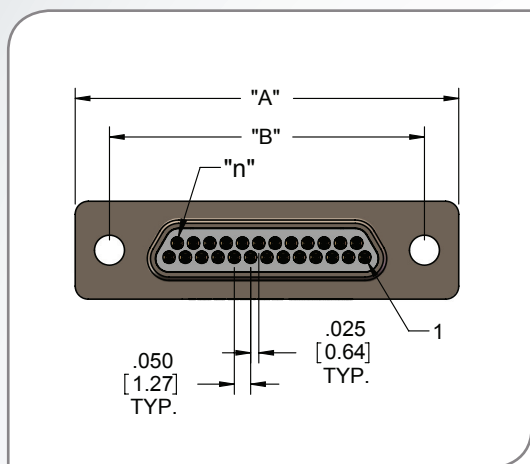
■ Shell Options

■ 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

Micro-D

Standard Micro-D

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



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■ Contacts

■ English (IN)

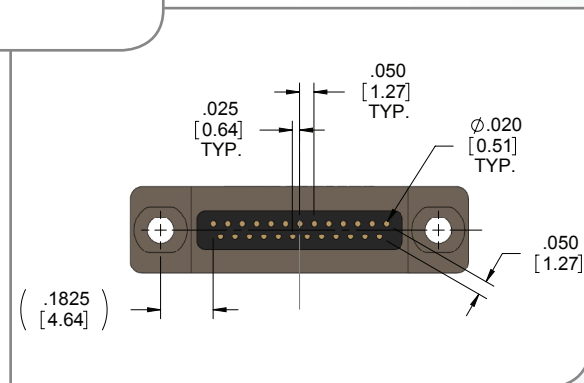
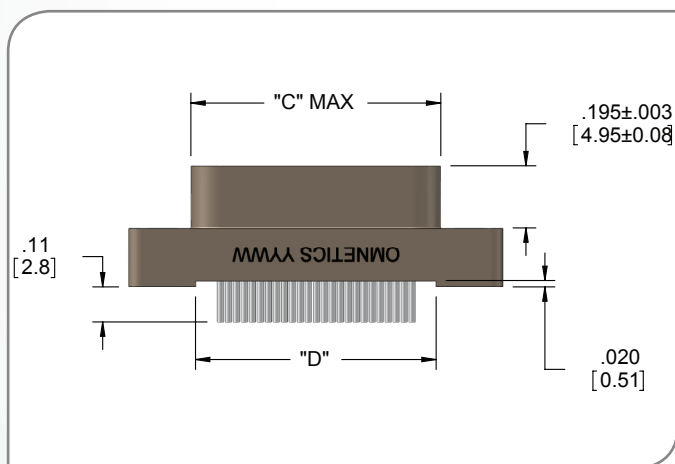
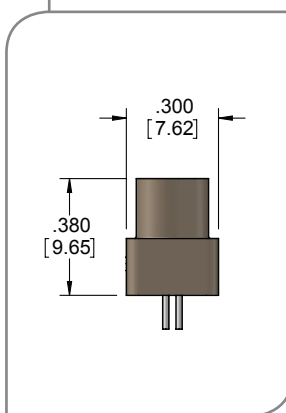
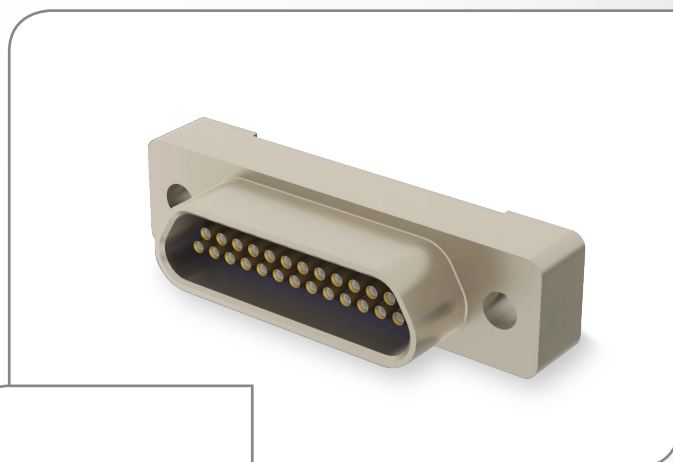
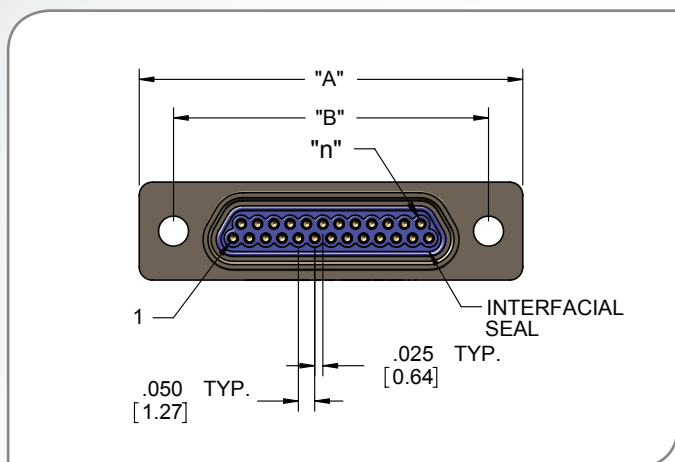
■ Metric (mm)

"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

Micro-D

Standard Micro-D

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



■ Contacts

■ English (IN)

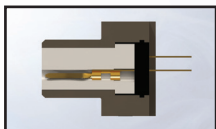
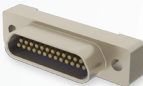
■ Metric (mm)

"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

Micro-D

Standard Micro-D

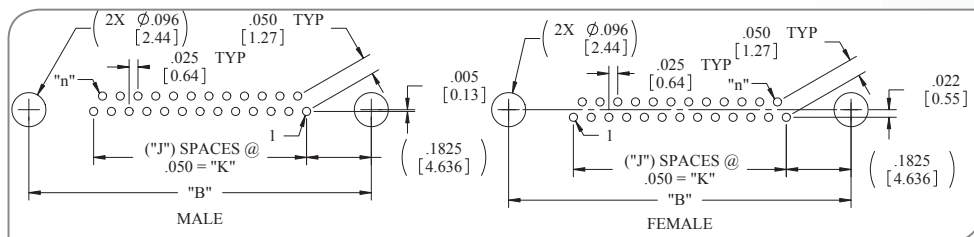
■ Metal Shell Micro-D Straight Thru-Hole (TYPE S2)

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

Example



MMDS-025-N00-S2-HTE



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■ 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

■ 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 -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 discontinuities > 1 microsecond
■ Vibration:	20 g's with no discontinuities > 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

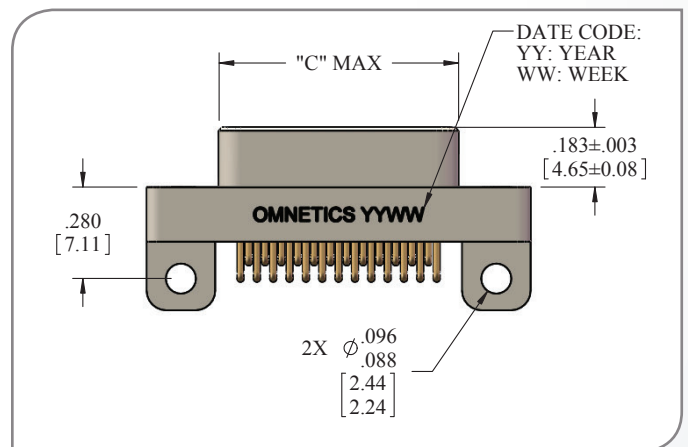
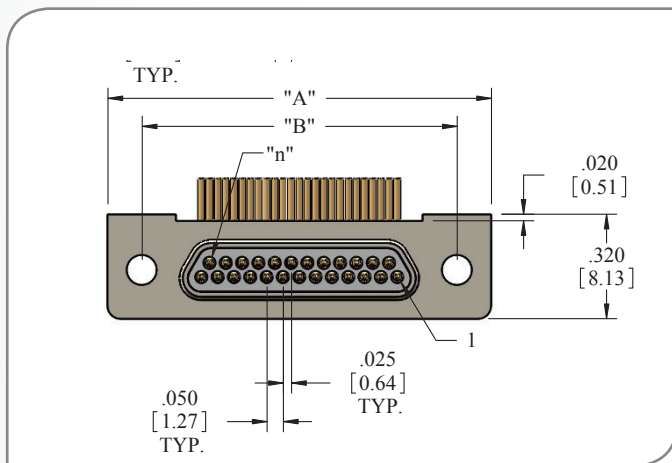
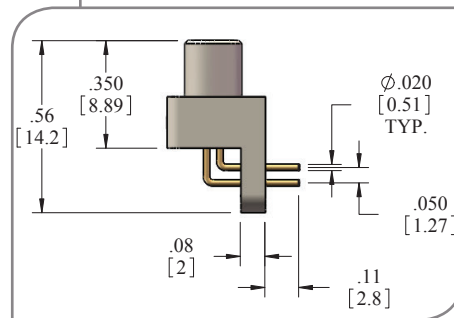
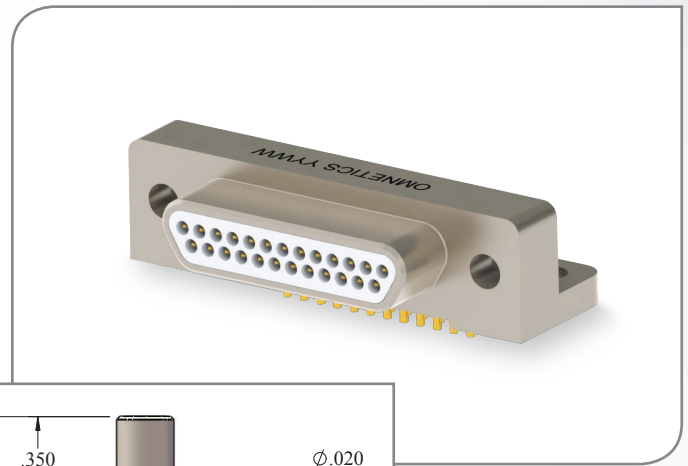
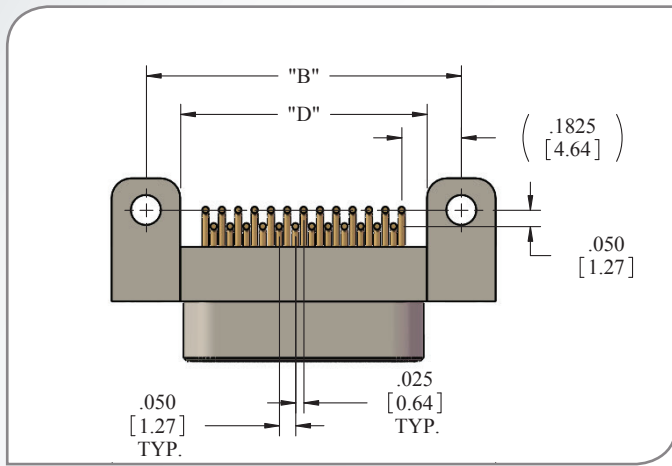
■ Shell Options

■ 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

Micro-D

Standard Micro-D

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



33

■ Contacts

■ English (IN)

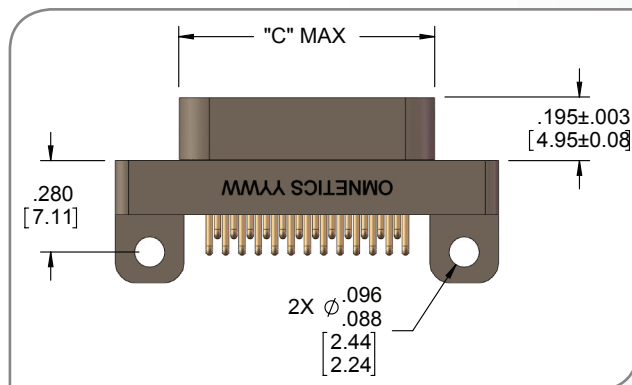
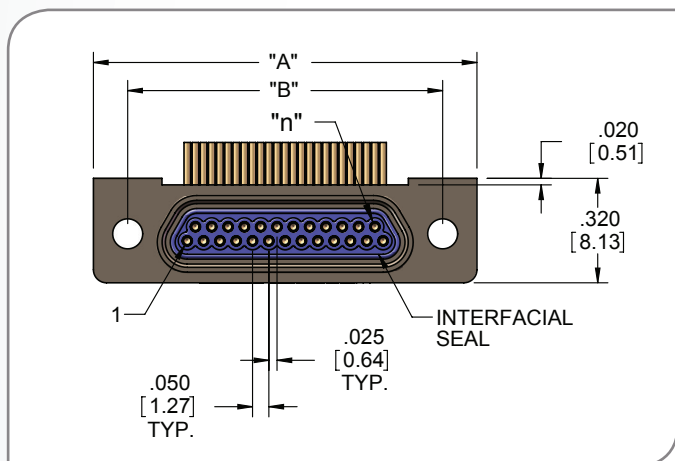
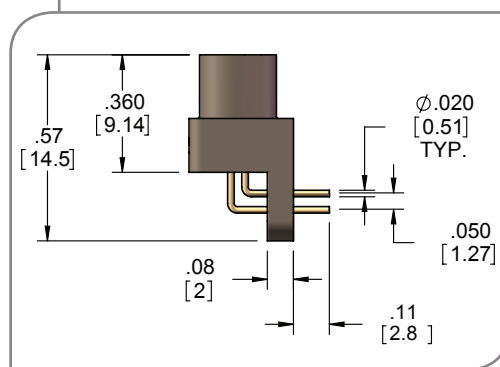
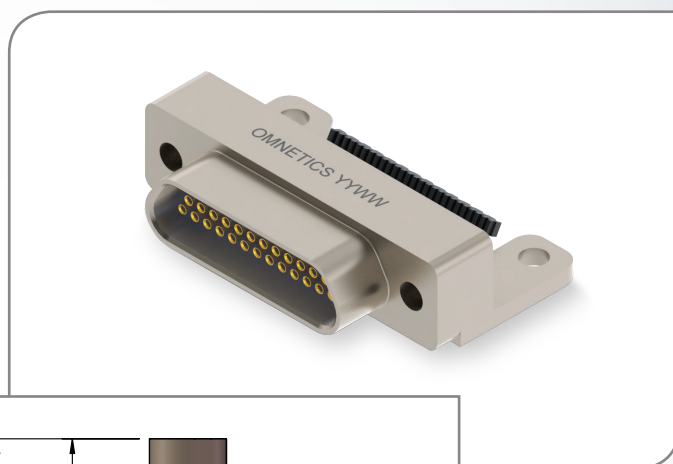
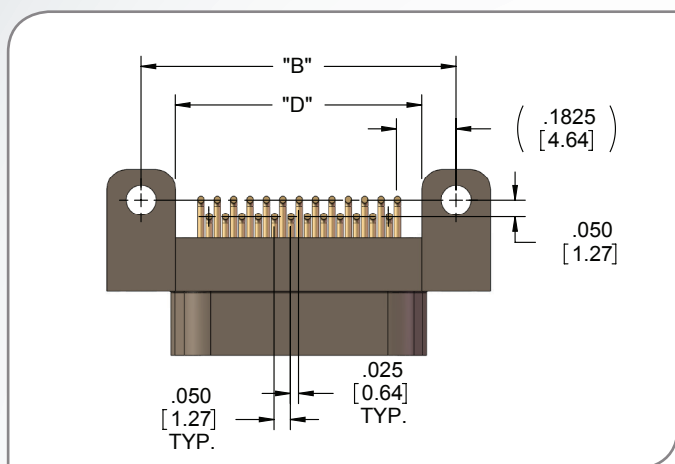
■ Metric (mm)

"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

Micro-D

Standard Micro-D

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



■ Contacts

■ English (IN)

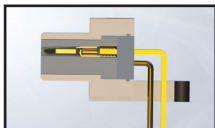
■ Metric (mm)

	"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

Micro-D

Standard Micro-D

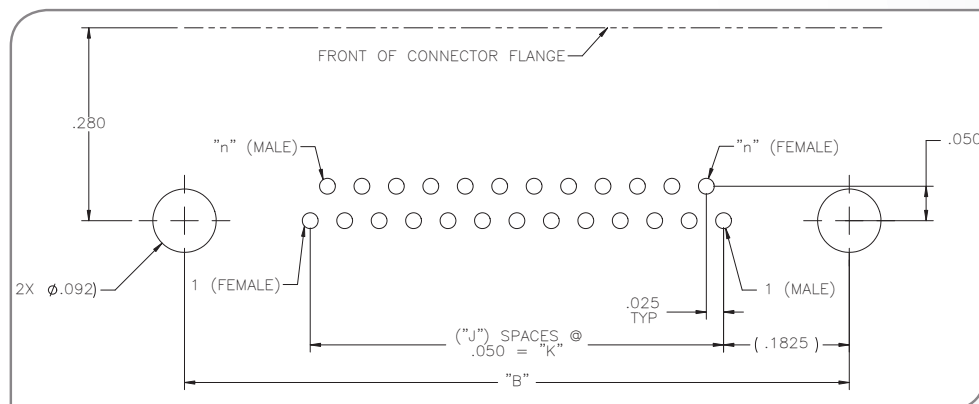
■ Metal Shell Micro-D Right Angle Thru-Hole (TYPE R2)

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

Example



MMDP-025-N00-R2



35

■ 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

■ 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 -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 discontinuities > 1 microsecond
■ Vibration:	20 g's with no discontinuities > 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

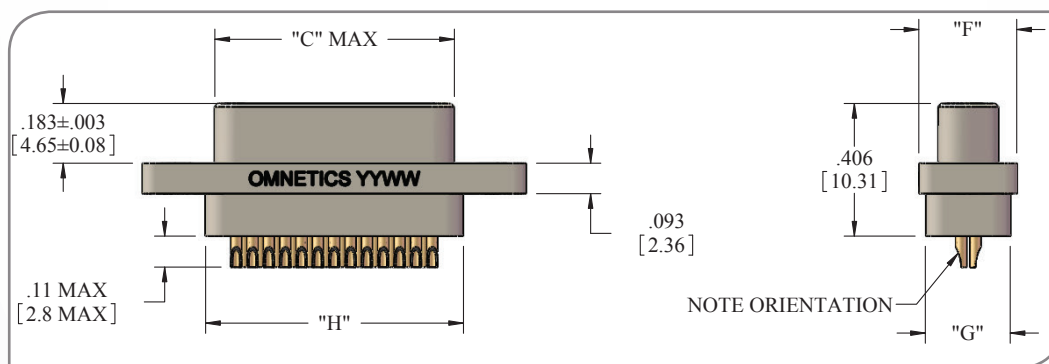
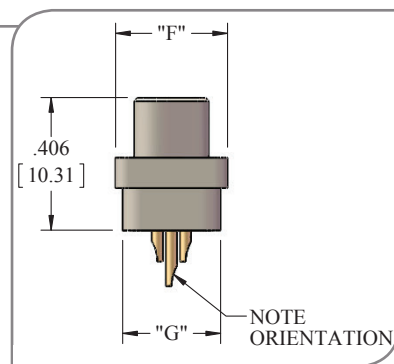
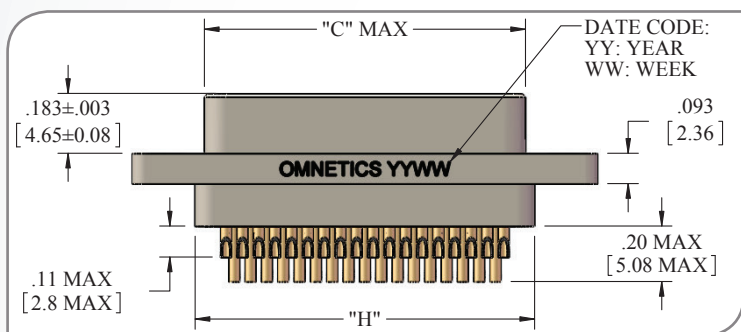
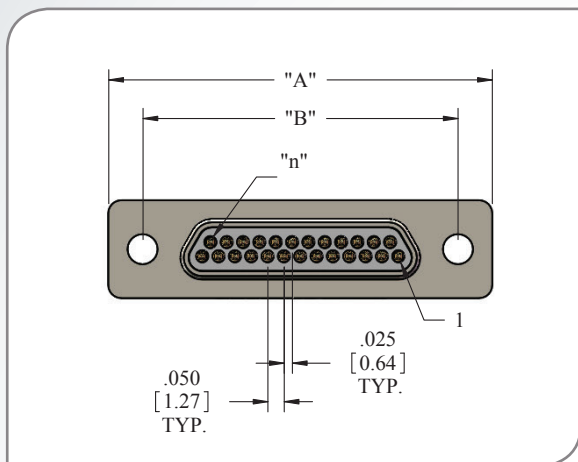
■ Shell Options

■ 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

Micro-D

Standard Micro-D

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



■ Contacts

■ English (IN)

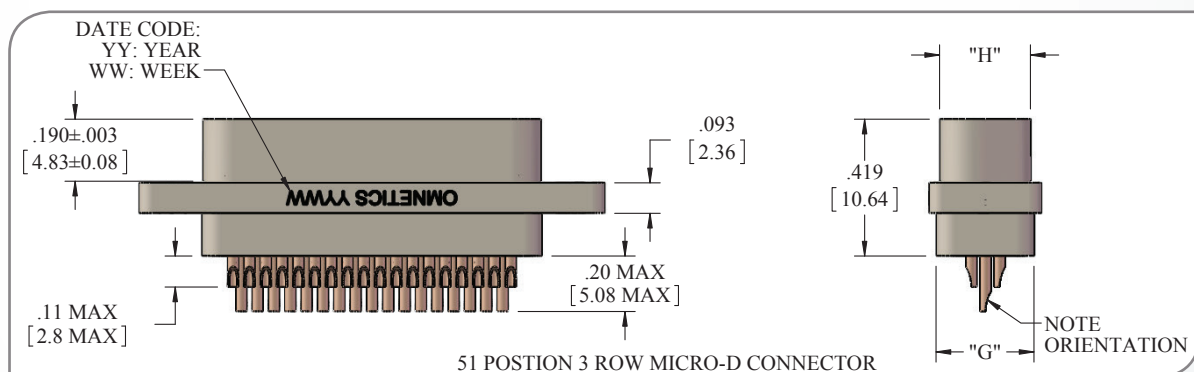
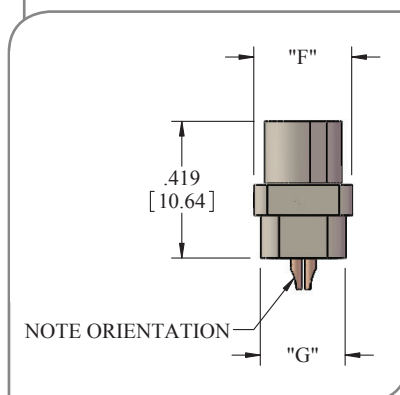
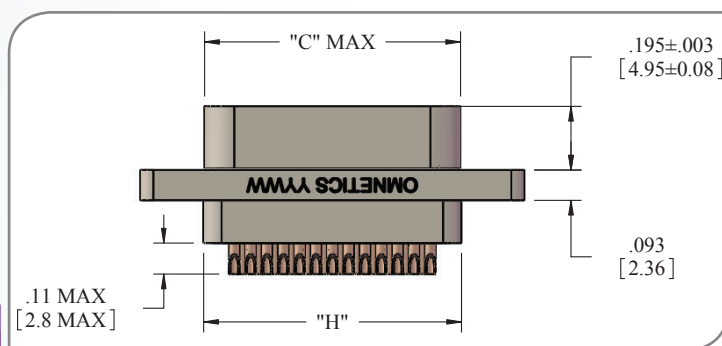
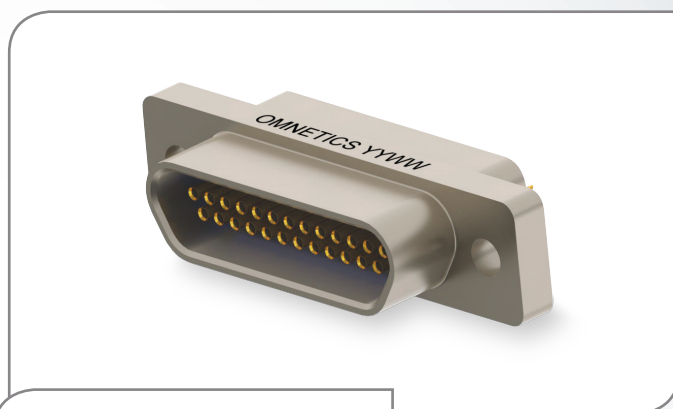
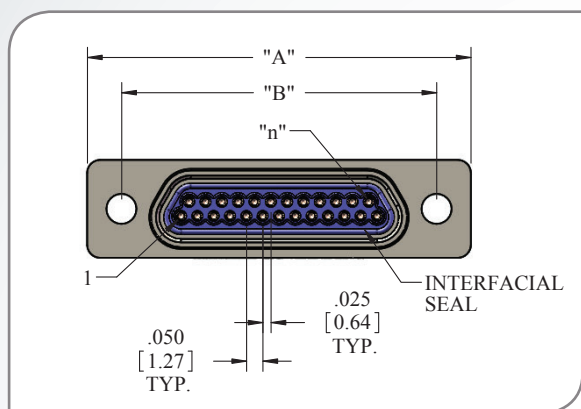
■ Metric (mm)

	"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

Micro-D

Standard Micro-D

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



■ Contacts

■ English (IN)

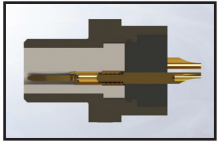
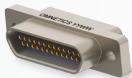
■ Metric (mm)

"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

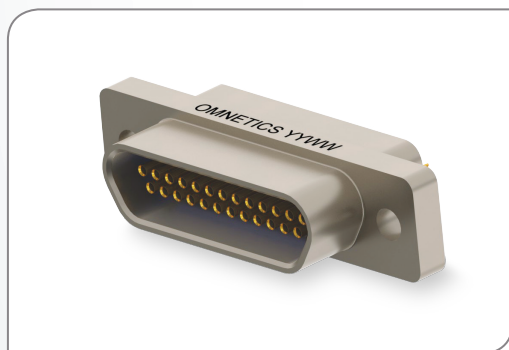
Micro-D

Standard Micro-D

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

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

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

■ 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 -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 discontinuities > 1 microsecond
■ Vibration:	20 g's with no discontinuities > 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

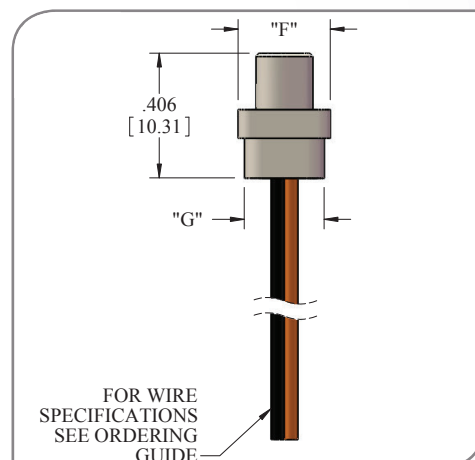
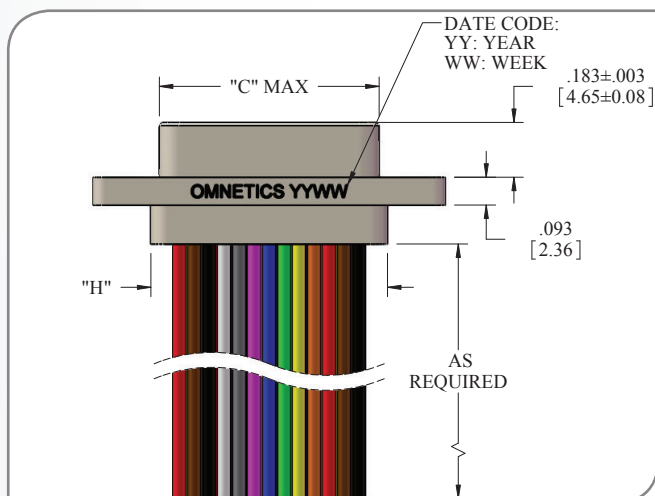
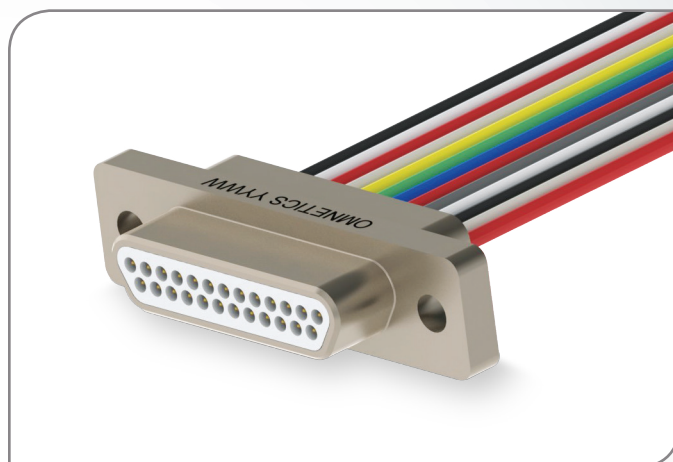
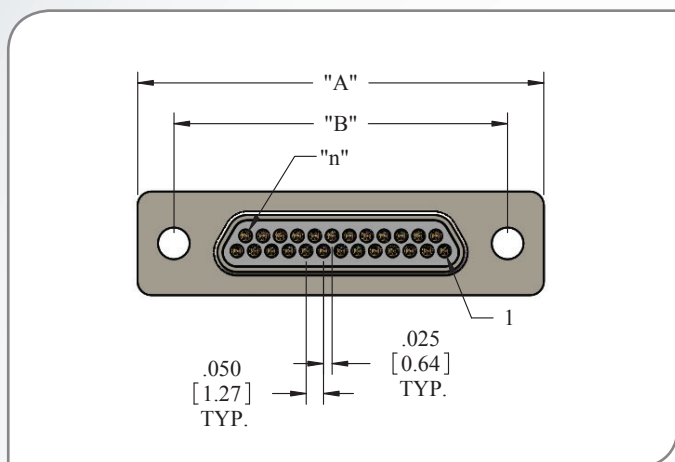
■ Shell Options

■ 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

Micro-D

Standard Micro-D

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



■ Contacts

■ English (IN)

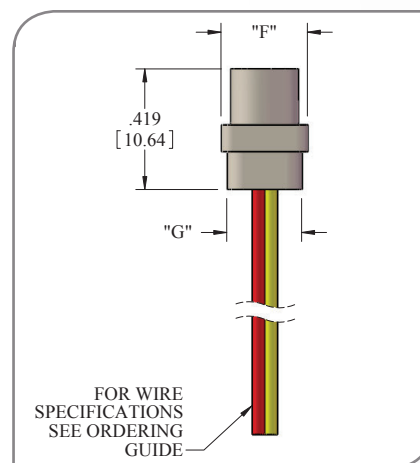
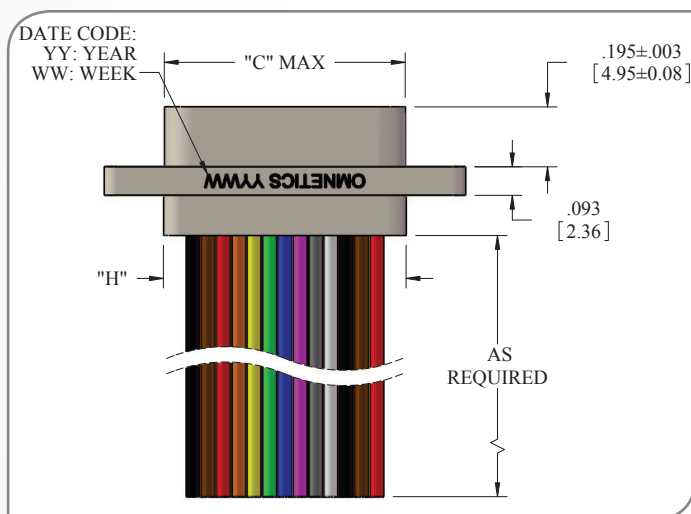
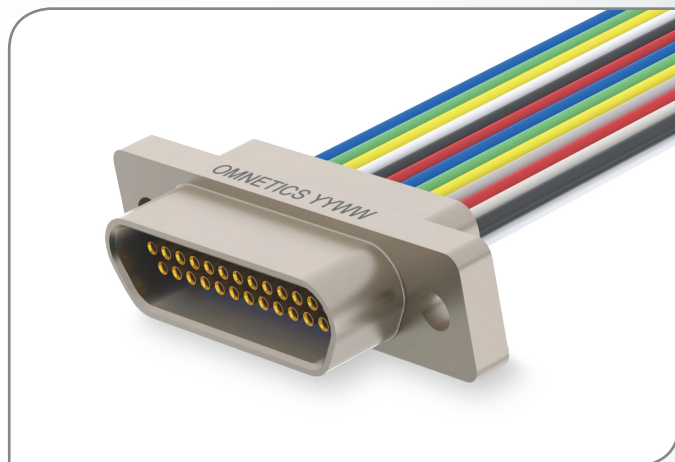
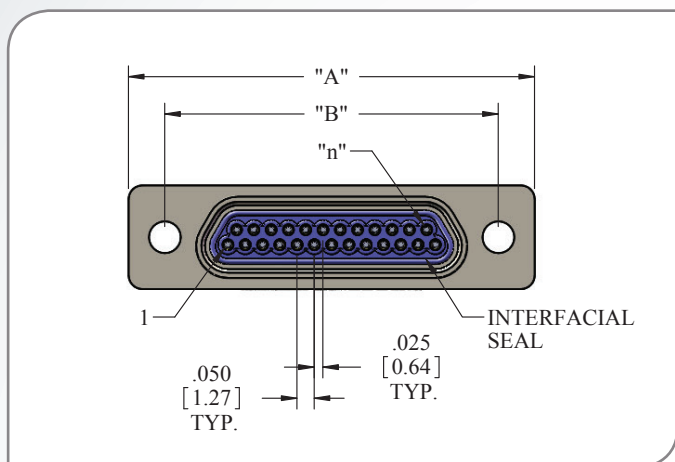
■ Metric (mm)

	"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

Micro-D

Standard Micro-D

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



■ Contacts

■ English (IN)

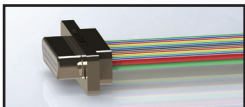
■ Metric (mm)

	"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

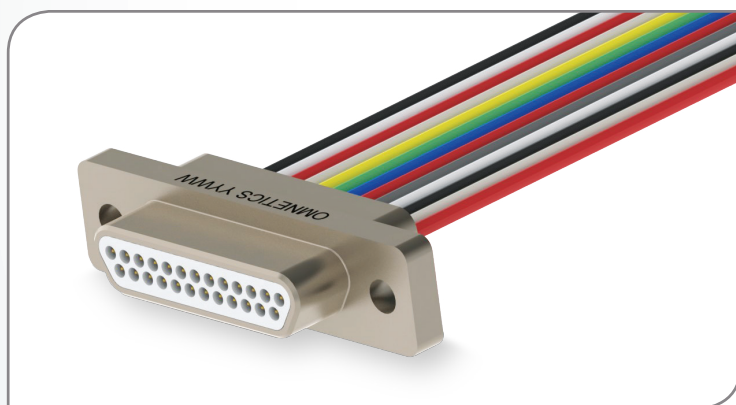
Micro-D

Standard Micro-D

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

Series	# of Contacts	Shell Material and Finish	Hardware	Termination Type	Options
■ MMD	009	 N (STD)	00 - NONE, Ø	WD - Discrete Leadwire	HTE
Male	015	Aluminum Shell, Electroless Nickel Plated	.092 HOLE (STD)		High Temp. Epoxy
(P - Pin)	021		01 - FIXED JACK-POSTS (STD)		
	025		02 - JACKSCREWS, STD LENGTH, HEX HEAD (STD)	WIRE AWG:	
	031	 C		6 - 26 AWG (STD)	
	037	Aluminum Shell, Cadmium Plated	03 - JACKSCREWS, STD LENGTH, SLOTTED	8 - 28 AWG	
	051*		04 - JACKSCREWS, LONG, HEX	0 - 30 AWG	
		 B		WIRE TYPE:	RH
Female		Aluminum Shell, Black Anodized	05 - JACKSCREWS, LONG, SLOTTED	Q - NEMA HP3	RoHS
(S- Socket)			06 - 07 FLOAT-MOUNT OPTIONS	(FORMERLY M16878/4 & 6) (STD)	COMPLIANT
		 P		R - M22759/11	
		Stainless Steel Shell, Passivated		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	

Example



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

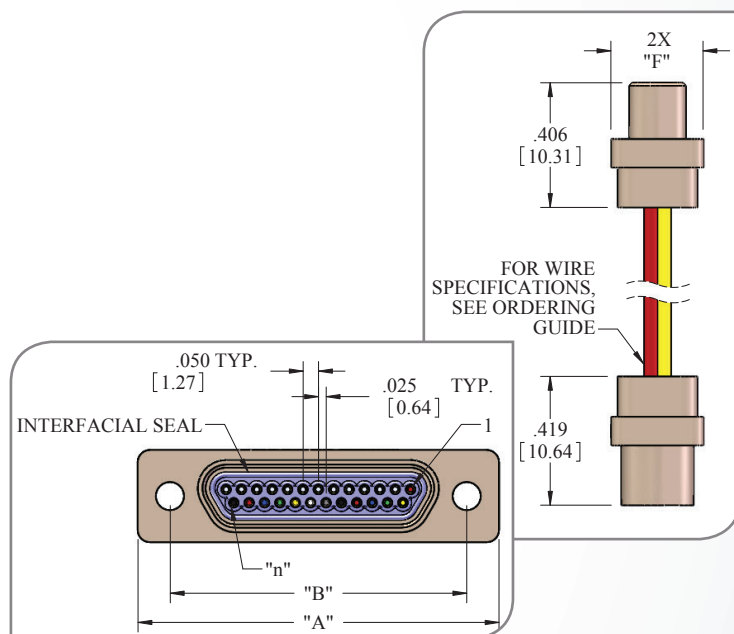
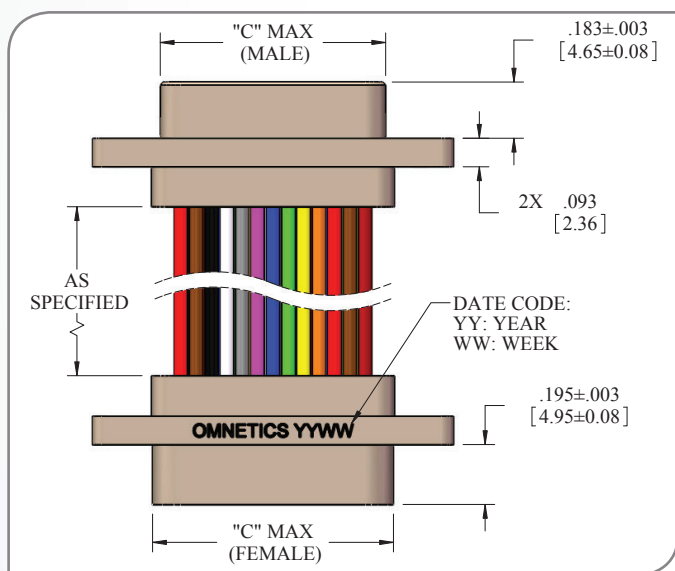
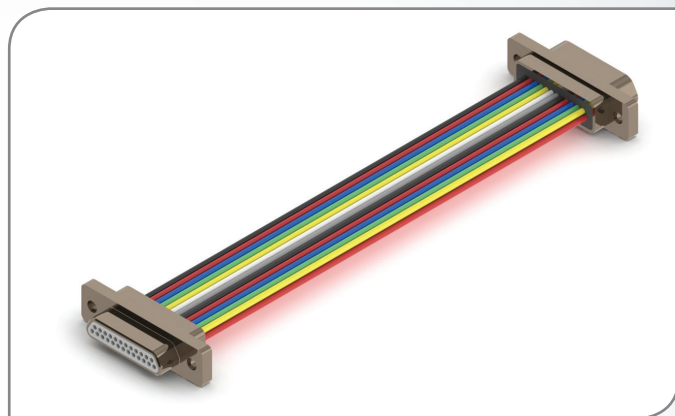
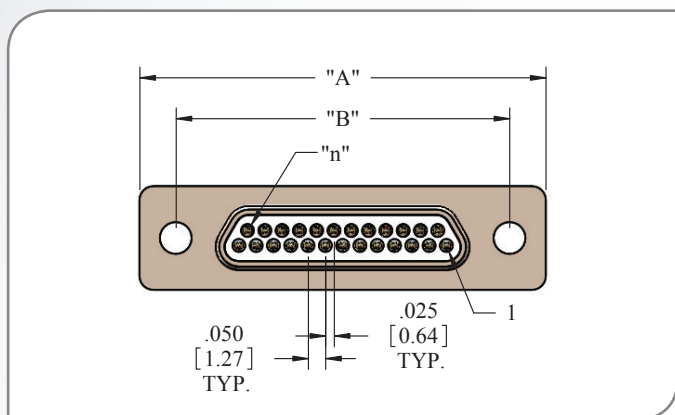
■ Standard

"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

Micro-D

Standard Micro-D

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



■ Contacts

■ English (IN)

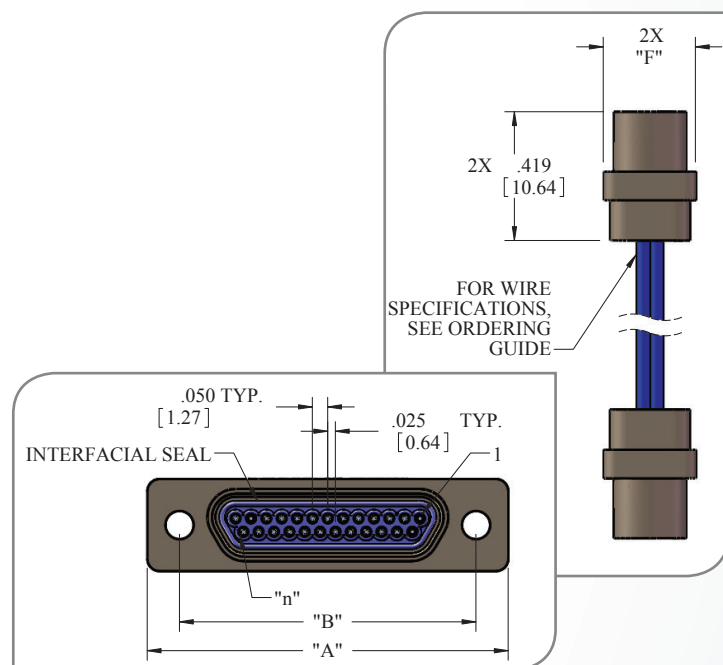
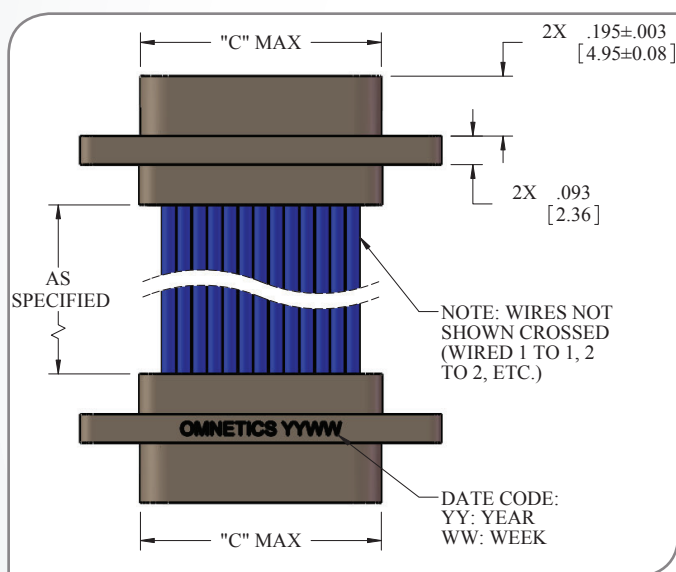
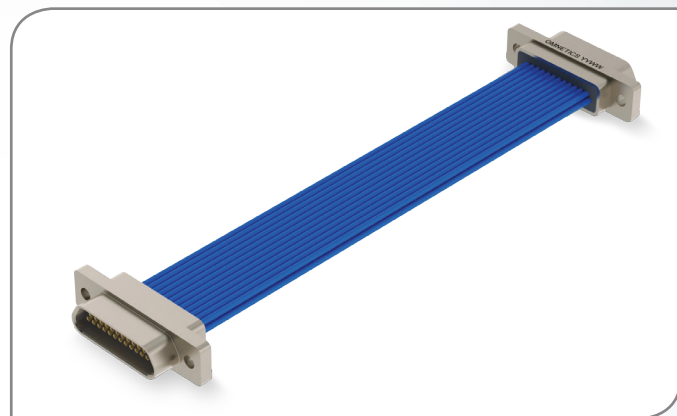
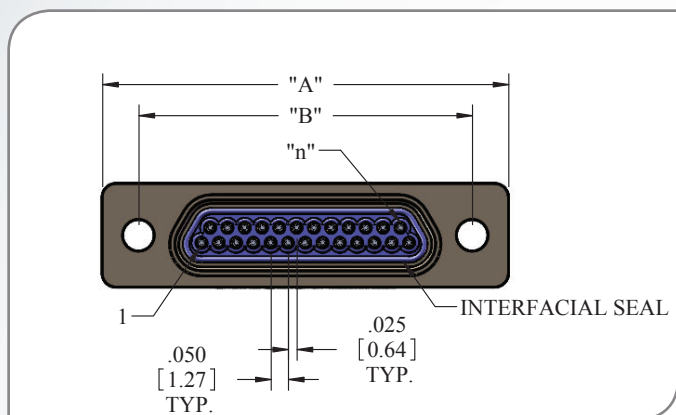
■ Metric (mm)

	"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

Micro-D

Standard Micro-D

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



■ Contacts

■ English (IN)

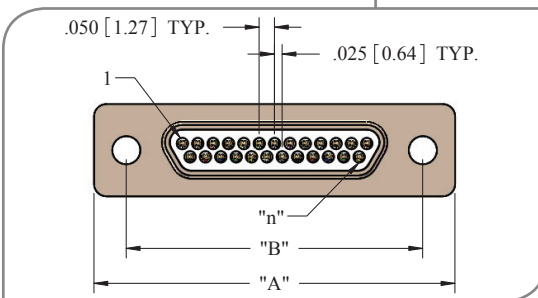
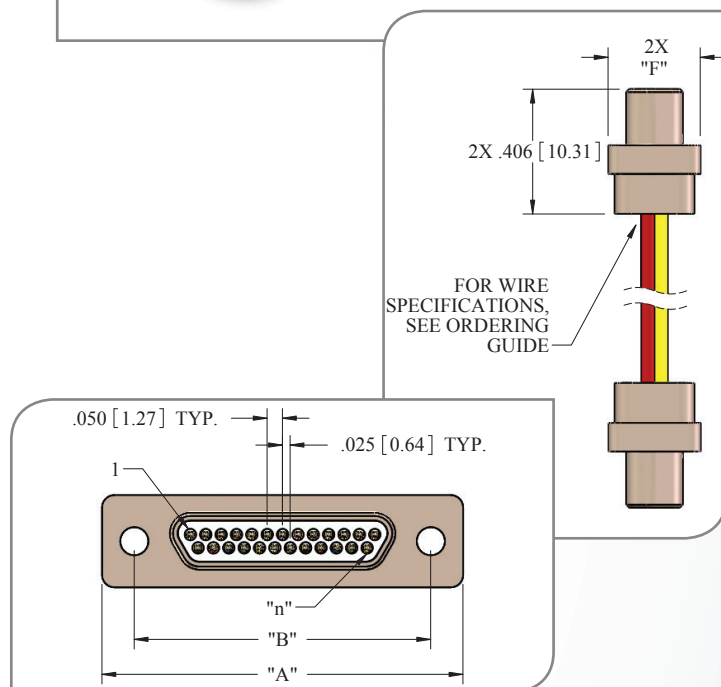
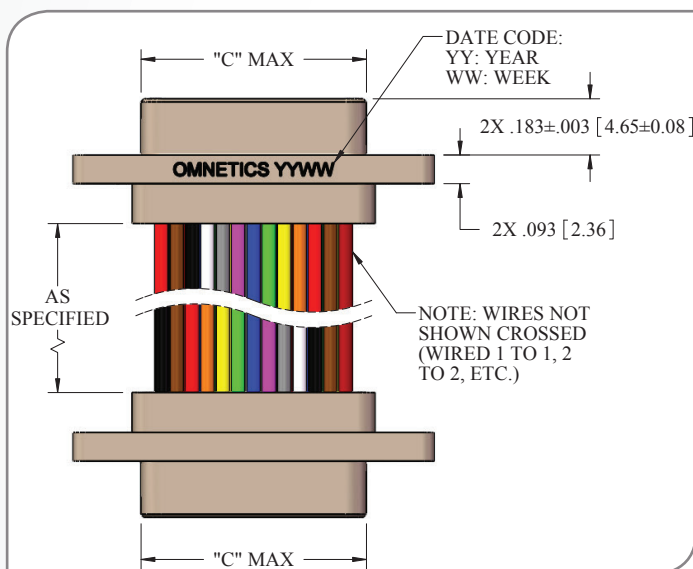
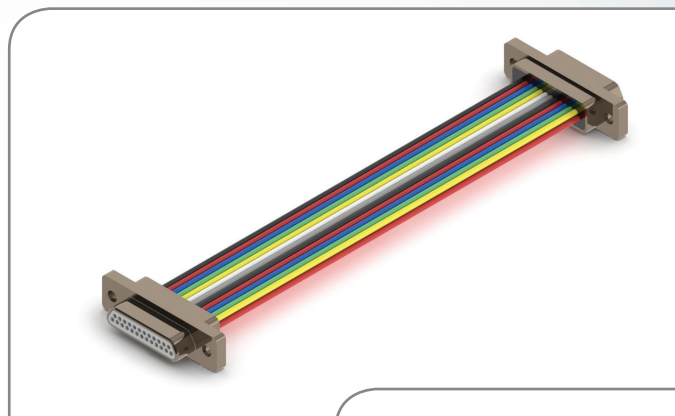
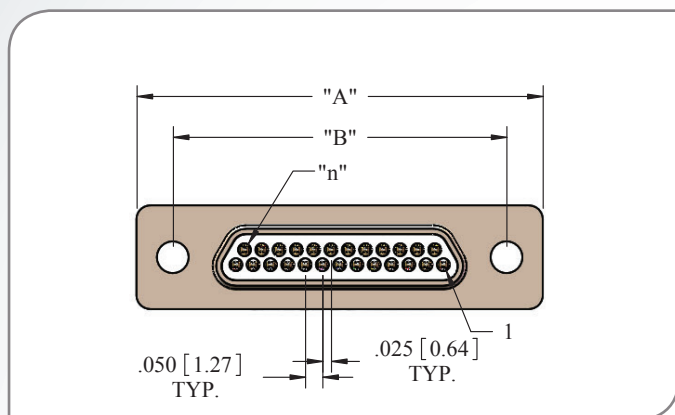
■ Metric (mm)

	"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

Micro-D

Standard Micro-D

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



■ Contacts

■ English (IN)

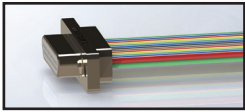
■ Metric (mm)

"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

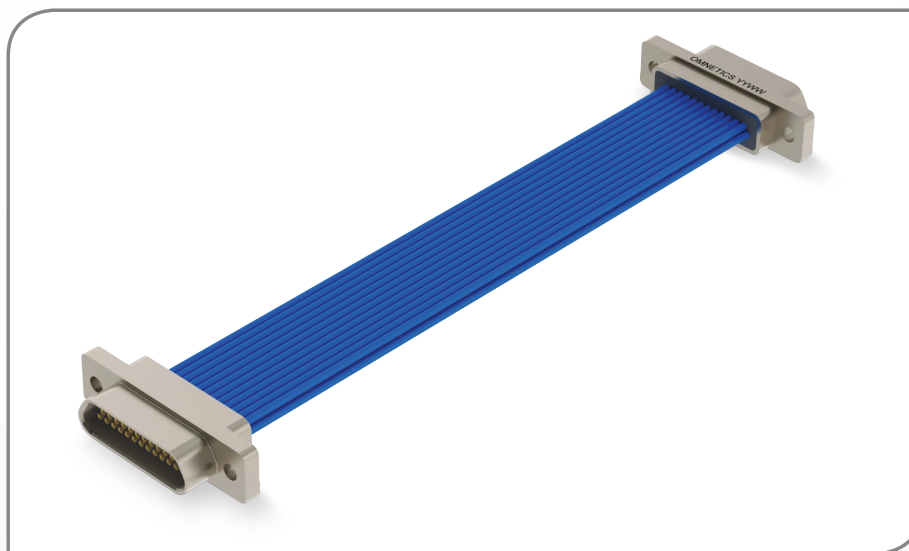
Micro-D

Standard Micro-D

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

Series	# of Contacts	Shell Material and Finish	Hardware	Termination	Options
■ MMD W - FEMALE TO MALE  	009 015 021 025 031 037 51*	 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 
X - FEMALE TO FEMALE 	*(Use 512 for Two Row 051 and 513 for Three Row 051)				
Y - MALE TO MALE 					

Example

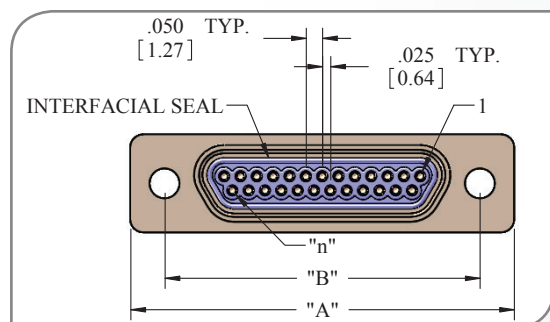
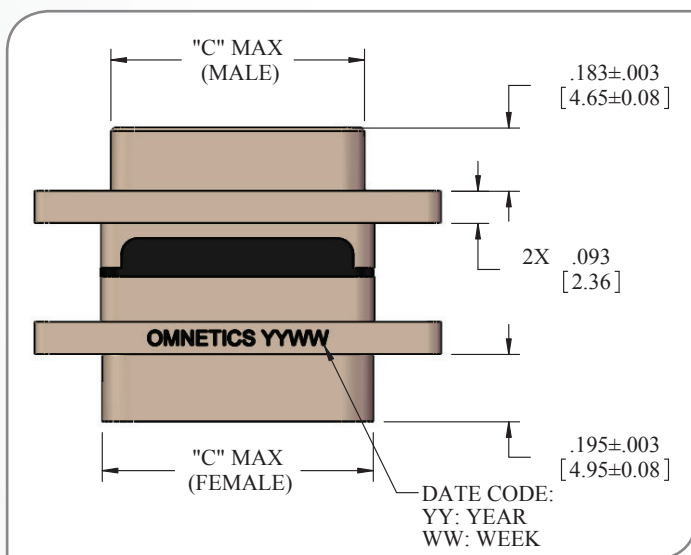
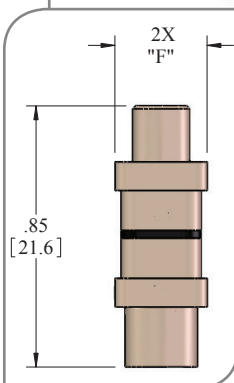
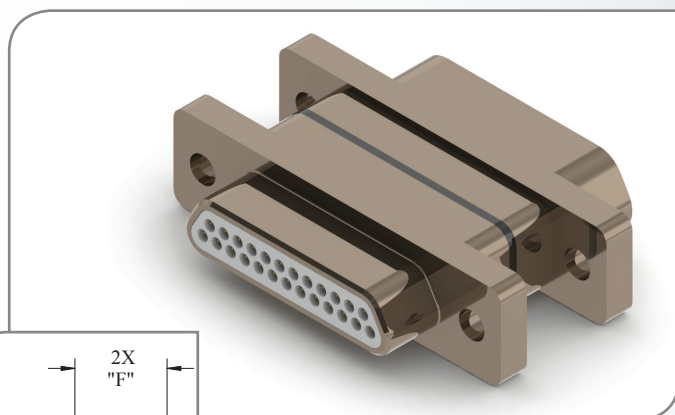
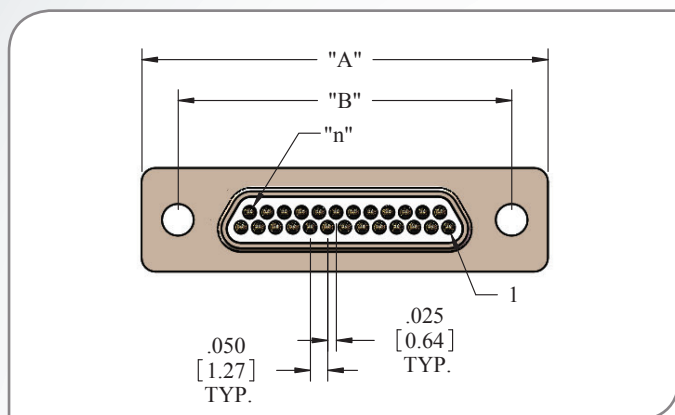


MMDX-025-N00-WD6Q18.0-2

Micro-D

Standard Micro-D

■ 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

Micro-D

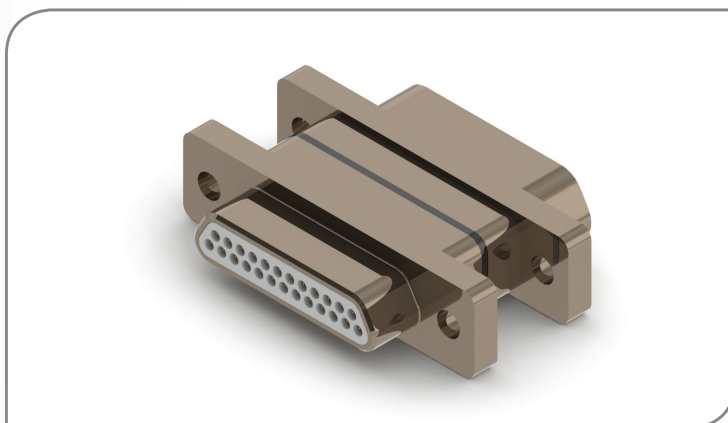
Standard Micro-D

■ Metal Shell Micro-D Connector Saver (TYPE Z)

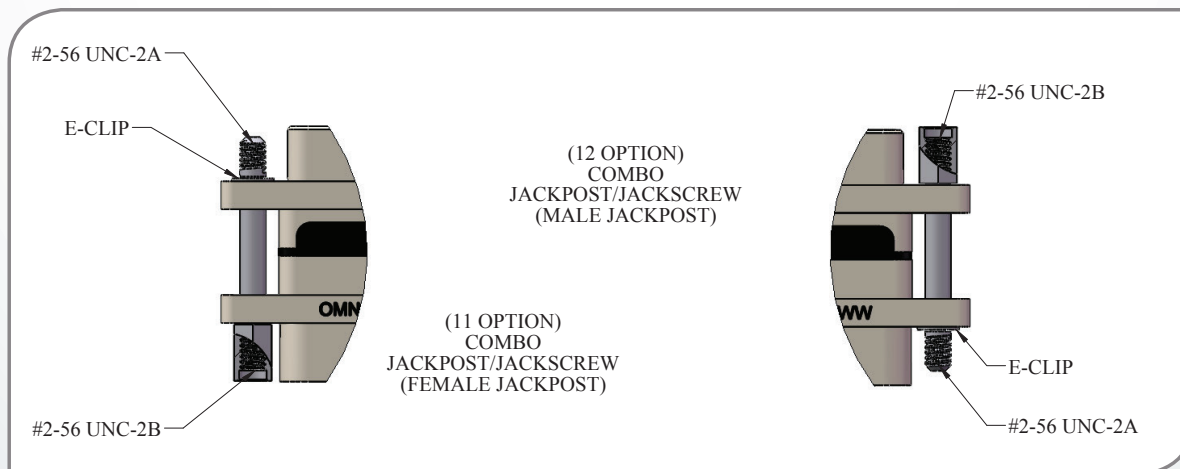
Series	# of Contacts	Shell Material and Finish	Hardware	Options
MMD Z- CONNECTOR SAVER	009	 N (STD) Aluminum Shell, Electroless Nickel Plated	00 - NONE, .092 HOLE (STD)	HTE High Temp. Epoxy 
	015		01 - FIXED JACK- POSTS (STD)	
	021	 C Aluminum Shell, Cadmium Plated	11 - COMBO JACKPOST/ JACKSCREW	RH RoHS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

*(Use 512 for
Two Row 051
and 513 for
Three Row 051)

Example



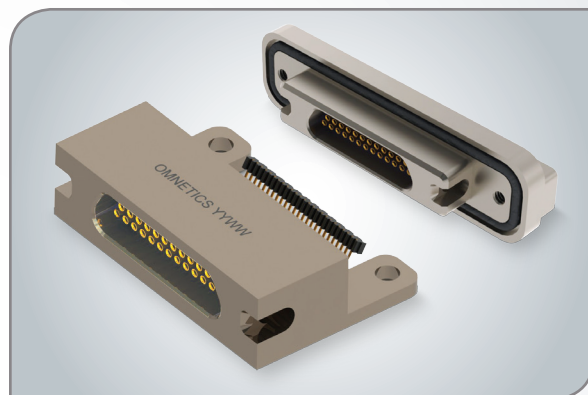
MMDZ-025-N00-HTE



■ Latching Micro-D Horizontal Surface Mount (TYPE H0)

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 discontinuities > 1 microsecond
■ Vibration:	20 g's with no discontinuities > 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

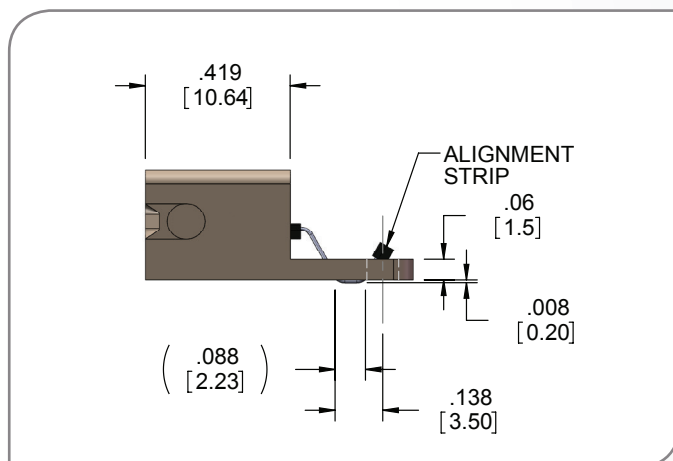
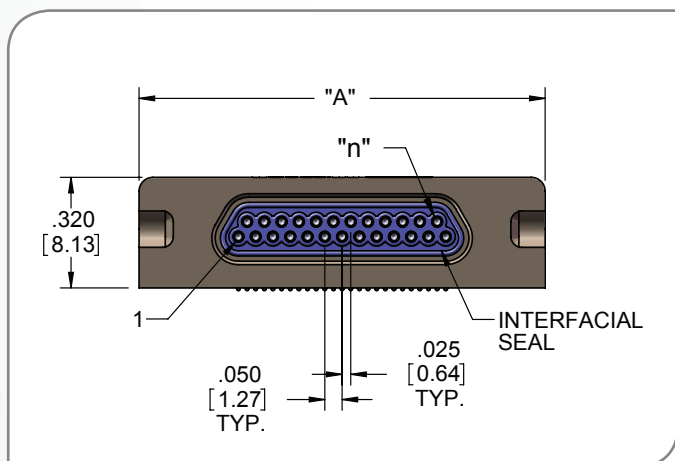
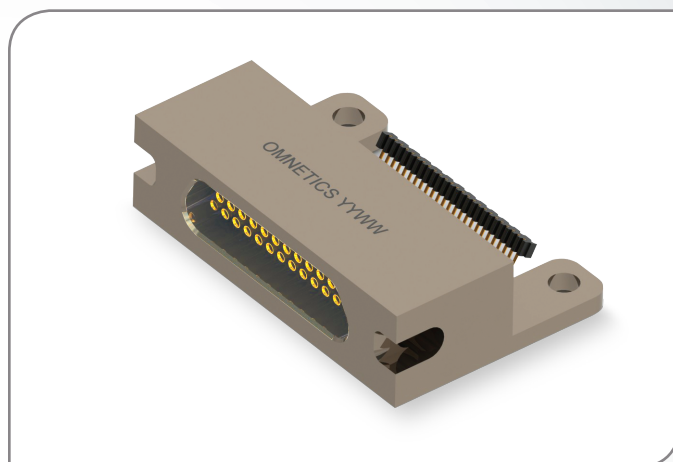
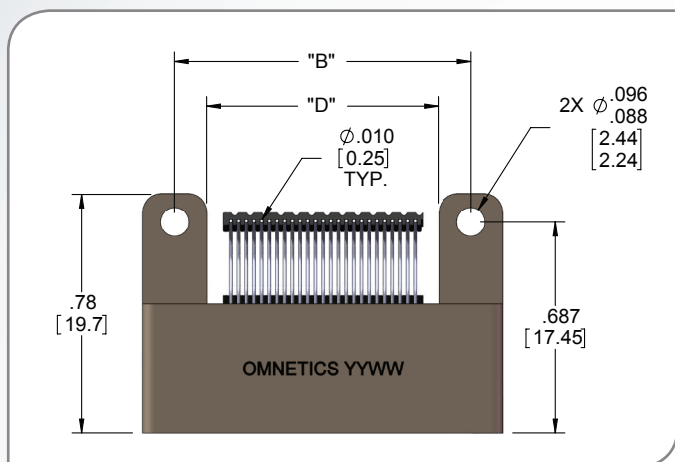
■ Shell Options

■ 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

Micro-D

Latching Micro-D

■ Latching Micro-D Female Horizontal Surface Mount (TYPE H0)



■ Contacts

■ English (IN)

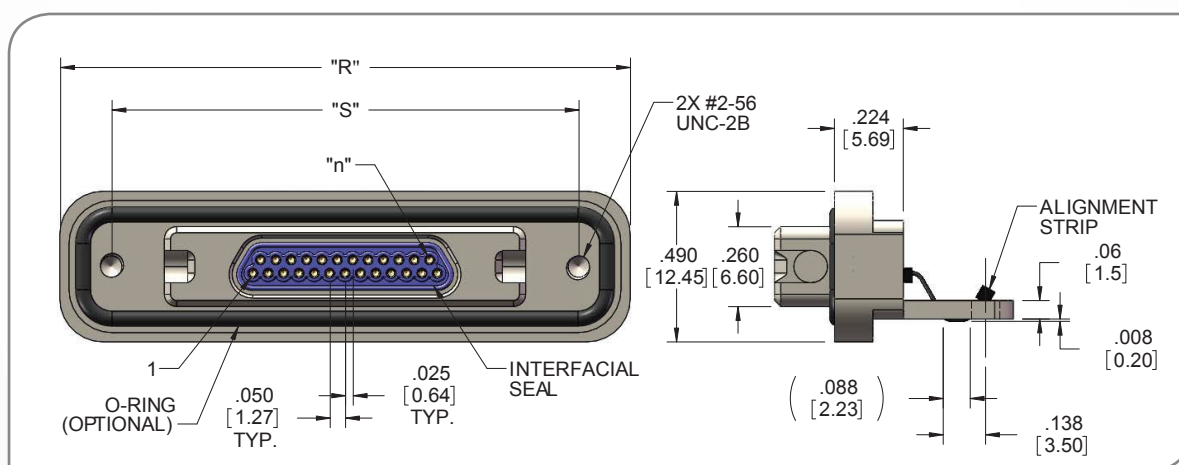
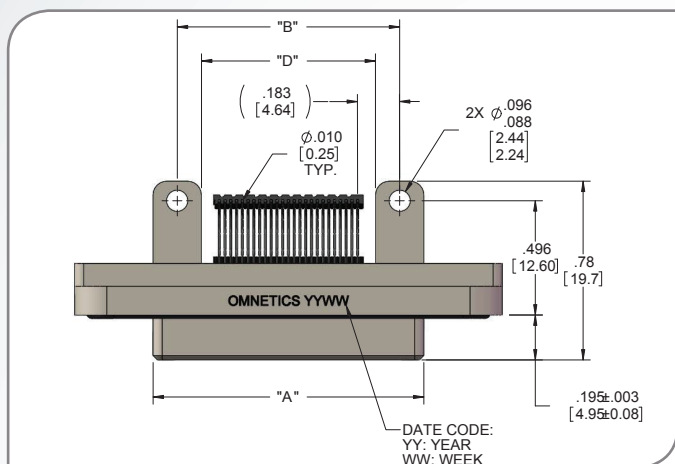
■ Metric (mm)

"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

Micro-D

Latching Micro-D

■ Latching Micro-D Female Horizontal Surface Mount Panel Mount (TYPE H0)



■ Contacts

■ English (IN)

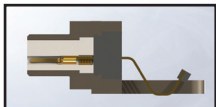
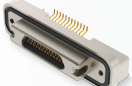
■ Metric (mm)

	"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

Micro-D

Latching Micro-D

■ Latching Micro-D Horizontal Surface Mount (TYPE H0)

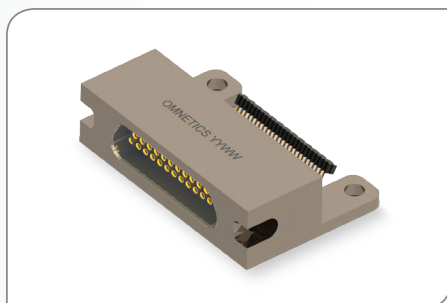
Series	# of Contacts	Shell Material and Finish / Hardware	Termination Type	Options
■ LMD S-Socket	009 015 021 025 031 037 512	 N (STD) Aluminum Shell, Electroless Nickel Plated  C Aluminum Shell, Cadmium Plated  B Aluminum Shell, Black Anodized  P Stainless Steel Shell, Passivated	H0 - Horizontal Surface Mount 	HTE High Temp. Epoxy  RH RoHS COMPLIANT  PA Panel Mount, Rear, O-Ring  PB Panel Mount, Rear 

(Two Row 051)

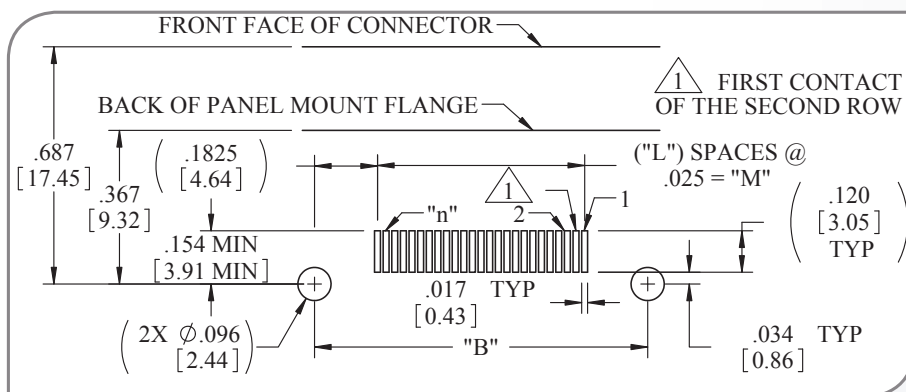
Options:
001-051

51- Latch Receptacle

Example



LMDS-025-N51-H0-RH



■ Contacts

■ English (IN)

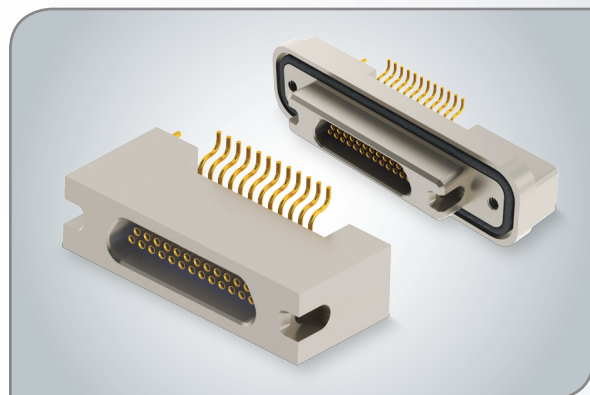
■ Metric (mm)

"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

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

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 aluminum 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 discontinuities > 1 microsecond
■ Vibration:	20 g's with no discontinuities > 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

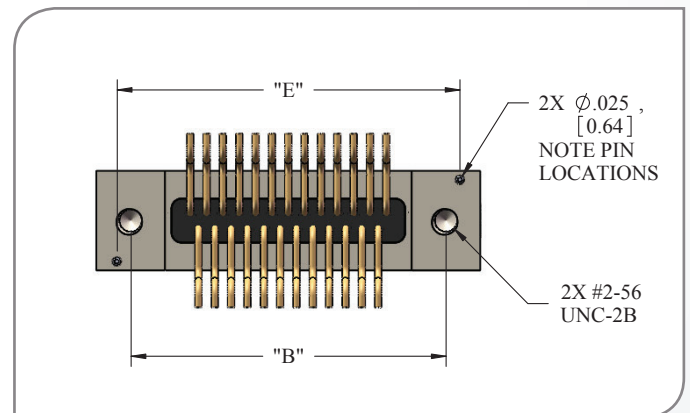
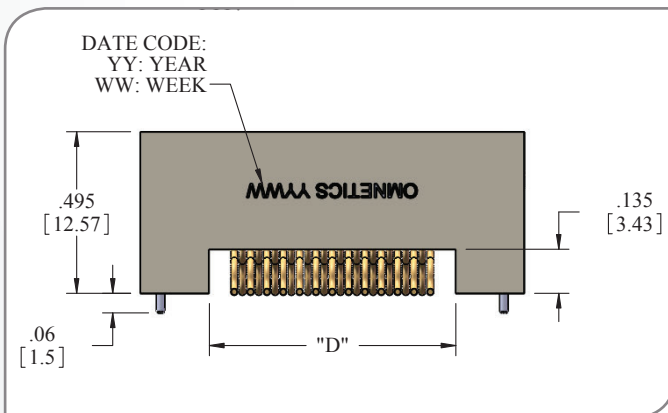
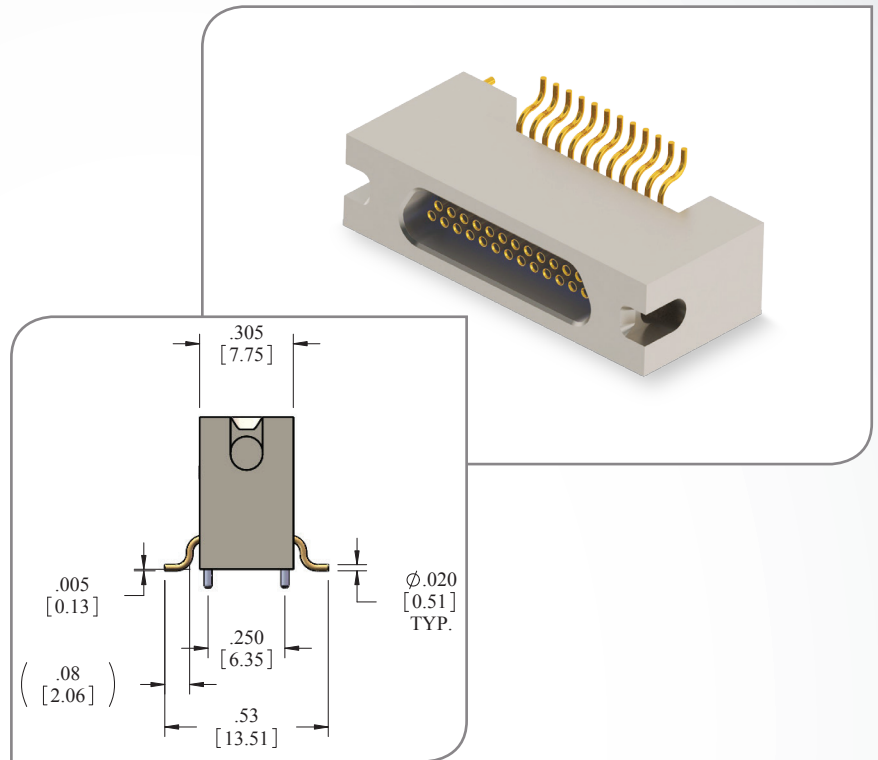
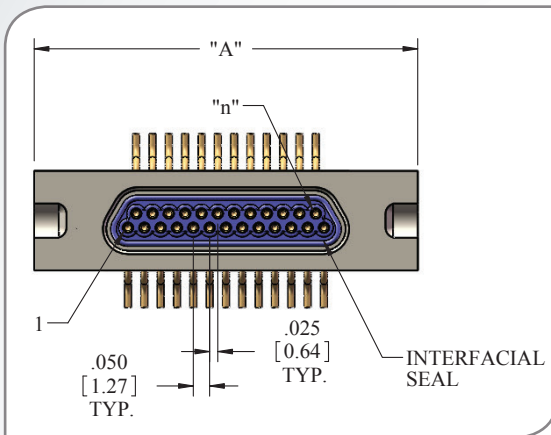
■ Shell Options

■ 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

Micro-D

Latching Micro-D

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



■ Contacts

■ English (IN)

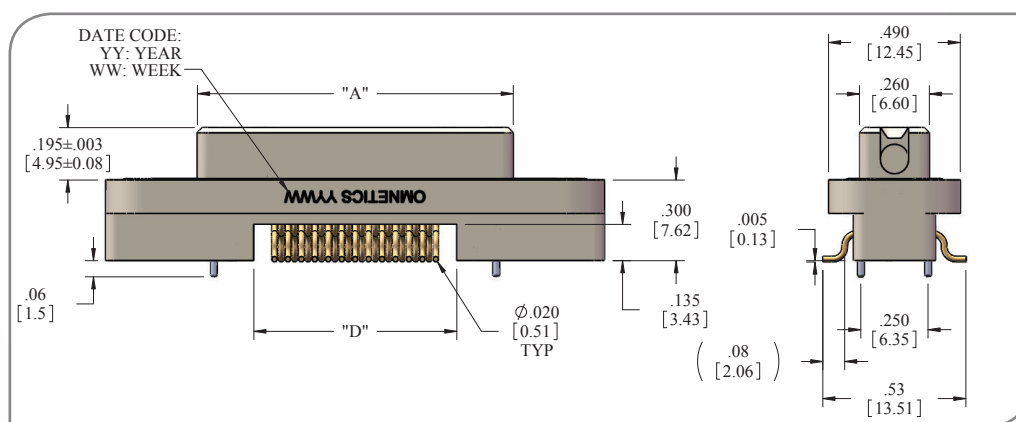
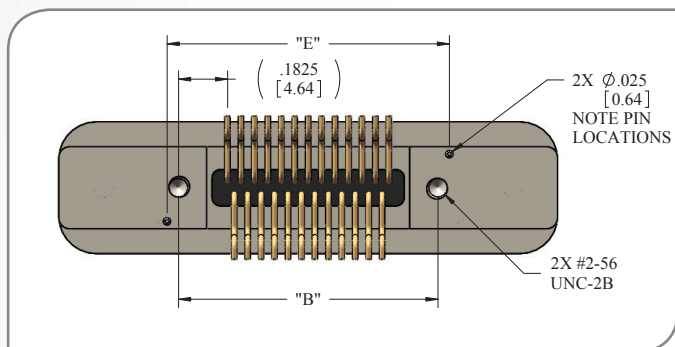
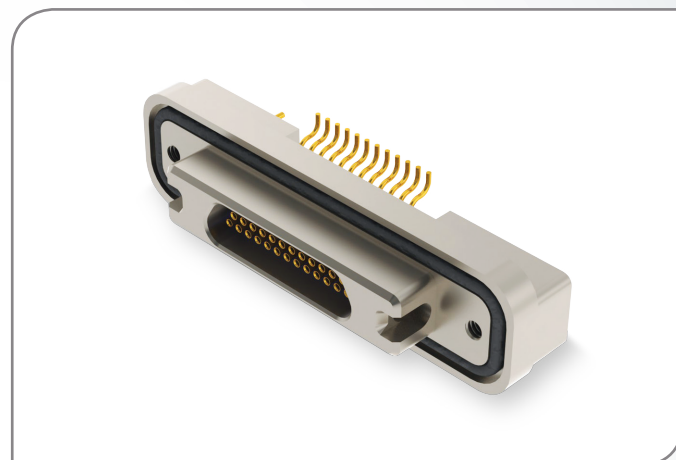
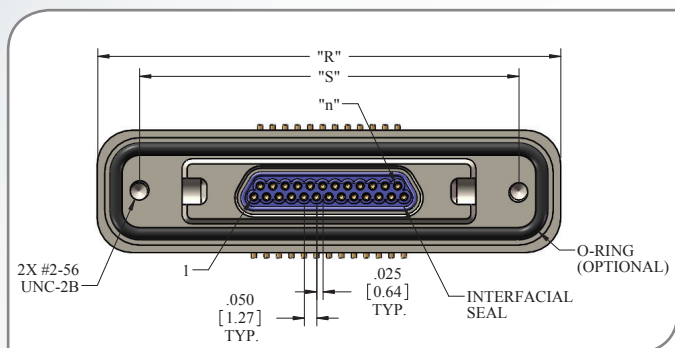
■ Metric (mm)

"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

Micro-D

Latching Micro-D

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



■ Contacts

■ English (IN)

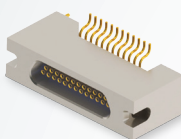
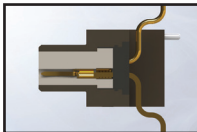
■ Metric (mm)

"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

Micro-D

Latching Micro-D

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

Series	# of Contacts	Shell Material and Finish / Hardware	Termination Type	Options
■ LMD S-Socket 	009	 N (STD) Aluminum Shell, Electroless Nickel Plated	V0 - Vertical Surface Mount 	HTE High Temp. Epoxy
	015			
	021	 C Aluminum Shell, Cadmium Plated		RH RoHS COMPLIANT
	025			
	031			
	037	 B Aluminum Shell, Black Anodized		PA Panel Mount, Rear, O-Ring
	512			
(Two Row 051)	 P Stainless Steel Shell, Passivated	PB Panel Mount, Rear		
Options: 001-051				

Example

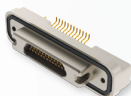


51- Latch Receptacle

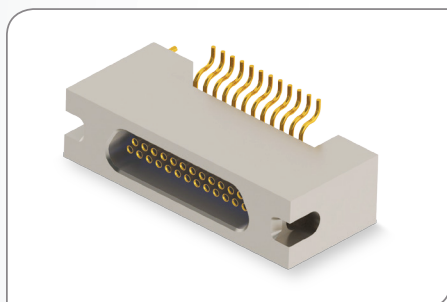






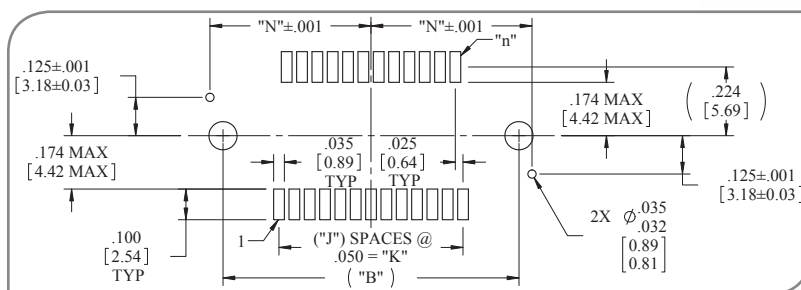


Example



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

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

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 aluminum 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 discontinuities > 1 microsecond
■ Vibration:	20 g's with no discontinuities > 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

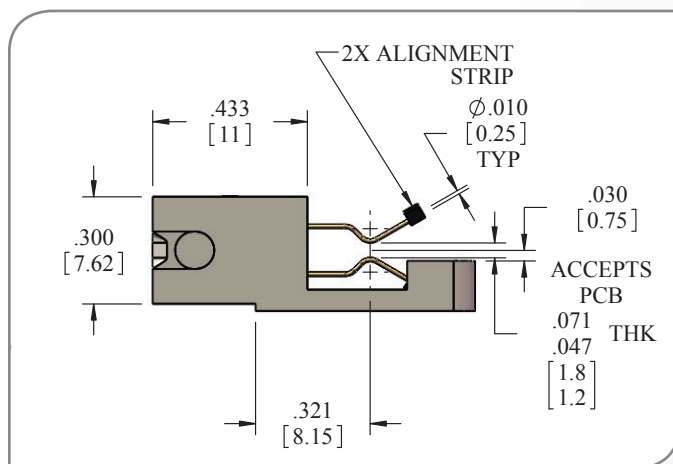
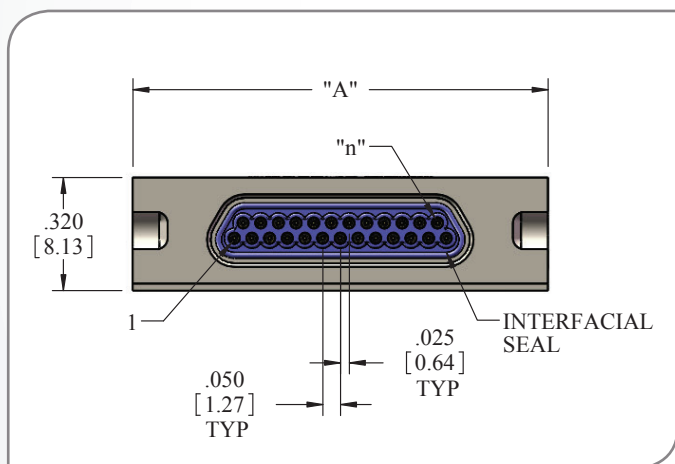
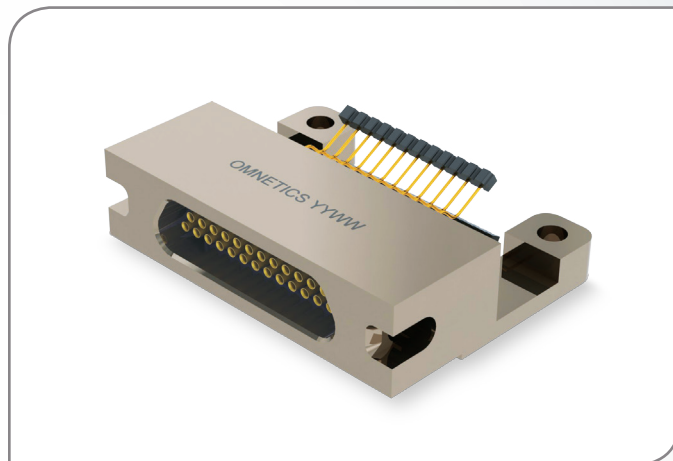
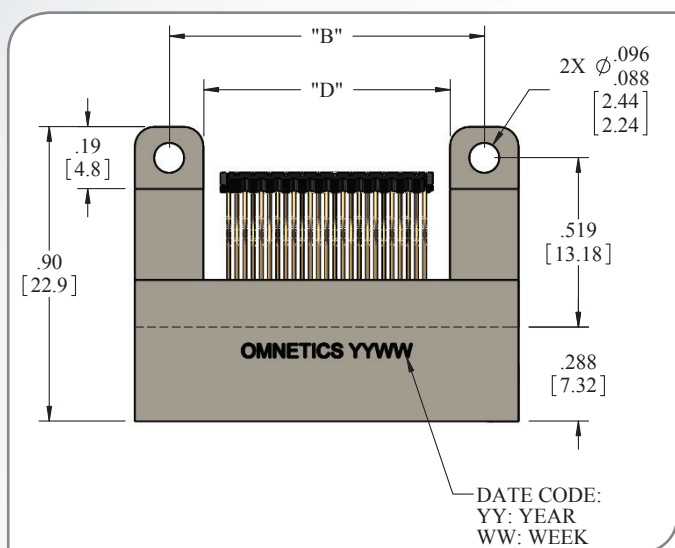
■ Shell Options

■ 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

Micro-D

Latching Micro-D

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



■ Contacts

■ English (IN)

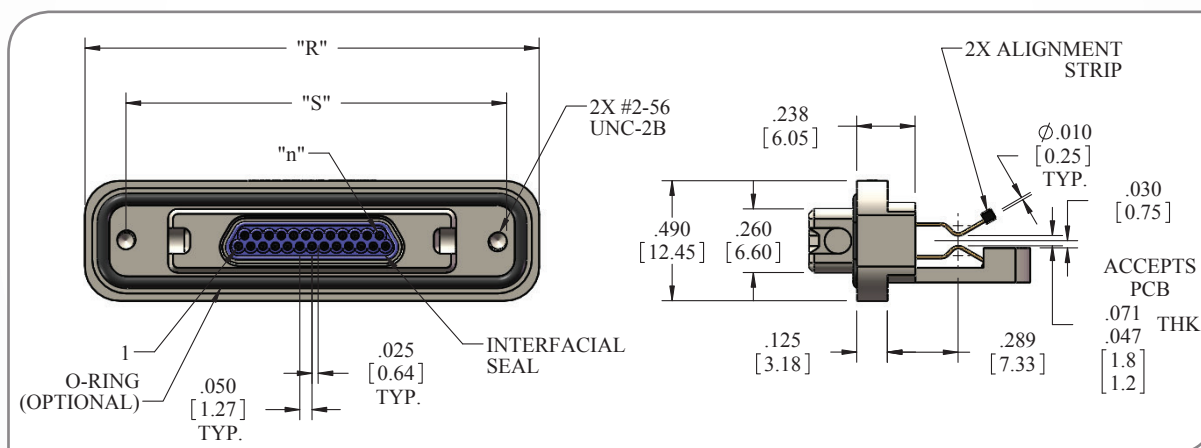
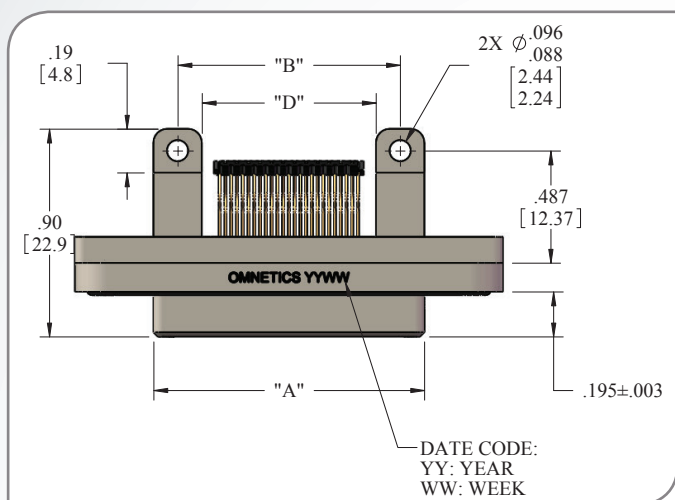
■ Metric (mm)

	"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

Micro-D

Latching Micro-D

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



■ Contacts

■ English (IN)

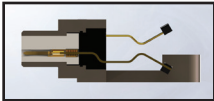
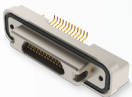
■ Metric (mm)

"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	35.05
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

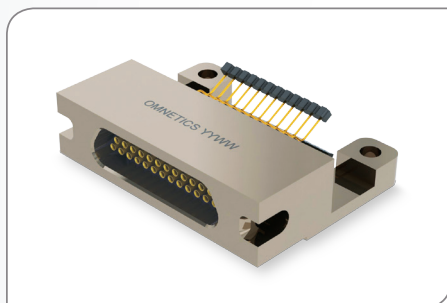
Micro-D

Latching Micro-D

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

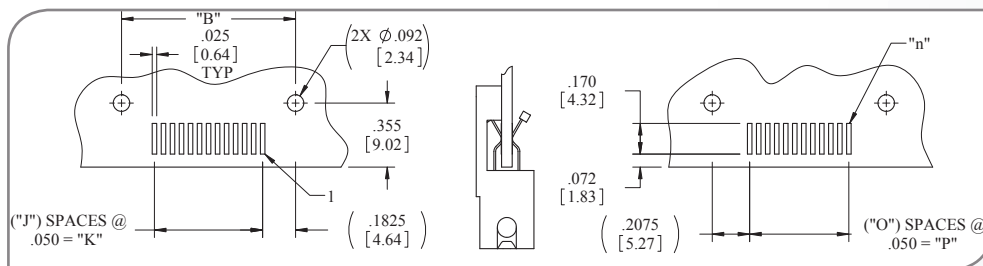
Series	# of Contacts	Shell Material and Finish / Hardware	Termination Type	Options
■ LMD S-Socket	009 015 021 025 031 037 512 (Two Row 051)	 N (STD) Aluminum Shell, Electroless Nickel Plated  C Aluminum Shell, Cadmium Plated  B Aluminum Shell, Black Anodized  P Stainless Steel Shell, Passivated	C0 - Card Edge Surface Mount 	HTE High Temp. Epoxy  RH RoHS COMPLIANT  PA Panel Mount, Rear, O-Ring  PB Panel Mount, Rear 

Example



LMDS-025-N51-C0-HTE

51- Latch Receptacle



■ 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

■ 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 discontinuities > 1 microsecond
■ Vibration:	20 g's with no discontinuities > 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

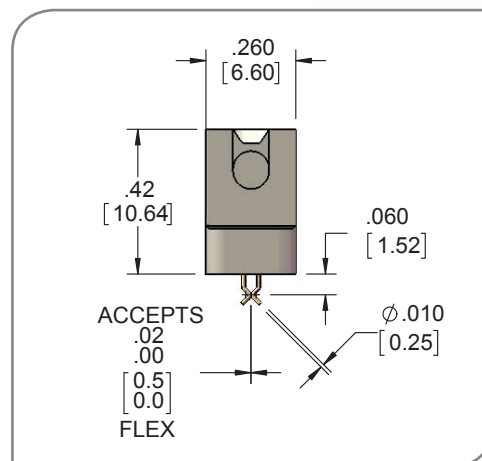
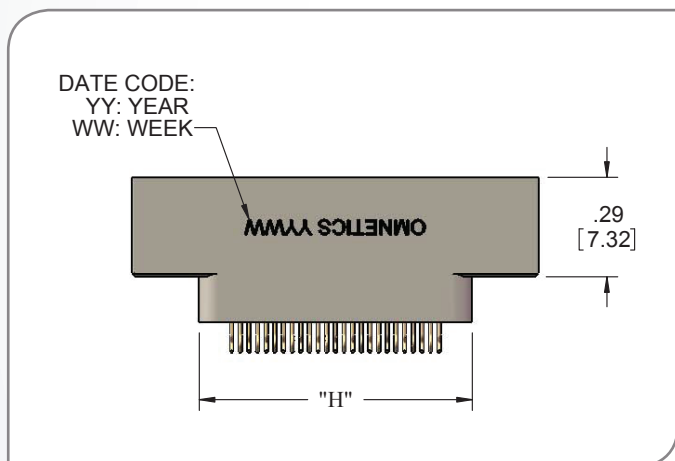
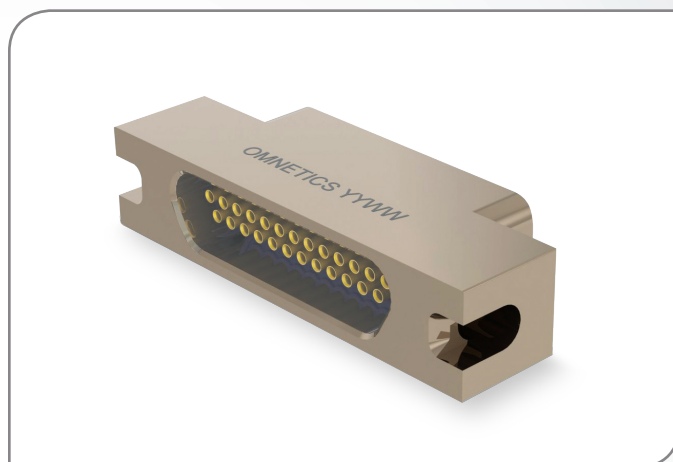
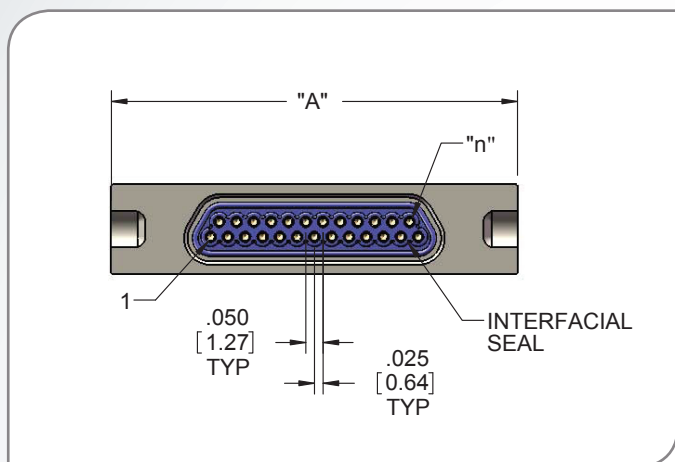
■ Shell Options

■ 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

Micro-D

Latching Micro-D

■ Latching Micro-D Female Flex Tail (TYPE FF)



■ Contacts

■ English (IN)

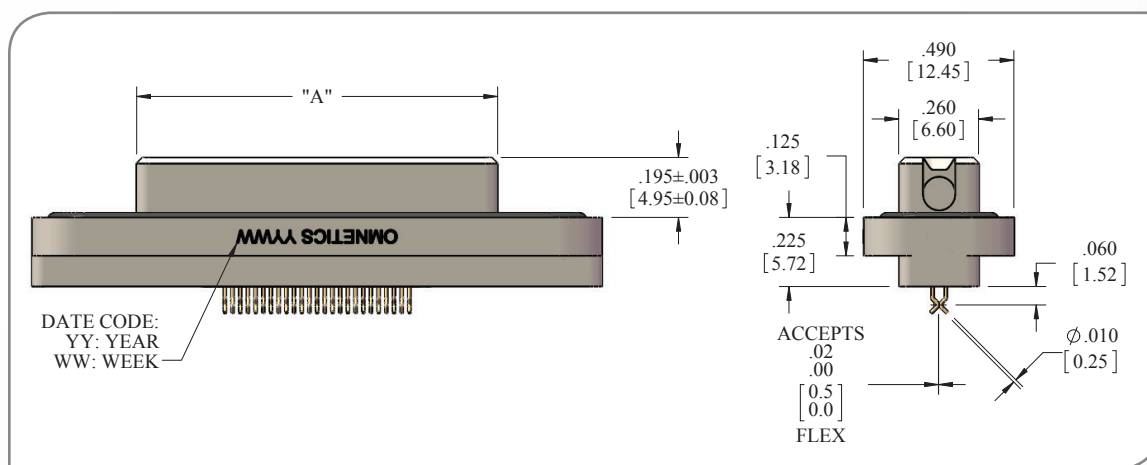
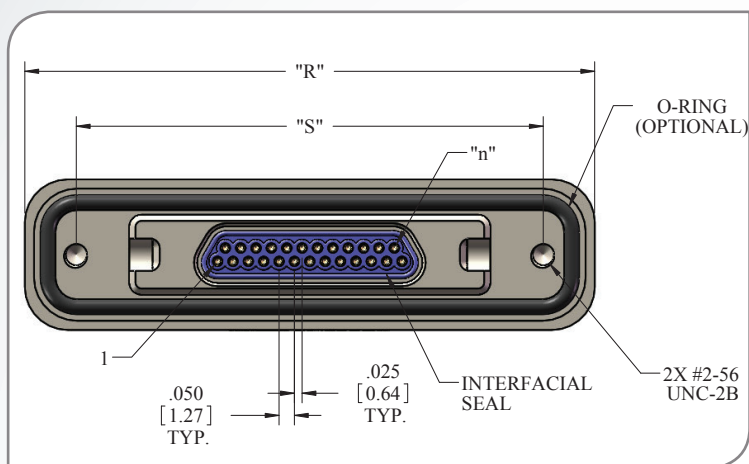
■ Metric (mm)

"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

Micro-D

Latching Micro-D

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



■ Contacts

■ English (IN)

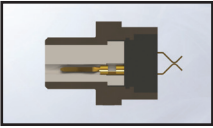
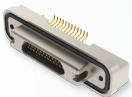
■ Metric (mm)

"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

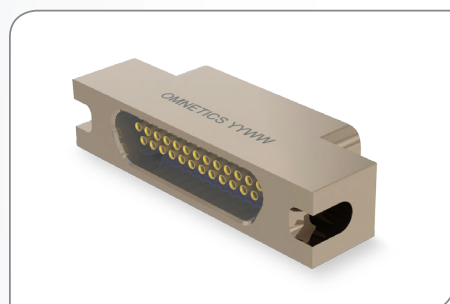
Micro-D

Latching Micro-D

■ Latching Micro-D Flex Tail (TYPE FF)

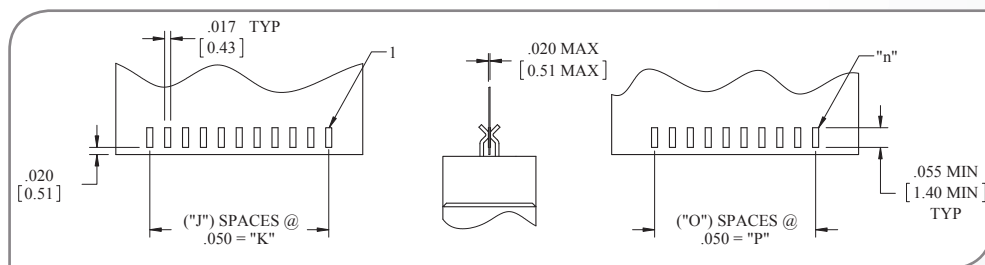
Series	# of Contacts	Shell Material and Finish / Hardware	Termination Type	Options
■ LMD S-Socket	009 015 021 025 031 037 512 (Two Row 051)	 N (STD) Aluminum Shell, Electroless Nickel Plated  C Aluminum Shell, Cadmium Plated  B Aluminum Shell, Black Anodized  P Stainless Steel Shell, Passivated	FF - Flex Tail 	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)

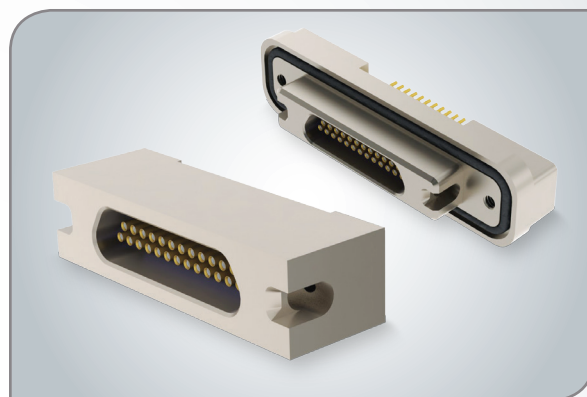
■ Metric (mm)

"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

■ 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 discontinuities > 1 microsecond
■ Vibration:	20 g's with no discontinuities > 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

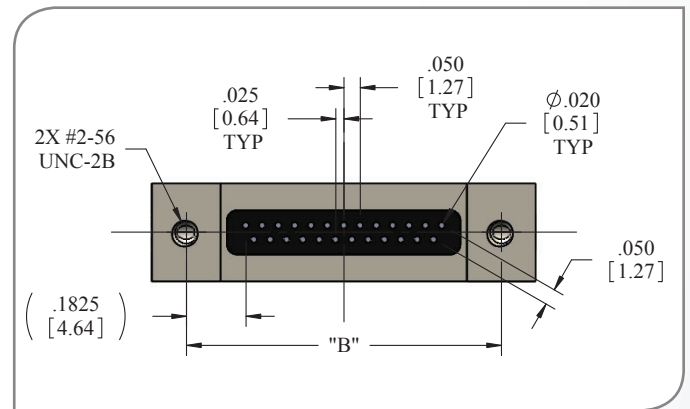
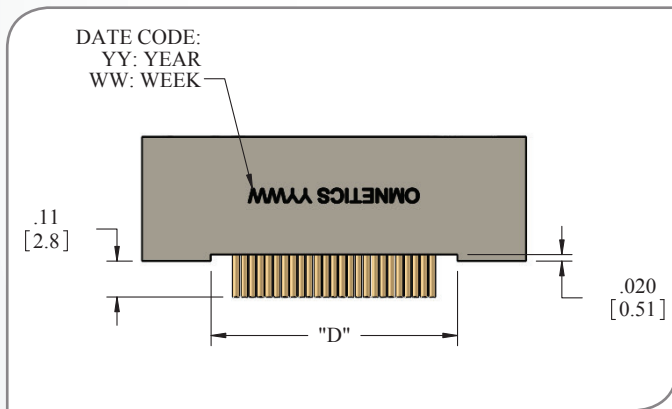
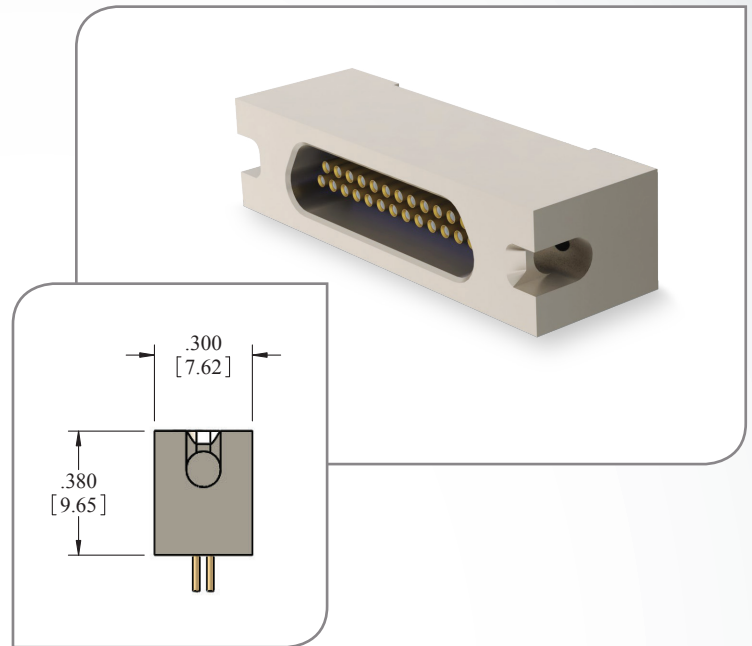
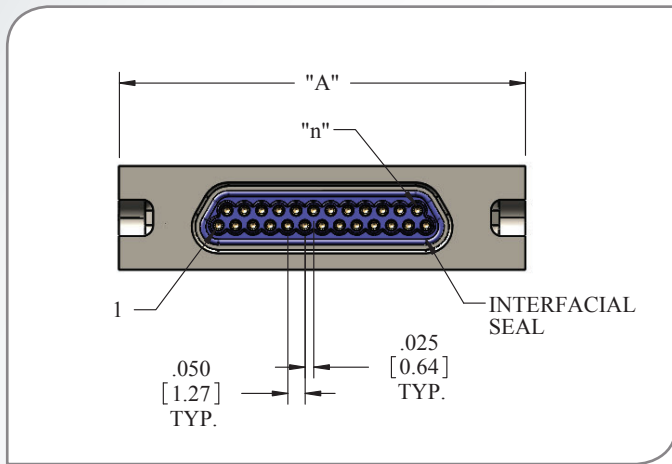
■ Shell Options

■ 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

Micro-D

Latching Micro-D

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



67

■ Contacts

■ English (IN)

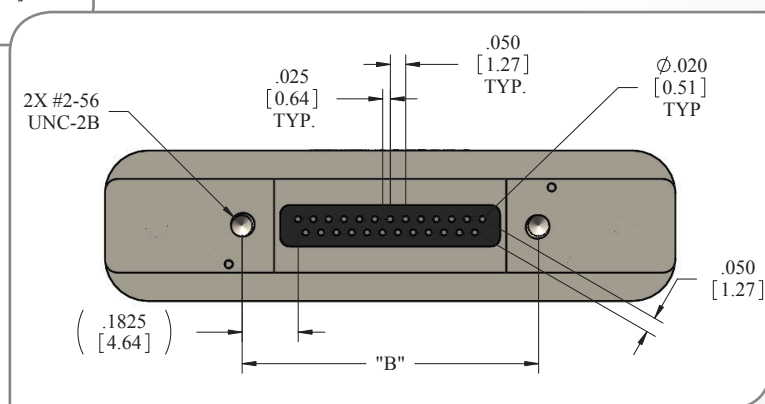
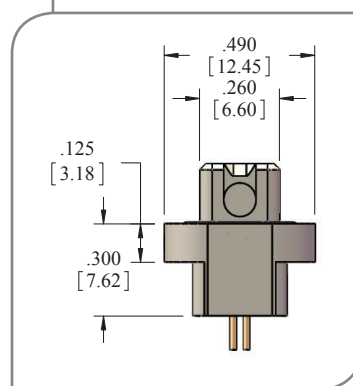
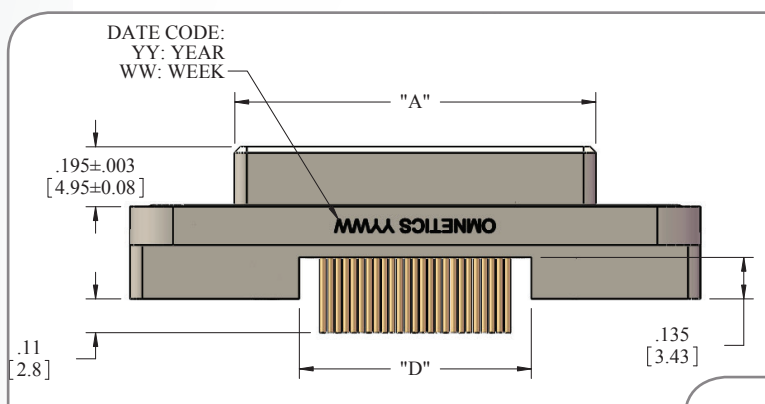
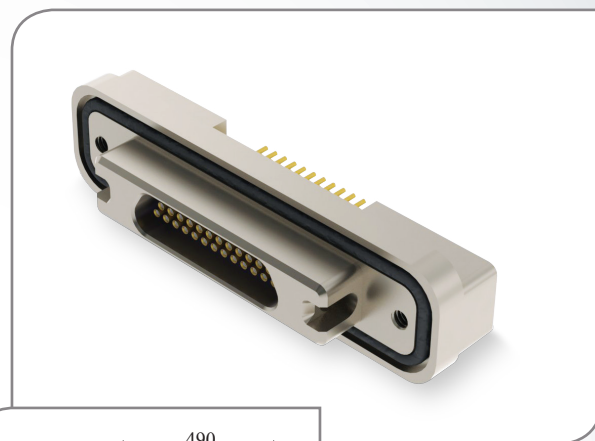
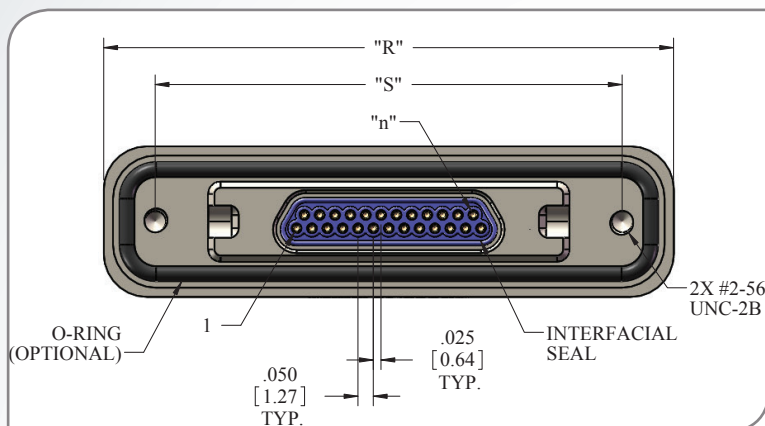
■ Metric (mm)

	"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

Micro-D

Latching Micro-D

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



■ Contacts

■ English (IN)

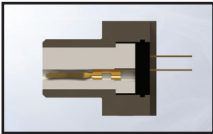
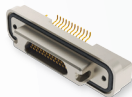
■ Metric (mm)

"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

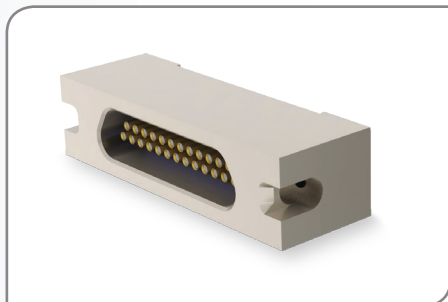
Micro-D

Latching Micro-D

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

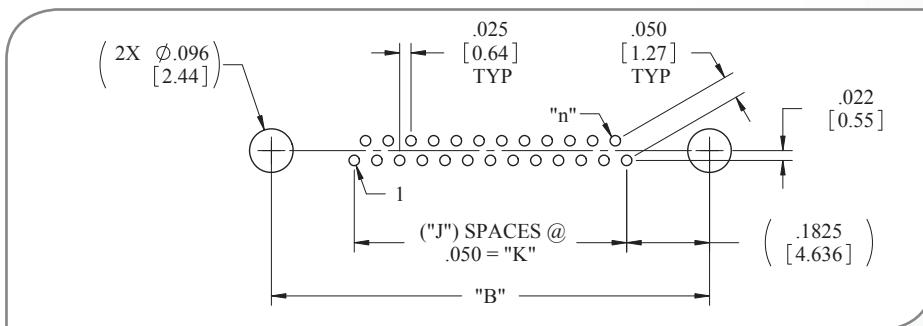
Series	# of Contacts	Shell Material and Finish / Hardware	Termination Type	Options
■ LMD S-Socket	009 015 021 025 031 037 512 (Two Row 051)	 N (STD) Aluminum Shell, Electroless Nickel Plated  C Aluminum Shell, Cadmium Plated  B Aluminum Shell, Black Anodized  P Stainless Steel Shell, Passivated	S2 -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

Example



LMDS-025-N51-S2

51- Latch Receptacle



■ Contacts

■ English (IN)

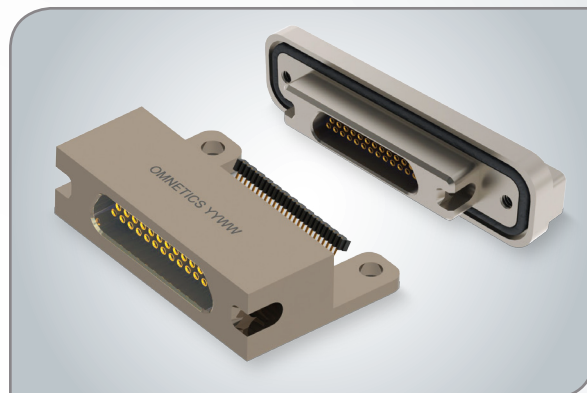
■ Metric (mm)

"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

■ 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 discontinuities > 1 microsecond
■ Vibration:	20 g's with no discontinuities > 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

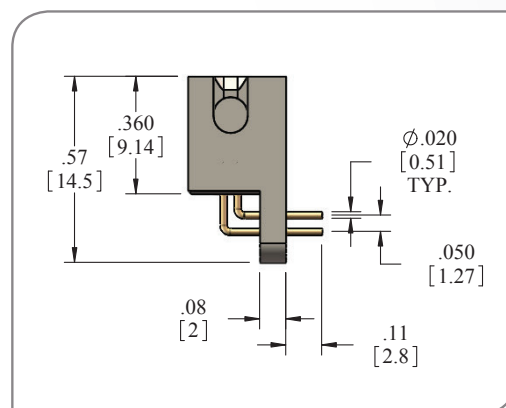
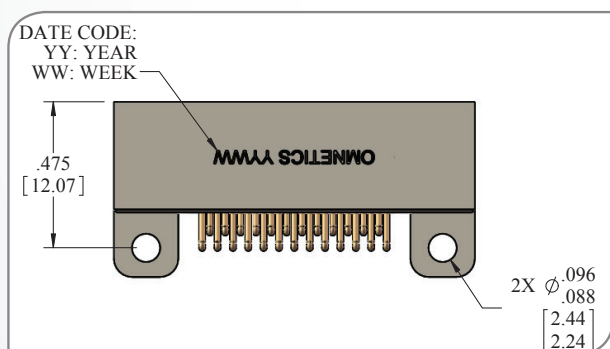
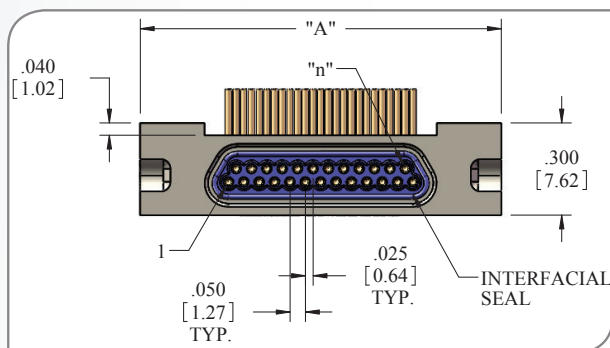
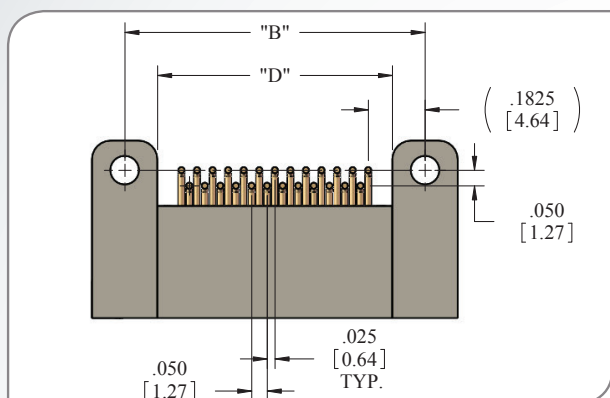
■ Shell Options

■ 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

Micro-D

Latching Micro-D

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



■ Contacts

■ English (IN)

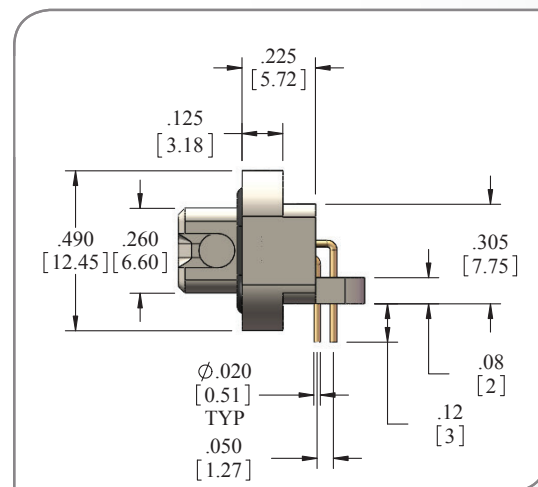
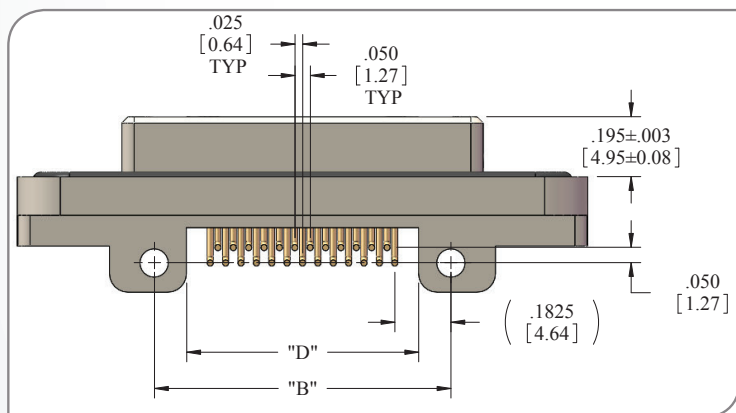
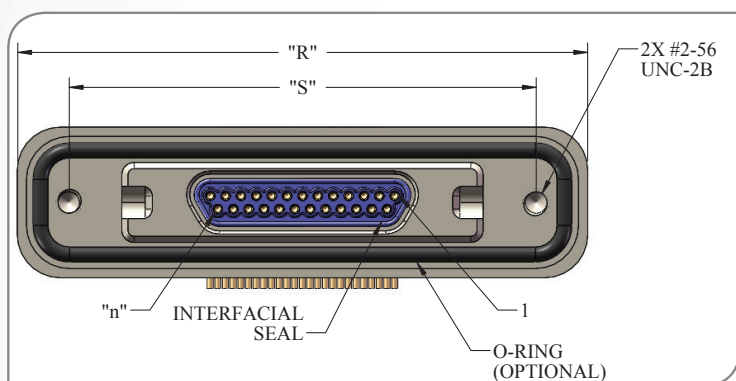
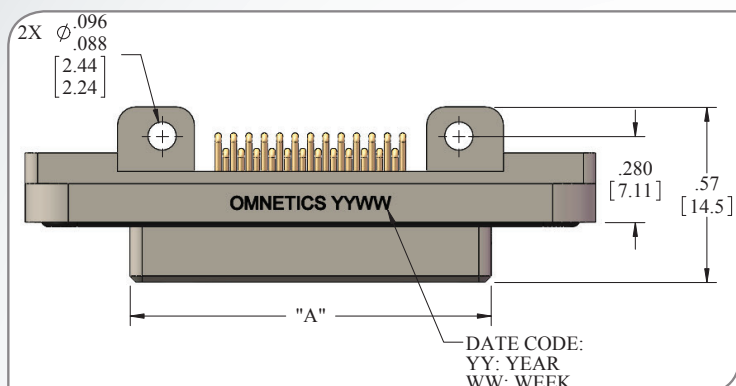
■ Metric (mm)

	"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

Micro-D

Latching Micro-D

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



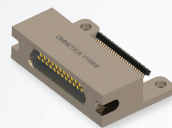
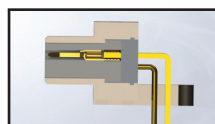
► Contacts

► English (IN)

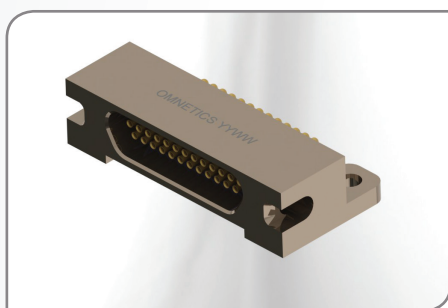
► Metric (mm)

"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

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

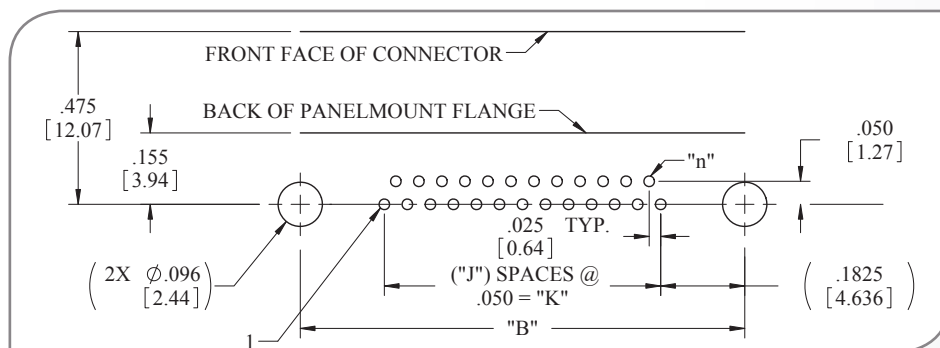
Series	# of Contacts	Shell Material and Finish / Hardware	Termination Type	Options
■ LMD S-Socket 	009	 N (STD) Aluminum Shell, Electroless Nickel Plated	R2 - Right Angle Thru-Hole 	HTE High Temp. Epoxy 
	015			
	021			
	025	 C Aluminum Shell, Cadmium Plated		RH RoHS COMPLIANT 
	031			
	037			
	512 (Two Row 051)	 B Aluminum Shell, Black Anodized		PA Panel Mount, Rear, O-Ring 
Options: 001-051	 P Stainless Steel Shell, Passivated			

Example



LMDS-025-N51-R2-HT-RH

51- Latch Receptacle



▀ Contacts

▀ English (IN)

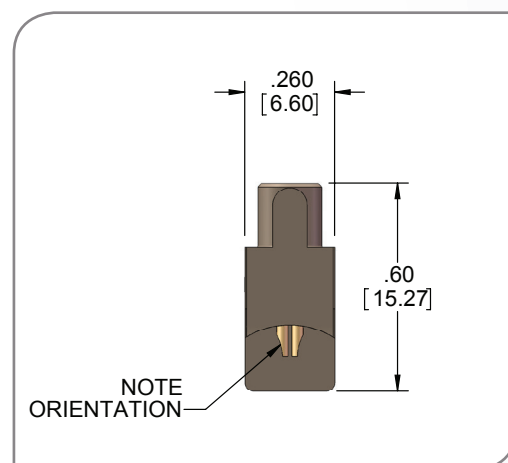
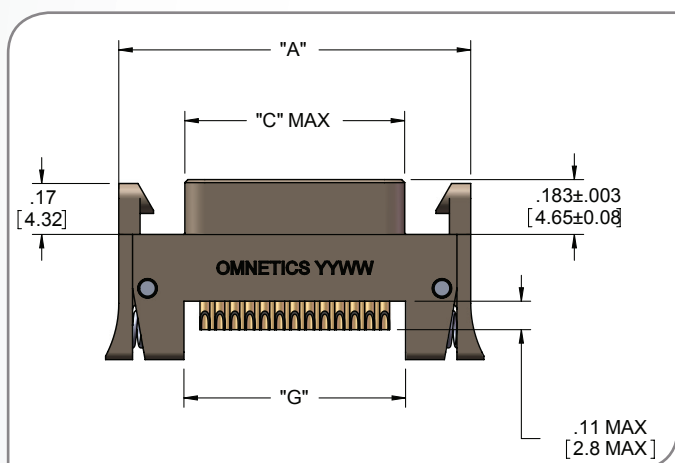
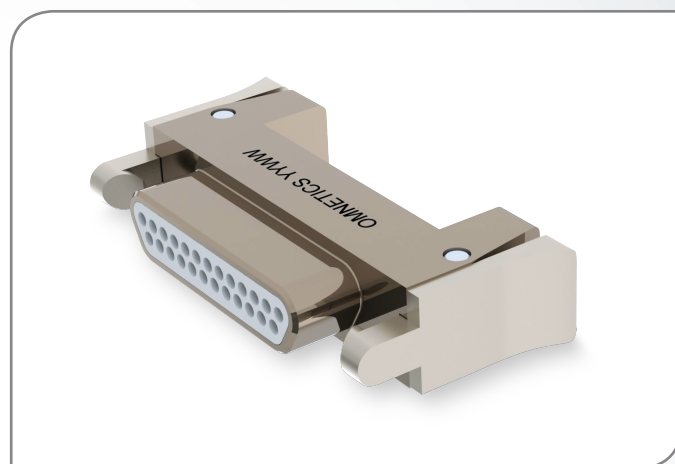
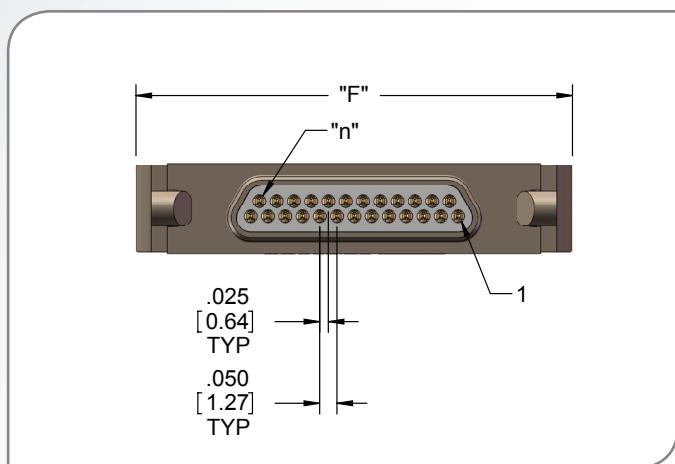
▀ Metric (mm)

"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

Micro-D

Latching Micro-D

■ Latching Micro-D Male Solder Cup (TYPE SS)



■ Contacts

■ English (IN)

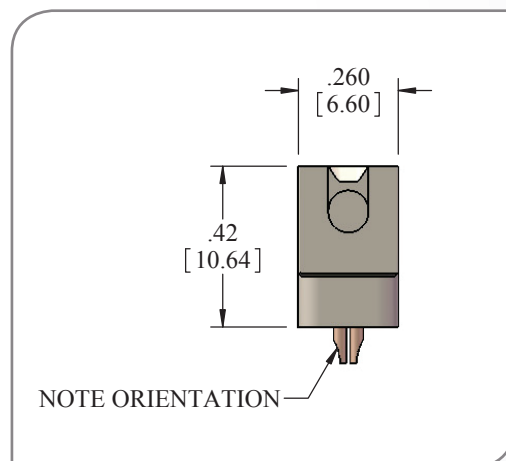
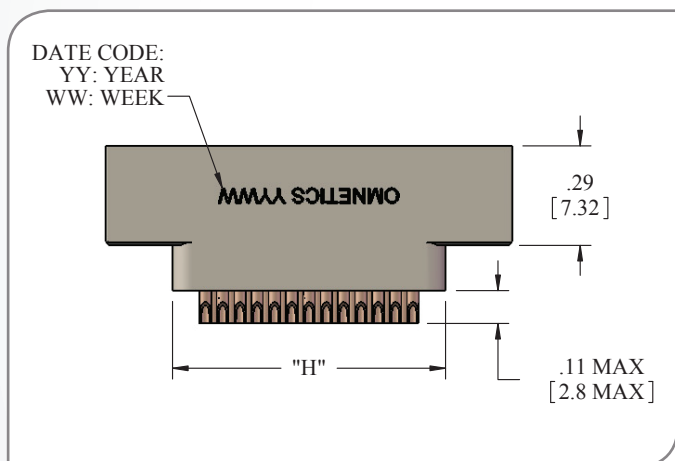
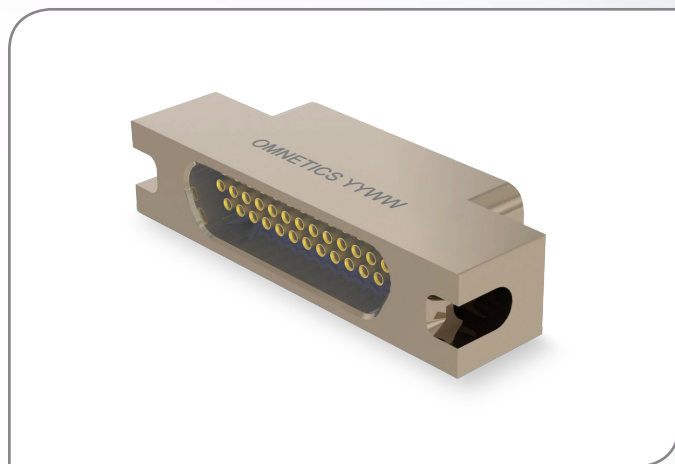
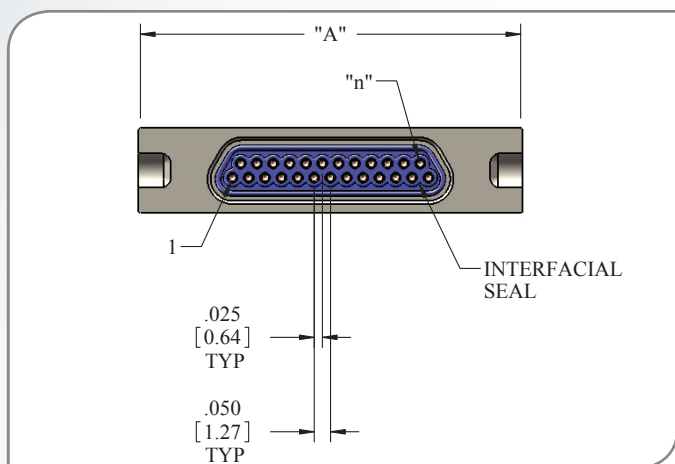
■ Metric (mm)

	"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

Micro-D

Latching Micro-D

■ Latching Micro-D Female Solder Cup (TYPE SS)



■ Contacts

■ English (IN)

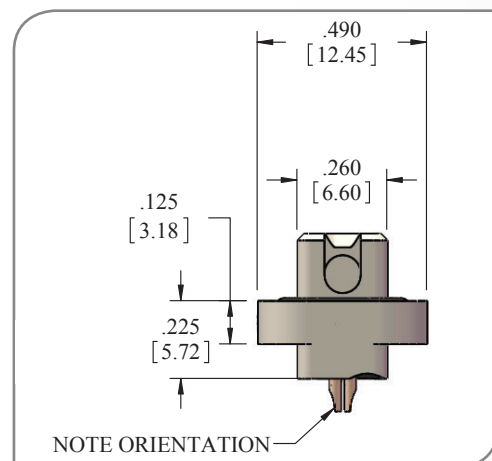
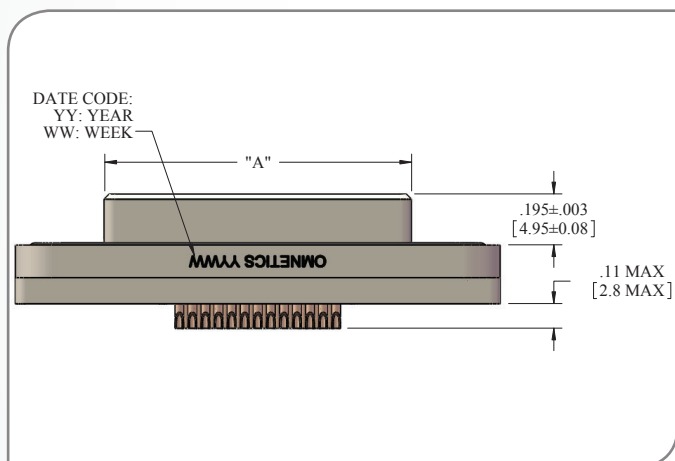
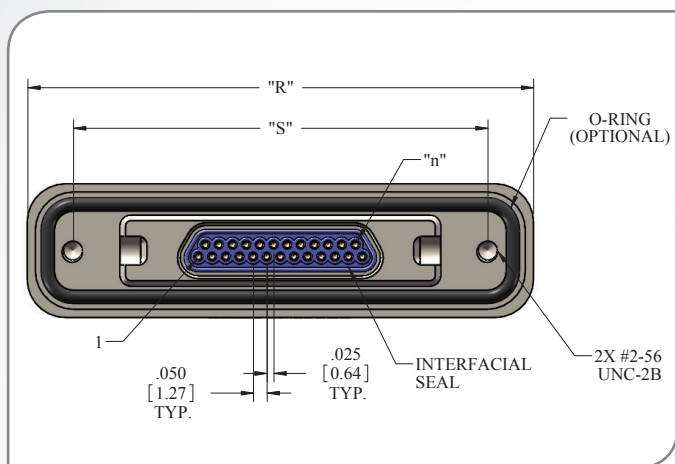
■ Metric (mm)

"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

Micro-D

Latching Micro-D

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



■ Contacts

■ English (IN)

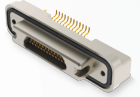
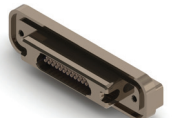
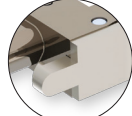
■ Metric (mm)

"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

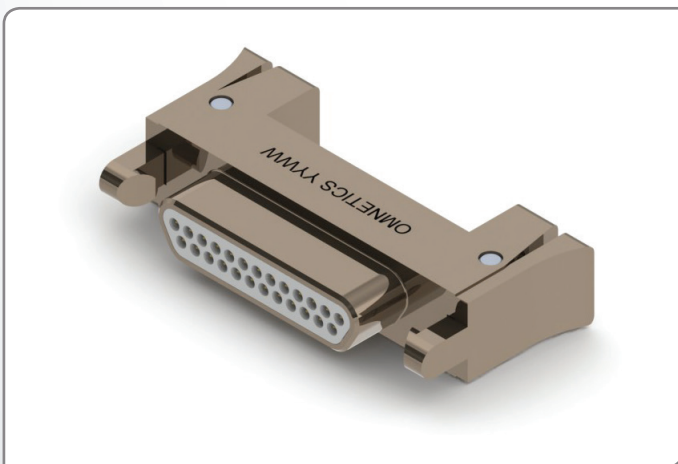
Micro-D

Latching Micro-D

■ Latching Micro-D Solder Cup (TYPE SS)

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

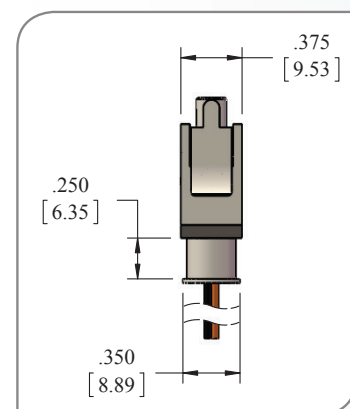
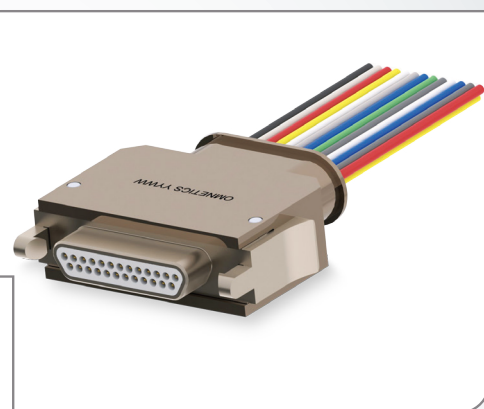
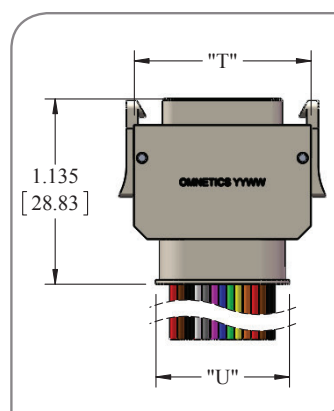
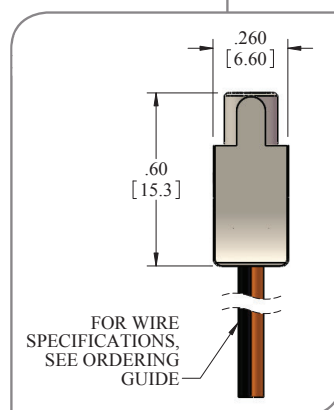
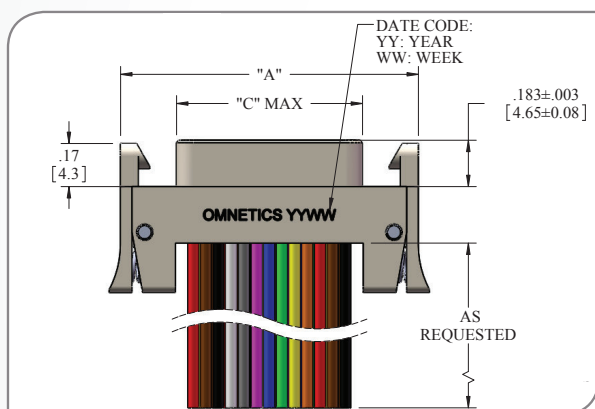
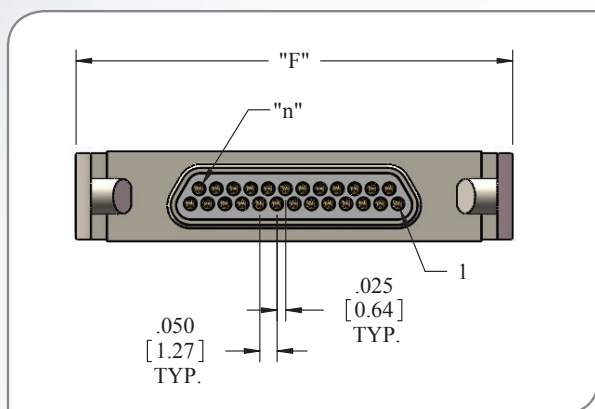


LMDS-025-N51-SS-HT-PA

Micro-D

Latching Micro-D

■ Latching Micro-D Male Discrete Leadwire (TYPE WD)



*Shown with optional backshell

■ Contacts

■ English (IN)

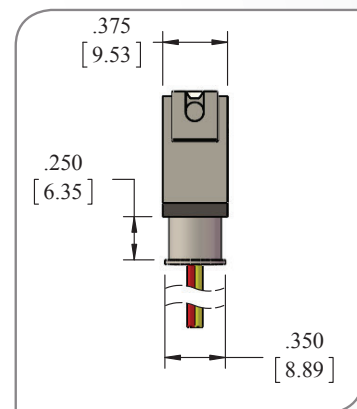
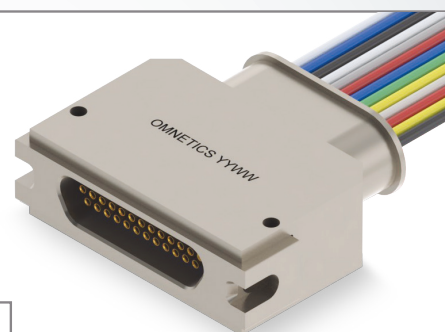
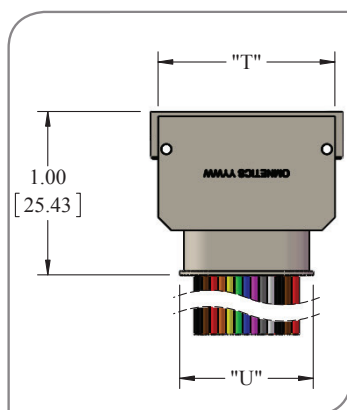
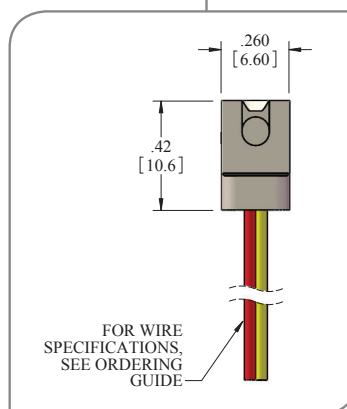
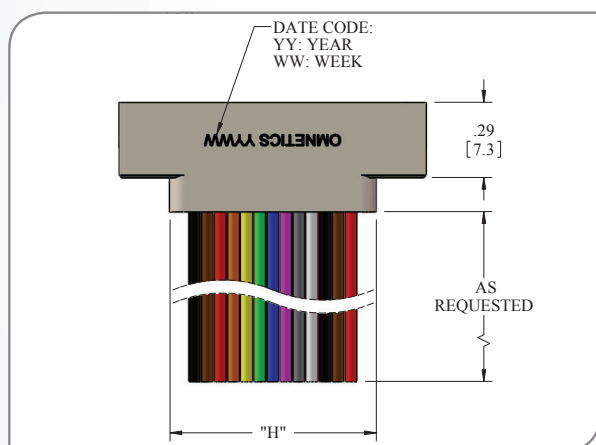
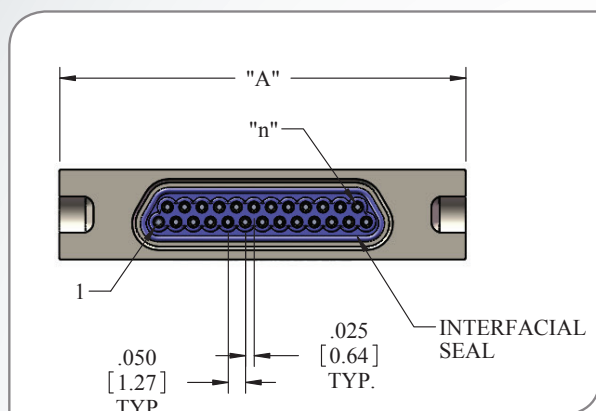
■ Metric (mm)

"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

Micro-D

Latching Micro-D

■ Latching Micro-D Female Discrete Leadwire (TYPE WD)



*Shown with optional backshell

■ Contacts

■ English (IN)

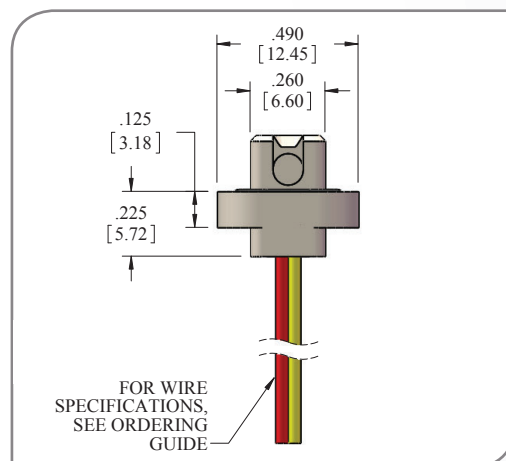
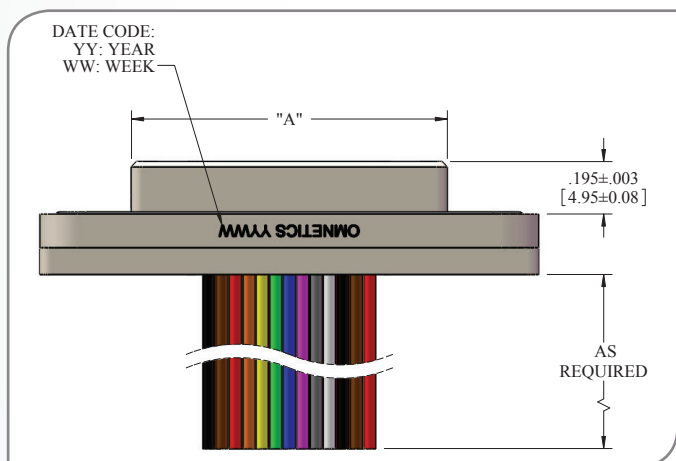
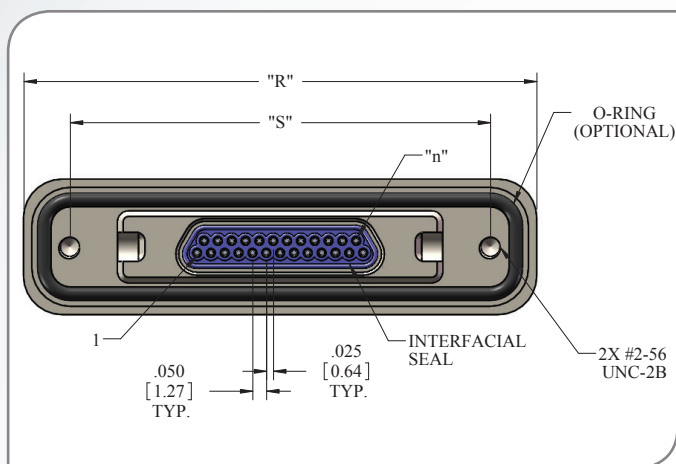
■ Metric (mm)

	"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

Micro-D

Latching Micro-D

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



■ Contacts

■ English (IN)

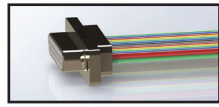
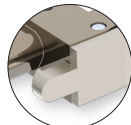
■ Metric (mm)

"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

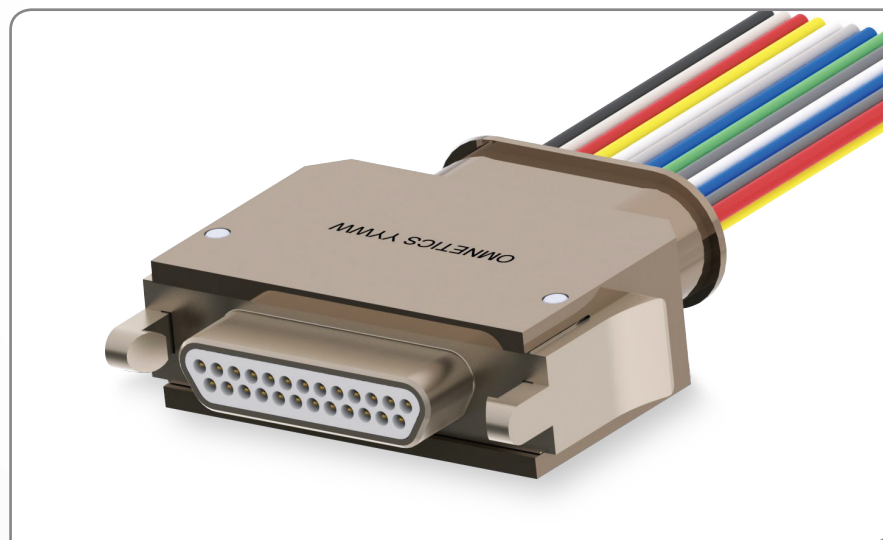
Micro-D

Latching Micro-D

■ Latching Micro-D Male Discrete Leadwire (TYPE WD)

Series	# of Contacts	Shell Material and Finish / Hardware	Termination Type	Options
LMD P-Pin 	009	N (STD) Aluminum Shell, Electroless Nickel Plated	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	HTE High Temp. Epoxy  RH RoHS COMPLIANT 
	015			
	021			
	025	C Aluminum Shell, Cadmium Plated		
	031			
	037	B Aluminum Shell, Black Anodized		
	512	P Stainless Steel Shell, Passivated		
(Two Row 051) Options: 001-051		50- Latch 	WIRE LENGTH: 18.0 - 18.00" (STD) XX.X - CUSTOM LENGTH COLOR SCHEME: 1 - 10 REPEATING (STD) 2 - BLUE 3 - WHITE 5 - YELLOW BS Backshell 	

Example

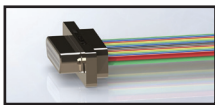


LMDP-025-N50-WD6Q18.0-1-HTE-BS

Micro-D

Latching Micro-D

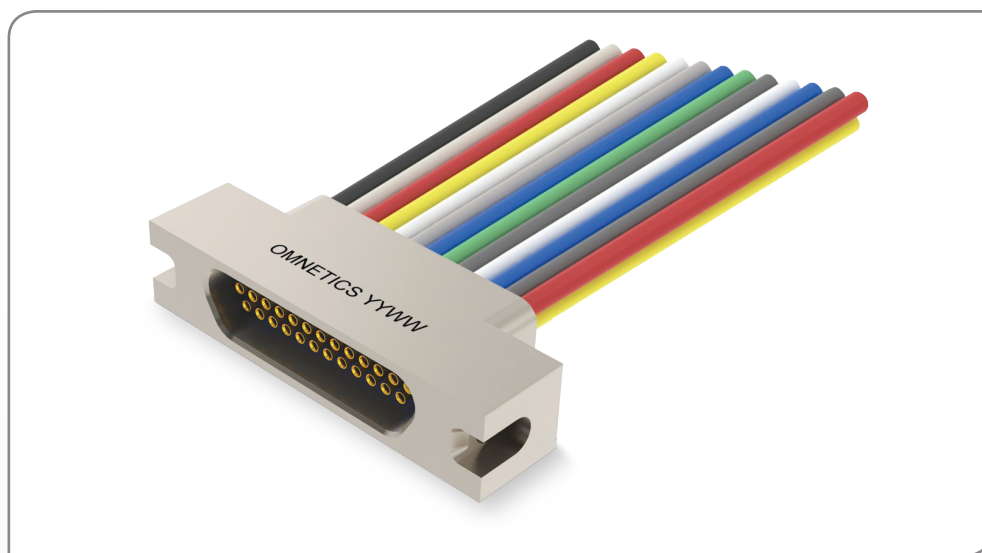
■ Latching Micro-D Female Discrete Leadwire (TYPE WD)

Series	# of Contacts	Shell Material and Finish / Hardware	Termination Type	Options
■ LMD	009	 N (STD)	WD - Discrete	HTE
S-Socket	015	Aluminum Shell,	Leadwire	High Temp.
	021	Electroless Nickel Plated		Epoxy 
	025	 C		
	031	Aluminum Shell,		RH
	037	Cadmium Plated		RoHS
	512	 B	WIRE AWG:	COMPLIANT 
(Two Row 051)		Aluminum Shell,	6 - 26 AWG (STD)	
Options:		Black Anodized	8 - 28 AWG	
001-051		 P	0 - 30 AWG	
		Stainless Steel Shell,	WIRE TYPE:	
		Passivated	Q - NEMA HP3	COLOR SCHEME:
			(FORMERLY	1 - 10 REPEATING
			M16878/4	(STD)
			&/6) (STD)	2 - BLUE
			R - M22759/11	3 - WHITE
			S - M22759/33	5 - YELLOW

51- Latch Receptacle



Example



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



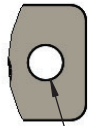
PB
Panel Mount,
Rear



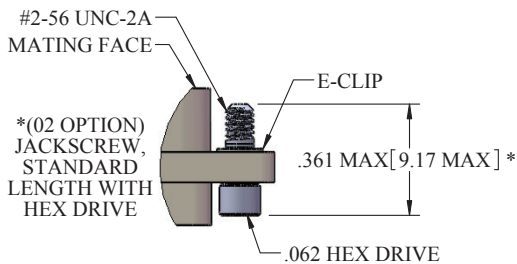
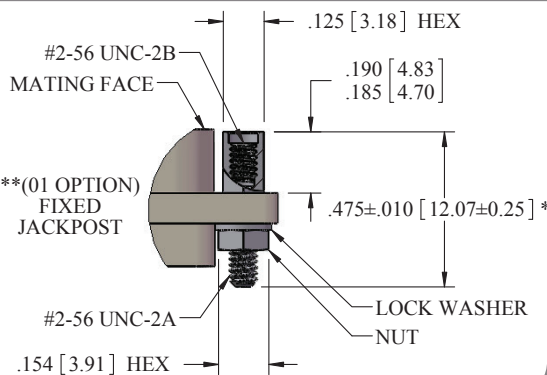
BS
Backshell

Hardware Selection

(00 OPTION)
NO HARDWARE

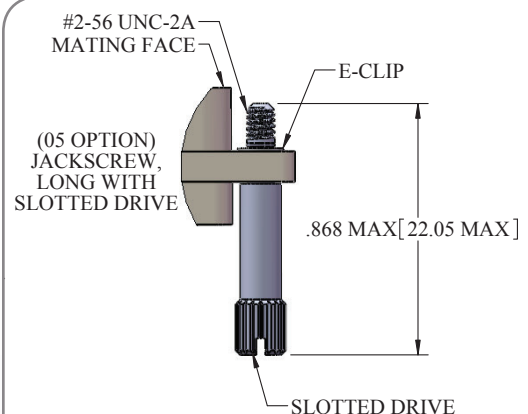
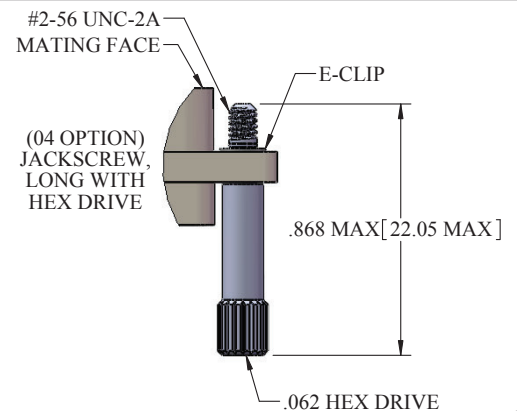
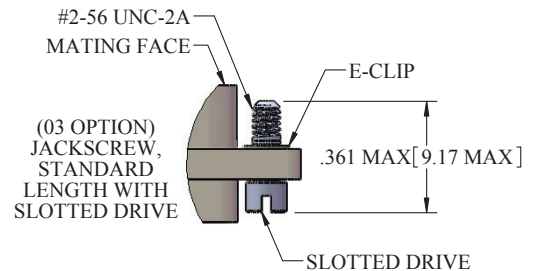
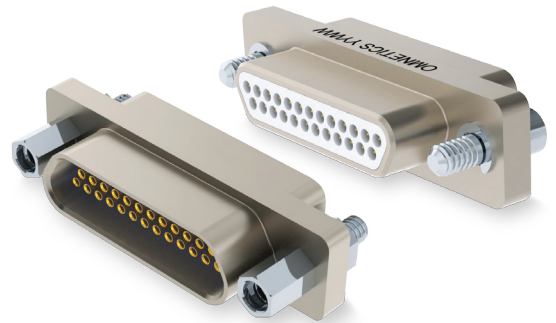


$\phi .096 [2.44]$
 $\phi .088 [2.24]$

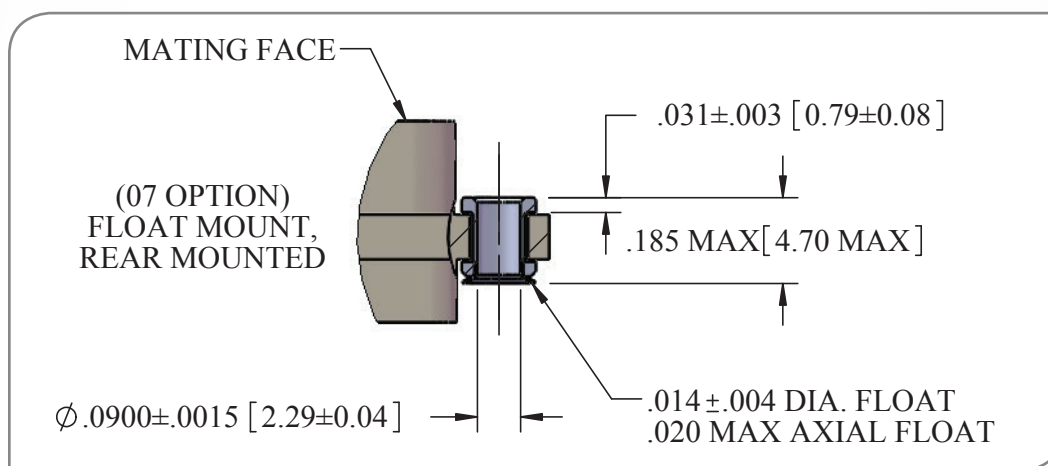
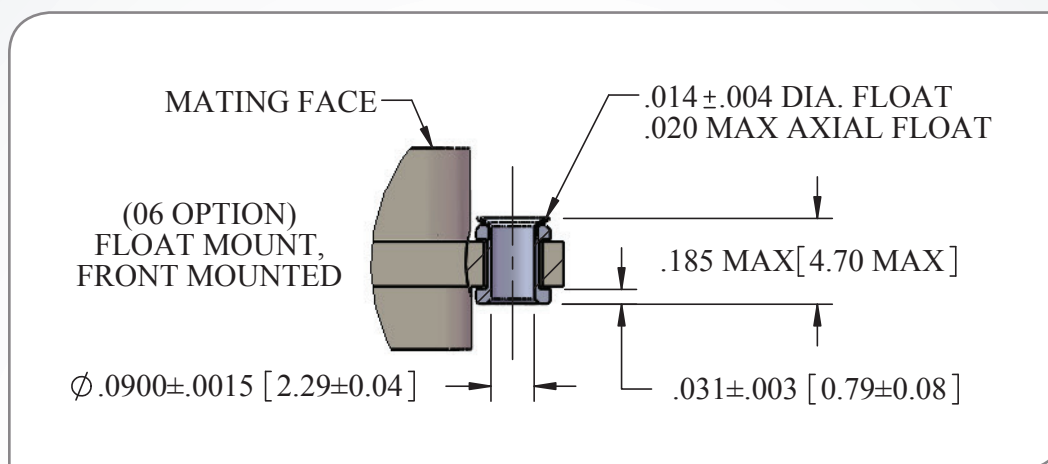


*FOR ALL TYPES EXCEPT HORIZONTAL SURFACE MOUNT (H0).
OVERALL LENGTH FOR STANDARD H0 JACKSCREW IS .485 [12.32] MAX.

**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.



Hardware Selection Cont...



TO ORDER LOOSE HARDWARE SEPARATELY, USE OMNETICS PART NUMBERS BELOW

Kit Description

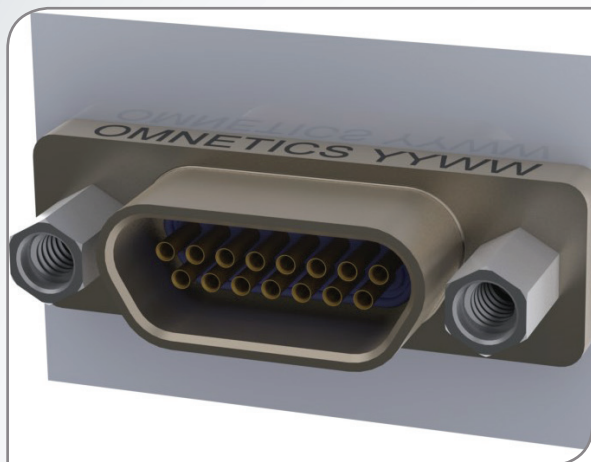
Omnetics Part # Hardware Code (Ref)

■ 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.

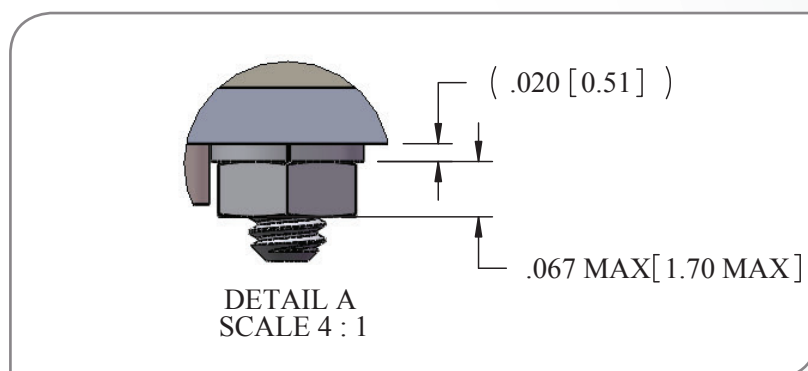
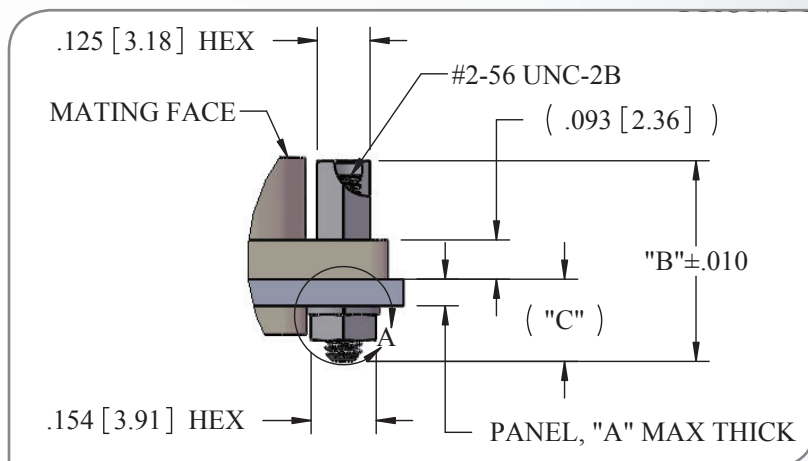
**FOR ALL TYPES EXCEPT S2 AND R2. OVERALL LENGTH FOR STANDARD S2 JACKPOST IS .560 [14.22] MAX AND .385 [9.78] MAX FOR R2.

Panel Mount Hardware Selection



FRONT MOUNT

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



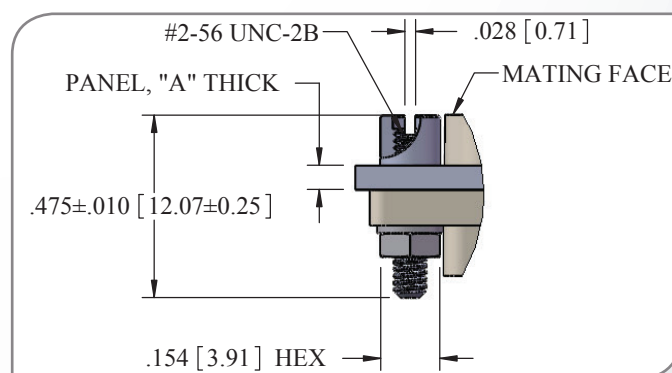
REAR MOUNT

English (IN) Metric (mm) Omnetics Part

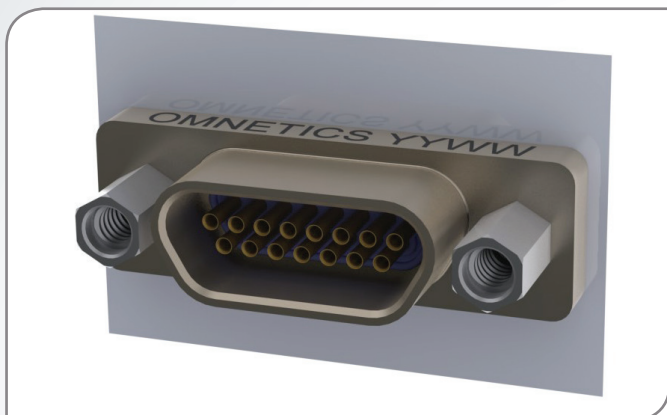
"A"	"B"	"C"	"A"	"B"	"C"	Omnetics Part #
.05	.475	.195	1.3	12.07	4.94	A 97006-001
.13	.550	.270	3.2	13.97	6.85	A 97006-002

English (IN) Metric (mm) Omnetics Part

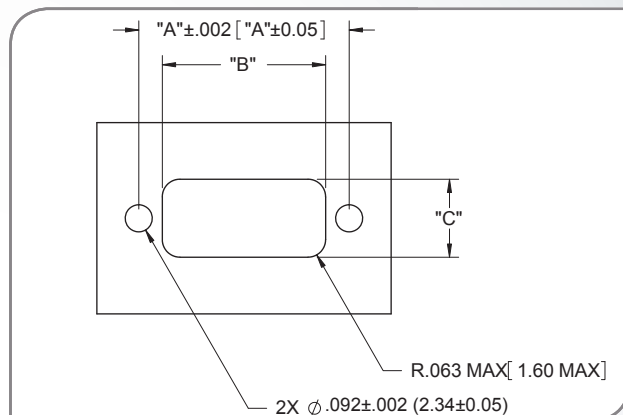
"A"	"A"	Omnetics Part #
.031	0.79	A 97006-101
.063	1.60	A 97006-102
.094	2.39	A 97006-103



Panel Mount Cut Out



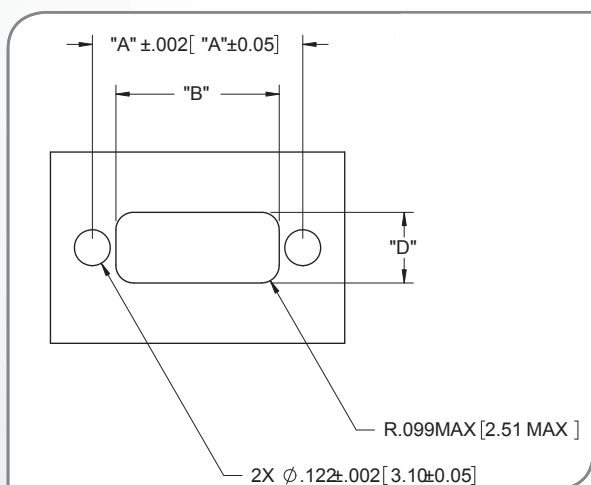
FRONT MOUNTED



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

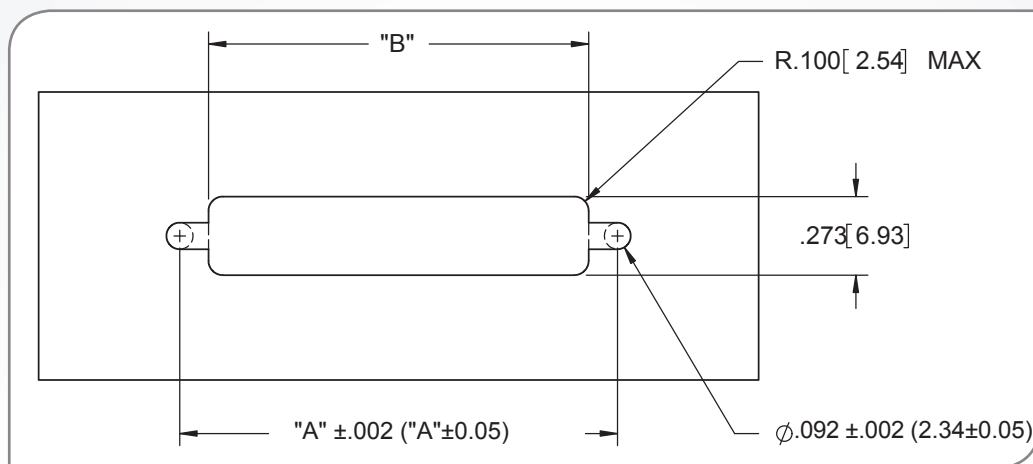
REAR MOUNTED



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

■ Latching Panel Mount Cut Out

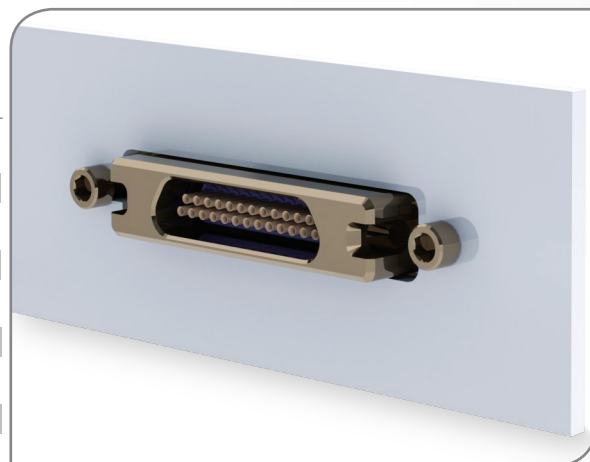


■ Contacts

■ 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)

5/64" HEX



Ø.14 [3.56]

■ 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.

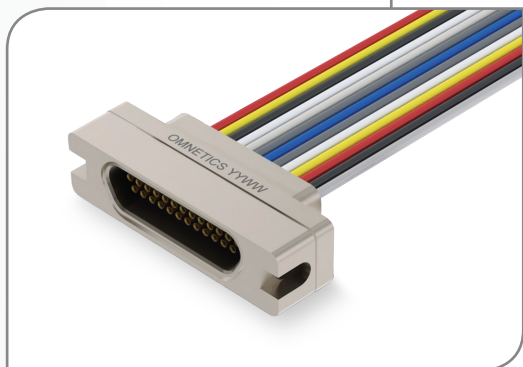
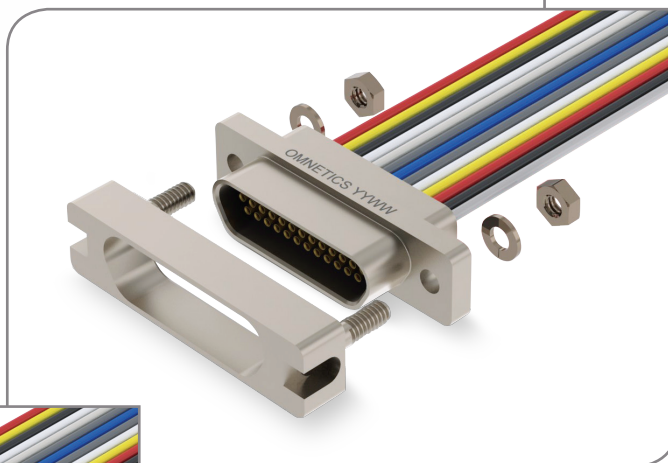
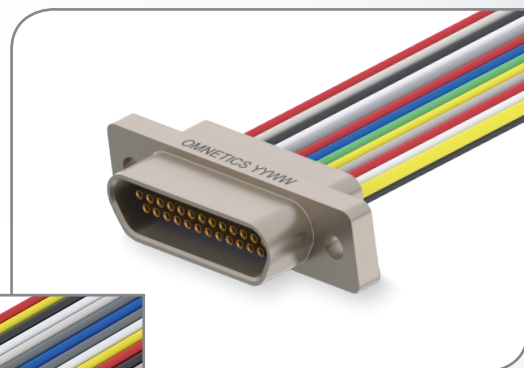
Micro-D

Accessories & Misc

■ '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

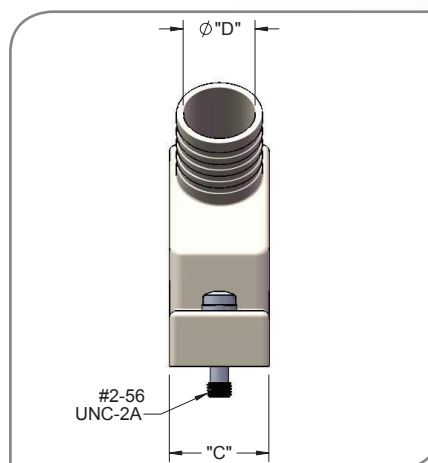
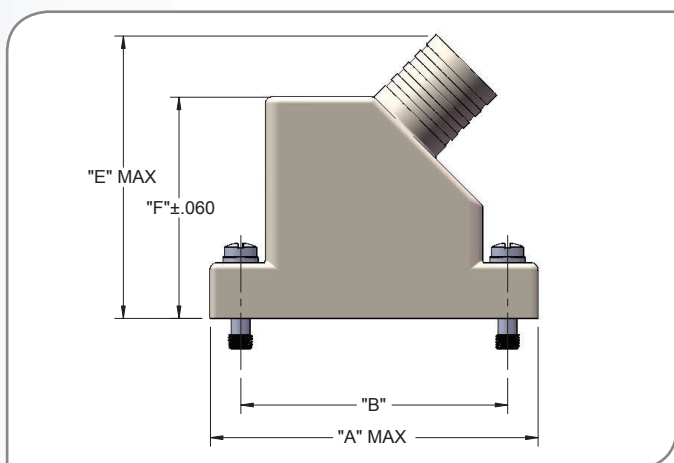
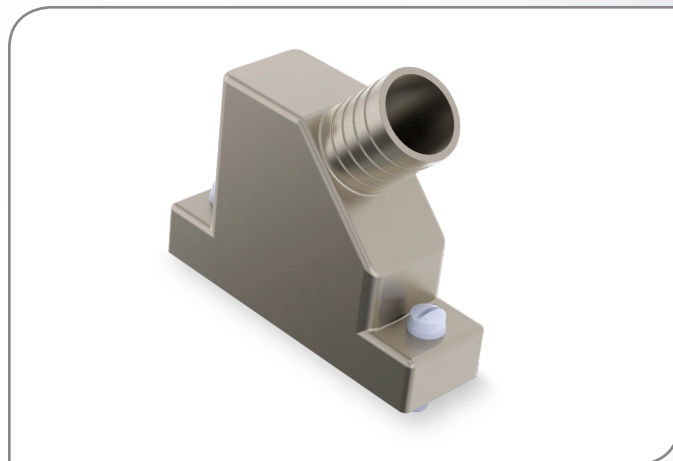
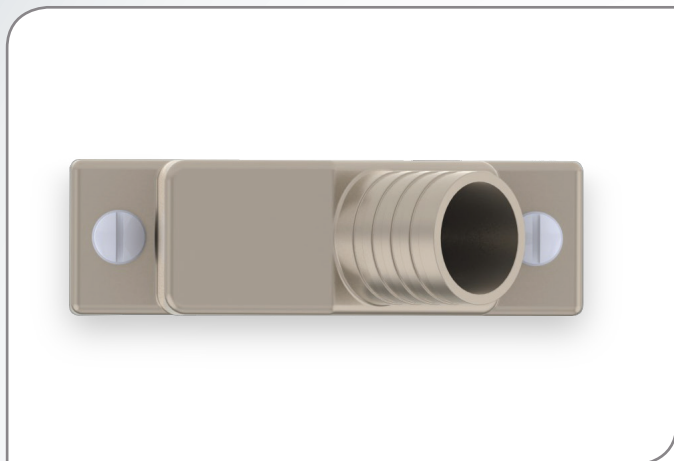
■ Omnetics Part No.

■	"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

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

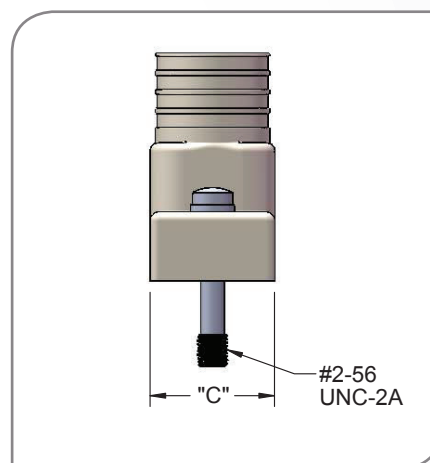
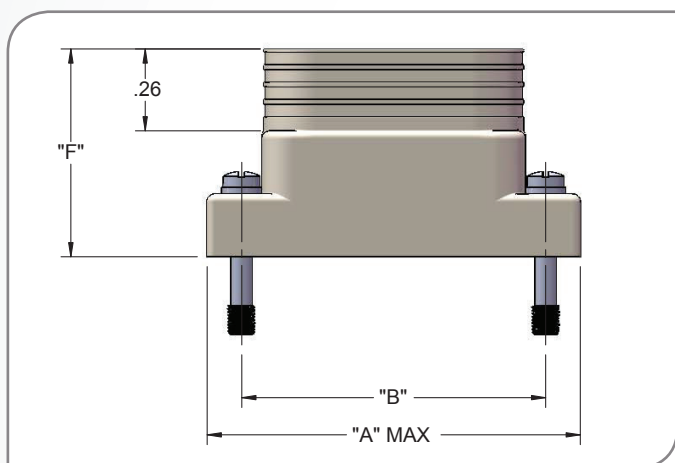
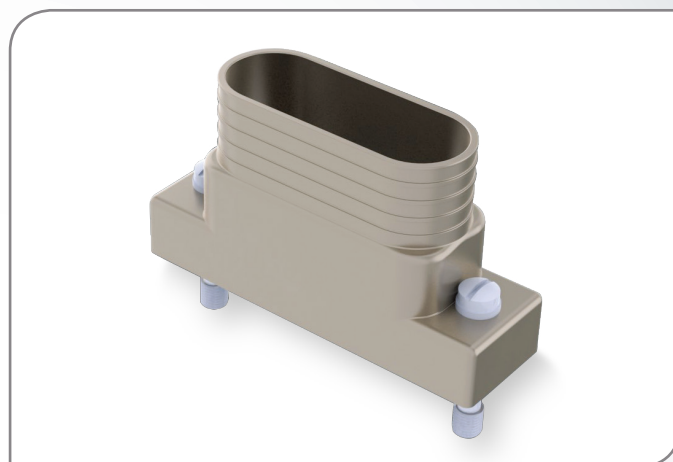
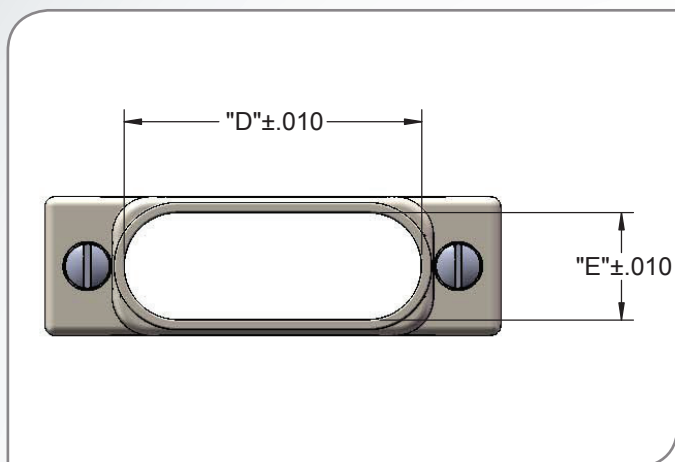
English (IN)

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

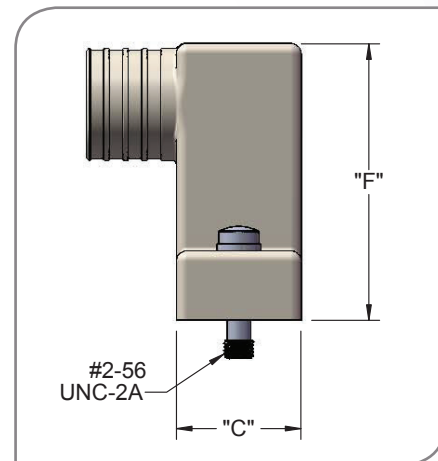
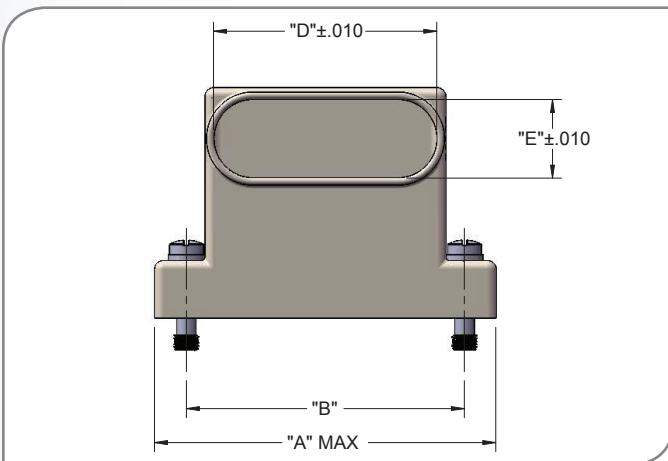
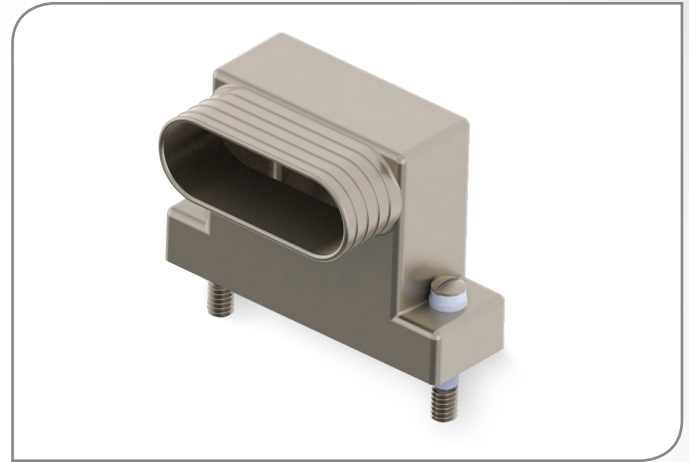
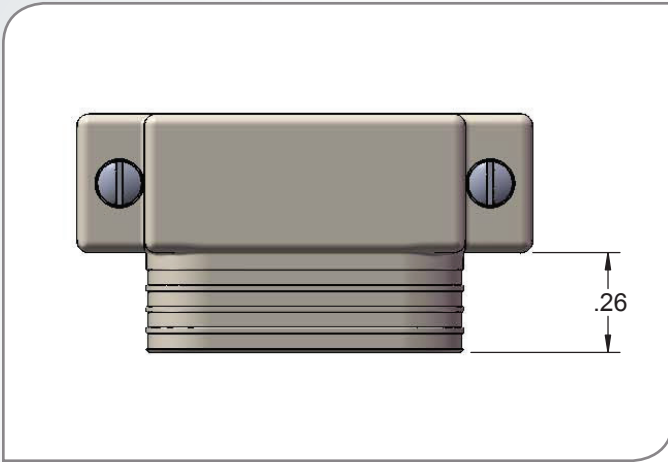
▀ English (IN)

▀ 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

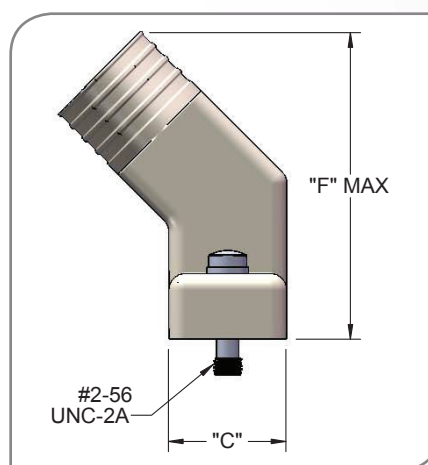
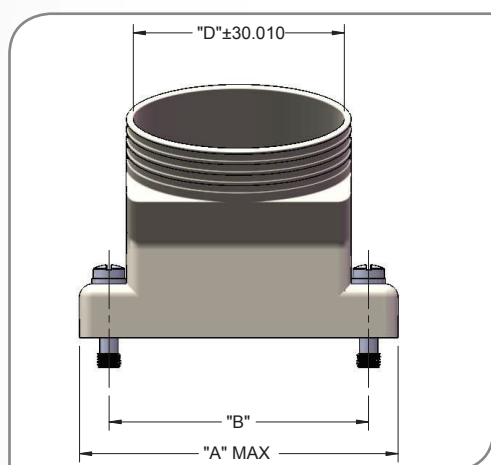
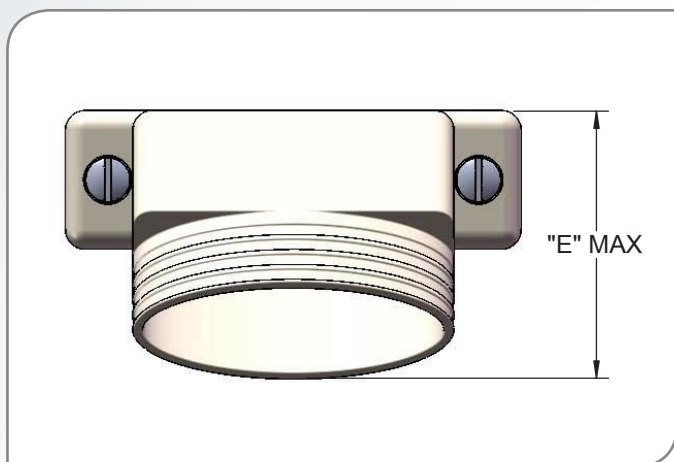
English (IN)

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

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

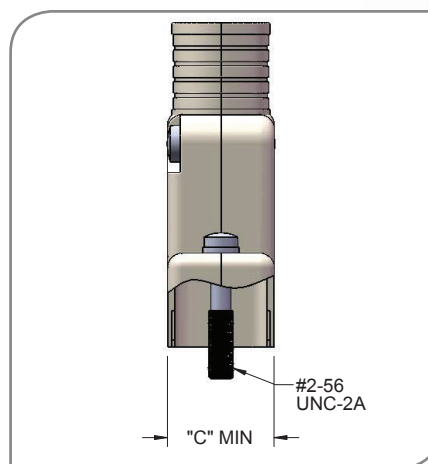
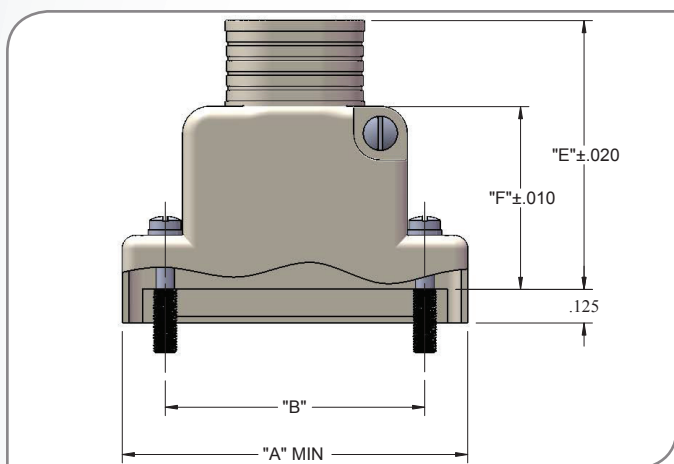
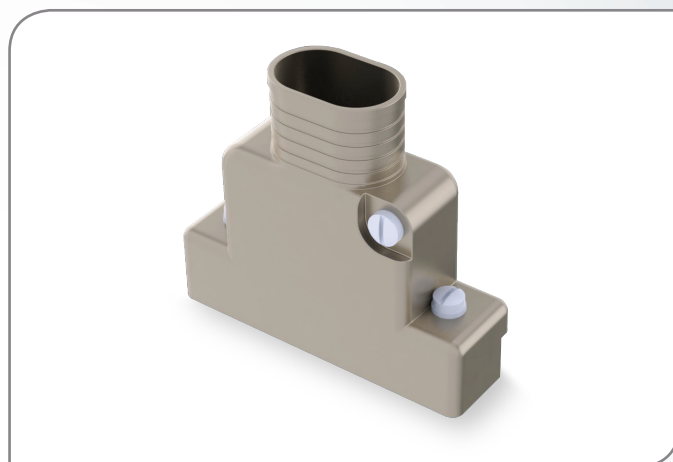
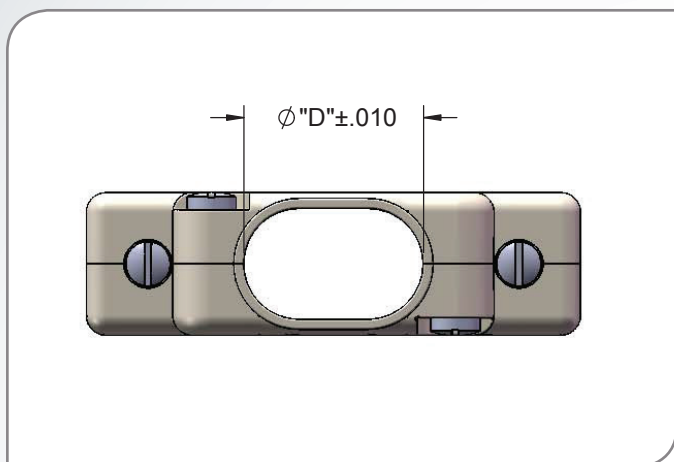
English (IN)

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

■ 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

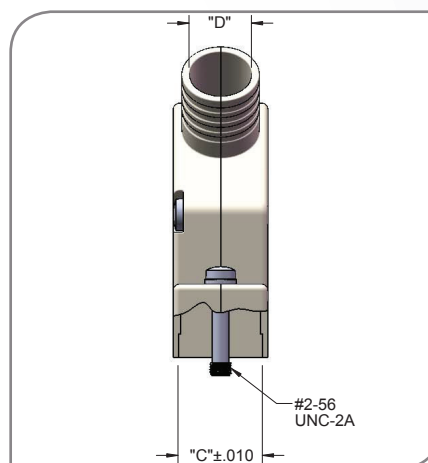
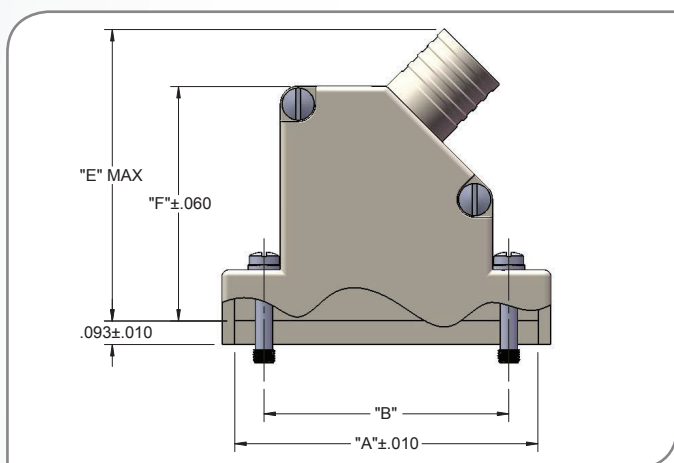
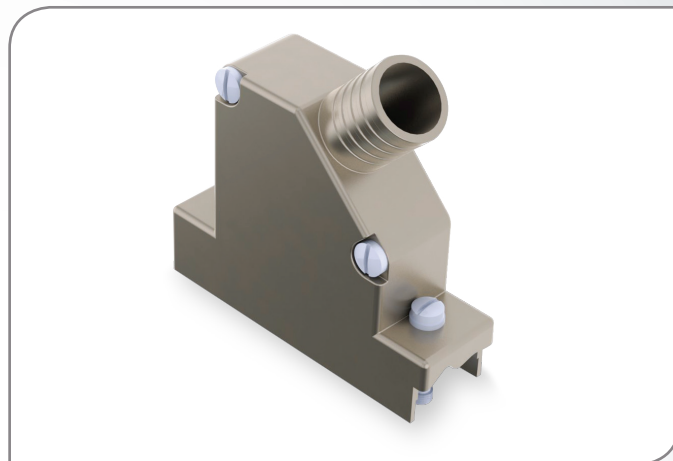
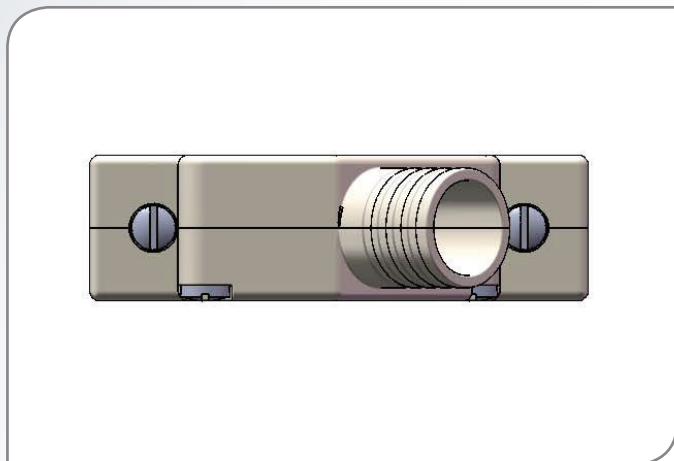
■ English (IN)

■ 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

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

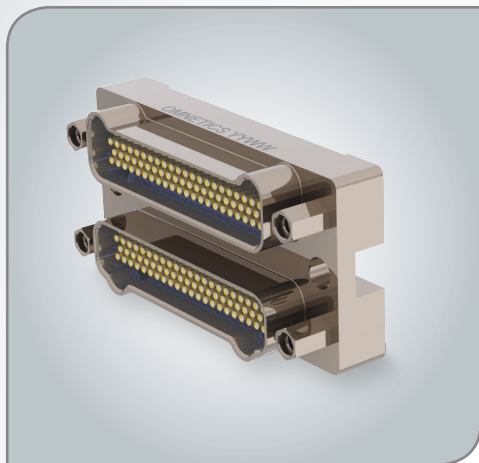
English (IN)

Metric (mm)

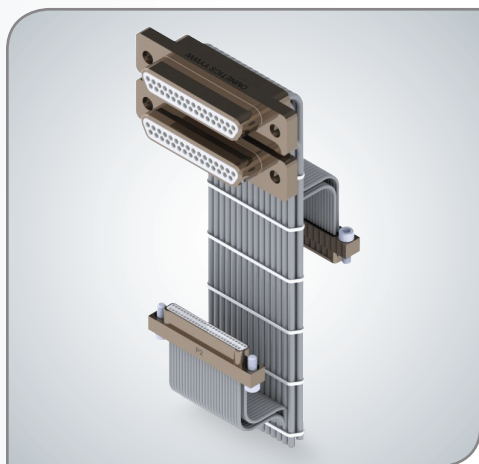
Omnetics

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

■ Didn't Find What You Were Looking For?



OMNETICS PROVIDES A WIDE RANGE OF CAPABILITIES TO DESIGN AND CREATE CONNECTORS THAT FIT YOUR INDIVIDUAL NEEDS.

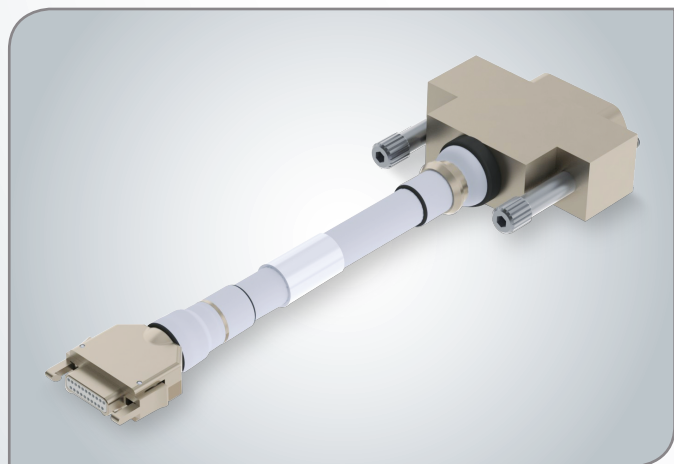


CUSTOM HOUSINGS
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SEALING
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MICRO-D TO ANY
STYLE CONNECTOR
MULTI-CONNECTOR
HARNESSING



CUSTOM BACKSHELLS

CUSTOM OVERMOLDS



Micro-D

Notes





“Off The Shelf” because some projects just can’t wait 8 weeks

- Sizes are 9, 15, 21, 25, 31, 37 & 51 pin, at .050 Mil. Pitch (currently Available)
- Mating Pin & Socket models available
- All sizes with 18” pre-wired leads (Male & Female)
- Wiring is Color Coded IAW MIL-STD-681, System 1, using ten solid repeating colors
- All sizes Horizontal Surface Mount (Female)
- All sizes Flex-Circuit Mount (Male)
- All sizes Vertical Surface Mount (Female)
- Shells are factory installed

To view different configurations or find your local representative, visit us at www.omnetics.com

■ Specifications subject to change without notice

- Omnetics Connector Corporation is a worldwide designer and manufacturer of Micro and Nano miniature interconnect products, featuring COTS, Standards and Custom connectors for industries such as the Military, Aerospace, Defense, Medical and other Technology oriented OEMS.

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