OMNETICS CONNECTOR CORPORATION









MICRO & NANO STRIP CONNECTORS

Micro .050" (1.27mm) & Nano .025" (.64mm) Catalog





ABOUT OMNETICS CONNECTOR CORPORATION

Omnetics Connector Corporation is a leading global provider of precision and high-reliability electronic connectors and interconnect systems. For more than 30 years, we have engineered an extensive portfolio of innovative products, with a special focus on micro-miniature and nano-miniature interconnects. With over 300 direct employees, all products are built in the Minnesota factory in compliance with ISO 9001 offering QPL products to MIL-DTL-83513 and MIL-DTL-32139 and are ITAR registered.

Our connectors are among the smallest on the market and deliver exceptional performance in challenging work environments. As interconnect technologies continue to evolve, we design next-generation products that help bring transformative ideas to life.

Our connectors are highly sought after by designers working in the military, aviation, aerospace, medical and other leading-edge industries. We are also leaders in high-mobility interconnects for applications in robotics, surveillance systems and orbital satellite technology.

Omnetics understands the rigorous operating conditions mission-critical applications endure and our solutions include EMI shielding, IP sealing, polarization, rugged materials, and other elements that ensure connectivity under pressure. We maintain a large inventory of COTs products.

Omnetics' range of nano, micro and hybrid connectors are ideal for defence programmes, where factors such as size, weight, signal integrity and reliability are thoroughly considered. We provide a variety of reduced size and weight interconnection systems:

- Micro and Nano strip connectors
- Micro and Nano circular connectors
- Bi-Lobe [®] / Nano-D
- Polarized Nano connectors
- Squeeze-latching Nano-D and Micro-D connectors
- MIL-DTL-32139 Nano-D connectors
- MIL-DTL-83513 Micro-D connectors
- Hybrid connector configurations
- Cable assemblies
- Wire harnesses



Table of Contents

Picture Index and Flex Pin	2
Single Row Micro Strip (PS1/PS2/SSB) Series	5
Dual Row Micro Strip (DRP/DRS) Series	33
Dual Row Offset Micro Strip (PSM/SSO) Series	60
Single Row Nano Strip (NPS/NSS) Series	89
Dual Row Nano Strip (NPD/NSD) Series	109
Polarized Nano (PZN) Series	133
Micro and Nano Strip Headers	148





Micro Strip Picture Index



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Nano Strip Picture Index

SINGLE ROW NANO STRIP (NPS/NSS) SERIES:



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Flex Pin - Micro

THE FLEX PIN DESIGN

Designed Simply for High Shock & Vibration

Omnetics' Flex Pin contact design was designed and produced many years before the creation of MIL-DTL-83513. This simple one piece design is stamped from ASTM B194 BeCu. The spring characteristic of BeCu is ideal for withstanding high shock and vibration.

The Flex Pin contact is intermateable 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 μ m) of gold over 50 micro inches (1.27 μ m) of nickel. All pins are plated post forming to ensure a non-porous surface.

FLEX PIN

The Omnetics Micro Flex Pin has been in successful production for 50 years. Omnetics looked at the old Twist Pin 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 and MIL-DTL-83513 series of connectors.

MICRO FLEX PIN



MMA SOLIS

HORIZONTAL SMT (TYPE AA)

Horizontal SMT Micro Strip connectors offer an extremely low profile package that is well suited to pick and place methods. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system conforming to the requirements of MIL-DTL-83513. These rugged light weight connectors are suitable for the most demanding applications. Available with mounting holes suitable for PCB and flex mounting.

These connectors are available in standard sizes ranging from 2 through 48 positions as well as custom configurations.

ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	3 AMPs max per contact
Voltage Rating (DWV):	_600 VAC RMS Sea Level
Insulation Resistance:	5000 Megohms min @ 500 VDC
Shock:	50 g's discontinuity < 1 microsecond
Vibration:	20 g's discontinuity < 1 microsecond
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	26 Milliohms (65 mV max @ 2.5 amp)
Mating/Unmating Force:	3 oz (85 g) typical per contact

MATERIAL SPECIFICATIONS

Standard Socket PCB Tail Termination:	Solder per J-STD-006 (Non-RoHS)
Standard Pin PCB Tail Termination:	Solder plate per AMS-P-81728 (Non-RoHS)
RoHS Pin PCB Tail Termination:	Hard gold plate per ASTM B488
RoHS Socket PCB Tail Termination:	Hard gold plate per ASTM B488
Insulator:	Polyphenylene Sulfide per MIL-M-24519
• Pin:	Gold Plated BeCu
Socket:	Gold Plated Copper Alloy
Encapsulant:	Ероху



PS1/PS2-AA LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":			
Add the total number of contacts			
Add 1 contact cavity for each latch			
Add 1 contact cavity for each guide post			
Total contact cavities			
Multiply the number of contact cavities minus 1 by .050"			
Add .150" (3 contact cavities) for each mounting hole			
Add fixed end length		.070″	
Total Length (Dimension A)			

Notes: Maximum length 2.42" (61.47). Maximum number of contact cavities is 48. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide posts and latches may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Nultiply the number of contact cavities minus 1 by .050"	
f hardware features are within the contact area:	
Add .050" (1 contact cavity) for each latch	
Add .050" (1 contact cavity) for each guide post	
Add .150" (3 contact cavities) for each mounting hole	
Fotal Length (Dimension B)	

Notes: Maximum pad layout length 2.35" (59.69). Add .100" from center of mounting hole to first pad (if the first contact cavity is for a guide post or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

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SSB-AA LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":		
Add the total number of contacts		
Add 1 contact cavity for each latch		
Add 1 contact cavity for each guide post		
Total contact cavities		
Multiply the number of contact cavities minus	1 by .050″	
Add .150" (3 contact cavities) for each mounting	g hole	
Add fixed end length		.070″
Total Length (Dimension A)		

Notes: Maximum length 2.42" (61.47). Maximum number of contact cavities is 48. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide posts and latches may be changed by customer.

Minneapolis, MN, USA Phone: +1 763.572.0656 Fax: 763.572.3925 Email: sales@omnetics.com www.omnetics.com

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities minus 1 by .050"	
If hardware features are within the contact area:	
Add .050" (1 contact cavity) for each latch	
Add .050" (1 contact cavity) for each guide post	
Add .150" (3 contact cavities) for each mounting hole	
Total Length (Dimension B)	

Notes: Maximum pad layout length 2.35" (59.69). Add .100" from center of mounting hole to first pad (if the first contact cavity is for a guide post or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



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HORIZONTAL SMT (TYPE AA) ORDERING GUIDE



ne: +1 763.572.0656 Fax: 763.572.3925 Email: sales@omnetics.com www.omnetics.com

STRAIGHT TAIL (TYPE DD)

The Single Row .050" Micro Strip connectors are configured with simple straight tails (Integral or Crimped). Suitable for vertical thru-hole mounting to fine pitched flex circuits. The straight solid tails are also commonly used in ultra fine wrap terminations, such as as electrophysiology. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system conforming to the requirements of MIL-DTL-83513. These connectors are available in standard sizes ranging from 2 through 48 positions as well as custom configurations.

Flex design and installation service is also available from Omnetics. Please contact us for more information.



ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	3 AMPs max per contact
Voltage Rating (DWV):	600 VAC RMS Sea Level
Insulation Resistance:	5000 Megohms min @ 500 VDC
Shock:	50 g's discontinuity < 1 microsecond
Vibration:	20 g's discontinuity < 1 microsecond
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	26 Milliohms (65 mV max @ 2.5 amp)
Mating/Unmating Force:	3 oz (85 g) typical per contact

MATERIAL SPECIFICATIONS

- Standard Socket PCB Tail Termination: Soldered per J-STD-006 (Non-RoHS) Standard Pin PCB Tail Termination: Solder plated per AMS-P-81728 (Non-RoHS) RoHS Pin PCB Tail Termination: Hard gold plate per ASTM B488 RoHS Socket PCB Tail Termination: Hard gold plate per ASTM B488 Insulator: Polyphenylene Sulfide per MIL-M-24519 • Pin:
- Socket:
- Encapsulant:

Gold Plated BeCu Gold Plated Copper Alloy Ероху



PS1/PS2-DD LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts	
Add 1 contact cavity for each latch	
Add 1 contact cavity for each guide post hole	
Total contact cavities	
Multiply the number of contact cavities minus 1 by .050"	
Add .150" (3 contact cavities) for each mounting hole	
Add fixed end length	.070″
Total Length (Dimension A)	

Notes: Maximum length for PS1 @ .075" thick 2.42" (61.47) Maximum number of contact cavities is 48. Maximum length for PS2 @ .100" thick 3.02" (76.71) Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide post holes and latches may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities minus 1 by .050"	
If hardware features are within the contact area:	
Add .050" (1 contact cavity) for each latch	
Add .050" (1 contact cavity) for each guide post	
Add .150" (3 contact cavities) for each mounting hole	
Total Length (Dimension B)	

Notes: Maximum hole pattern layout length for PS1 is 2.35" (59.69). Maximum hole pattern layout length for PS2 is 2.95" (74.93) Add .100" from center of mounting hole to first hole (if the first contact cavity is used for a guide post or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

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SSB-DD LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":		
Add the total number of contacts		
Add 1 contact cavity for each latch		
Add 1 contact cavity for each guide post		
Total contact cavities		
Multiply the number of contact cavities minus	1 by .050″	
Add .150" (3 contact cavities) for each mounting	g hole	
Add fixed end length		.070″
Total Length (Dimension A)		

Notes: Maximum length 2.42" (61.47). Maximum number of contact cavities is 48. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide posts and latches may be changed by customer.

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DIMENSIONS FOR "B"

Notes: Maximum pad layout length 2.35" (59.69). Add .100" from center of mounting hole to first pad (if the first contact cavity is for a guide post or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



STRAIGHT TAIL (TYPE DD) ORDERING GUIDE



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SHORT THRU-HOLE TAIL (TYPE BB)

The Single Row .050" Micro Strip connectors are configured with three different thru-hole options depending on your board's configuration: BB-Short Thru Hole, H2-Short/Long Alt, and CC-Long Thru Hole. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system conforming to the requirements of MIL-DTL-83513. These connectors are available in standard sizes ranging from 2 through 48 positions as well as custom configurations.

Flex design and installation service is also available from Omnetics. Please contact us for more information.



ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	3 AMPs max per contact
Voltage Rating (DWV):	600 VAC RMS Sea Level
Insulation Resistance:	5000 Megohms min @ 500 VDC
Shock:	_50 g's discontinuity < 1 microsecond
Vibration:	_20 g's discontinuity < 1 microsecond
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	_26 Milliohms (65 mV max @ 2.5 amp)
Mating/Unmating Force:	_3 oz (85 g) typical per contact

MATERIAL SPECIFICATIONS

- Standard Socket PCB Tail Termination: Soldered per J-STD-006 (Non-RoHS)
- Standard Pin PCB Tail Termination:
- RoHS Pin PCB Tail Termination:
- RoHS Socket PCB Tail Termination:
- Insulator:
- Pin:
- Socket:
- Encapsulant:

- Solder plated per AMS-P-81728 (Non-RoHS)
- Hard gold plated per ASTM B488
- Hard gold plated per ASTM B488
- Polyphenylene Sulfide per MIL-M-24519
- Gold Plated BeCu
 - Gold Plated Copper Alloy
- Ероху

PS1/PS2-BB LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts	
Add 1 contact cavity for each latch	
Add 1 contact cavity for each guide post hole	
Total contact cavities	
Multiply the number of contact cavities minus 1 by .050"	
Add .150" (3 contact cavities) for each mounting hole	
Add fixed end length	.070″
Total Length (Dimension A)	

Notes: Maximum length for PS1 @ .075" thick 2.42" (61.47) Maximum number of contact cavities is 48. Maximum length for PS2 @ .100" thick 3.02" (76.71) Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide post holes and latches may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities minus 1 by .050"	
If hardware features are within the contact area:	
Add .050" (1 contact cavity) for each latch	
Add .050" (1 contact cavity) for each guide post	
Add .150" (3 contact cavities) for each mounting hole	
Total Length (Dimension B)	

Notes: Maximum hole pattern layout length for PS1 is 2.35" (59.69). Maximum hole pattern layout length for PS2 is 2.95" (74.93). Add .100" from center of mounting hole to first hole (if the first contact cavity is used for a guide post or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

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17

SSB-BB LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":		
Add the total number of contacts		
Add 1 contact cavity for each latch		
Add 1 contact cavity for each guide post		
Total contact cavities		
Multiply the number of contact cavities minus 1	by .050″	
Add .150" (3 contact cavities) for each mounting	hole	
Add fixed end length		.070″
Total Length (Dimension A)		

Notes: Maximum length 2.42" (61.47). Maximum number of contact cavities is 48. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide posts and latches may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities minus 1 by .050"	
If hardware features are within the contact area:	
Add .050" (1 contact cavity) for each latch	
Add .050" (1 contact cavity) for each guide post	
Add .150" (3 contact cavities) for each mounting hole	
Total Length (Dimension B)	

Notes: Maximum hole layout length 2.35" (59.69). Add .100" from center of mounting hole to first hole (if the first contact cavity is for a guide post or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



OR CORPORATION

SHORT THRU HOLE TAIL (TYPE BB) ORDERING GUIDE



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SHORT/LONG ALT. THRU-HOLE (TYPE H2)

The Single Row .050" Micro Strip connectors are configured with three different thru-hole options depending on your board's configuration: BB-Short Thru Hole, H2-Short/Long Alt, and CC-Long Thru Hole. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system conforming to the requirements of MIL-DTL-83513. These connectors are available in standard sizes ranging from 2 through 48 positions as well as custom configurations.

Flex design and installation service is also available from Omnetics. Please contact us for more information.

ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	3 AMPs max per contact
Voltage Rating (DWV):	600 VAC RMS Sea Level
Insulation Resistance:	5000 Megohms min @ 500 VDC
Shock:	50 g's discontinuity < 1 microsecond
Vibration:	20 g's discontinuity < 1 microsecond
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	26 Milliohms (65 mV max @ 2.5 amp)
Mating/Unmating Force:	3 oz (85 g) typical per contact

MATERIAL SPECIFICATIONS

- Standard Socket PCB Tail Termination:______Soldered per J-STD-006 (Non-RoHS)
- Standard Pin PCB Tail Termination:
- RoHS Pin PCB Tail Termination:_
- RoHS Socket PCB Tail Termination:
- Insulator:
- Pin:_
- Encapsulant:

Soldered per J-STD-006 (Non-RoHS) Solder plated per AMS-P-81728 (Non-RoHS) Hard gold plated per ASTM B488

- _Hard gold plated per ASTM B488
- Polyphenylene Sulfide per MIL-M-24519
- _Gold Plated BeCu
- _Gold Plated Copper Alloy
- Ероху



PS1/PS2-H2 LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts	
Add 1 contact cavity for each latch	
Add 1 contact cavity for each guide post hole	
Total contact cavities	
Multiply the number of contact cavities minus 1 by .050"	
Add .150" (3 contact cavities) for each mounting hole	
Add fixed end length	.070″
Total Length (Dimension A)	

Notes: Maximum length for PS1 @ .075" thick 2.42" (61.47) Maximum number of contact cavities is 48. Maximum length for PS2 @ .100" thick 3.02" (76.71) Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide post holes and latches may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities minus 1 by .050"	
If hardware features are within the contact area:	
Add .050" (1 contact cavity) for each latch	
Add .050" (1 contact cavity) for each guide post	
Add .150" (3 contact cavities) for each mounting hole	
Total Length (Dimension B)	

Notes: Maximum hole pattern layout length for PS1 is 2.35" (59.69). Maximum hole pattern layout length for PS2 is 2.95" (74.93). Add .100" from center of mounting hole to first hole (if the first contact cavity is used for a guide post or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



SSB-H2 LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":		
Add the total number of contacts		
Add 1 contact cavity for each latch		
Add 1 contact cavity for each guide post		
Total contact cavities		
Multiply the number of contact cavities minus 1	by .050″	
Add .150" (3 contact cavities) for each mounting	hole	
Add fixed end length		.070″
Total Length (Dimension A)		

Notes: Maximum length 2.42" (61.47). Maximum number of contact cavities is 48. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide posts and latches may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities minus 1 by .050"	
If hardware features are within the contact area:	
Add .050" (1 contact cavity) for each latch	
Add .050" (1 contact cavity) for each guide post	
Add .150" (3 contact cavities) for each mounting hole	
Total Length (Dimension B)	

Notes: Maximum hole layout length 2.35" (59.69). Add .100" from center of mounting hole to first hole (if the first contact cavity is for a guide post or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



FOR CORPORATION

SHORT/LONG ALT. THRU HOLE TAIL (TYPE H2) ORDERING GUIDE



OWNELICS FRAM

LONG THRU-HOLE (TYPE CC)

The Single Row .050" Micro Strip connectors are configured with three different thru-hole options depending on your board's configuration: BB-Short Thru Hole, H2-Short/Long Alt, and CC-Long Thru Hole. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system conforming to the requirements of MIL-DTL-83513. These connectors are available in standard sizes ranging from 2 through 48 positions as well as custom configurations.

Flex design and installation service is also available from Omnetics. Please contact us for more information.

ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	3 AMPs max per contact
Voltage Rating (DWV):	600 VAC RMS Sea Level
Insulation Resistance:	5000 Megohms min @ 500 VDC
Shock:	50 g's discontinuity < 1 microsecond
Vibration:	20 g's discontinuity < 1 microsecond
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	26 Milliohms (65 mV max @ 2.5 amp)
Mating/Unmating Force:	3 oz (85 g) typical per contact

MATERIAL SPECIFICATIONS

- Standard Socket PCB Tail Termination: _______Soldered per J-STD-006 (Non-RoHS)
 Standard Pin PCB Tail Termination: _______Solder plated per AMS-P-81728 (Non-RoHS)
 RoHS Pin PCB Tail Termination: ______Hard gold plated per ASTM B488
- RoHS Socket PCB Tail Termination:
- Insulator:
- Pin:_
- Socket:
- Encapsulant:

_Polyphenylene Sulfide per MIL-M-24519

Hard gold plated per ASTM B488

- ___Gold Plated BeCu
 - Gold Plated Copper Alloy
- Ероху



PS1/PS2-CC LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts	
Add 1 contact cavity for each latch	
Add 1 contact cavity for each guide post hole	
Total contact cavities	
Multiply the number of contact cavities minus 1 by .050"	
Add .150" (3 contact cavities) for each mounting hole	
Add fixed end length	.070″
Total Length (Dimension A)	

Notes: Maximum length for PS1 @ .075" thick 2.42" (61.47) Maximum number of contact cavities is 48. Maximum length for PS2 @ .100" thick 3.02" (76.71) Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide post holes and latches may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities minus 1 by .050"	
If hardware features are within the contact area:	
Add .050" (1 contact cavity) for each latch	
Add .050" (1 contact cavity) for each guide post	
Add .150" (3 contact cavities) for each mounting hole	
Total Length (Dimension B)	

Notes: Maximum hole pattern layout length for PS1 is 2.35" (59.69). Maximum hole pattern layout length for PS2 is 2.95" (74.93). Add .100" from center of mounting hole to first hole (if the first contact cavity is used for a guide post or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



25

SSB-CC LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":		
Add the total number of contacts		
Add 1 contact cavity for each latch		
Add 1 contact cavity for each guide post		
Total contact cavities		
Multiply the number of contact cavities minus	1 by .050"	
Add .150" (3 contact cavities) for each mounting	g hole	
Add fixed end length		.070″
Total Length (Dimension A)		

Notes: Maximum length 2.42" (61.47). Maximum number of contact cavities is 48. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide posts and latches may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities minus 1 by .050"	
If hardware features are within the contact area:	
Add .050" (1 contact cavity) for each latch	
Add .050" (1 contact cavity) for each guide post	
Add .150" (3 contact cavities) for each mounting hole	
Total Length (Dimension B)	

Notes: Maximum hole layout length 2.35" (59.69). Add .100" from center of mounting hole to first hole (if the first contact cavity is for a guide post or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



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LONG THRU HOLE TAIL (TYPE CC) ORDERING GUIDE



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SOLDERCUP (TYPE SS)

Single Row Micro Strip connectors are available in soldercup configurations. The soldercup tails are commonly used within hand soldering applications, and/or specific wire based devices that require a small robust connector during one of the final phases of production. These connectors feature Omnetics' gold plated Flex Pin contact system that conforms to the requirements of MIL-DTL-83513.

Micro Strip connectors are available in standard sizes ranging from 2 through 48 positions as well as custom configurations and accept 26 AWG or smaller stranded wire.



Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	3 AMPs max per contact
Voltage Rating (DWV):	600 VAC RMS Sea Level
Insulation Resistance:	5000 Megohms min @ 500 VDC
Shock:	50 g's discontinuity < 1 microsecond
Vibration:	20 g's discontinuity < 1 microsecond
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	26 Milliohms (65 mV max @ 2.5 amp)
Mating/Unmating Force:	3 oz (85 g) typical per contact

MATERIAL SPECIFICATIONS

Standard Socket Soldercup Termination:	Hard Gold Plated per ASTM B488
Standard Socket PCB Tail Termination:	Soldered per J-STD-006 (Non-RoHS)
Standard Soldercup Termination:	Solder plated per AMS-P-81728 (Non-RoHS)
RoHS Pin Soldercup Termination:	Hard gold plated per ASTM B488
RoHS Socket Soldercup Termination:	Hard gold plated per ASTM B488
Insulator:	Polyphenylene Sulfide per MIL-M-24519
• Pin:	Gold Plated BeCu
Socket:	Gold Plated Copper Alloy
Encansulant:	Fnoxy

OMNETICS CONNECTOR CORPORATION

PS1/PS2-SS LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts	
Add 1 contact cavity for each latch	
Add 1 contact cavity for each guide post hole	
Total contact cavities	
Subtract 1 from the total to get the number of cavity spaces and multiply by .050"	
Add .150" (3 contact cavities) for each mounting hole	
Add fixed end length constant	.070″
Fotal Length (Dimension A)	

Notes: Maximum length for PS1 @ .075" thick 2.42" (61.47) Maximum number of contact cavities is 48. Maximum length for PS2 @ .100" thick 3.02" (76.71). Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide post holes and latches may be changed by customer. Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



SSB-SS LAYOUT



To determine connector length A :	
Add the total number of contacts	
Add 1 contact cavity for each latch	
Add 1 contact cavity for each guide post	
Total contact cavities	
Subtract 1 from the total to get the number of cavity spaces and multiply by .050"	
Add .150" (3 contact cavities) for each mounting hole	
Add fixed end length	.070″
Total Length (Dimension A)	

Notes: Maximum length 2.42" (61.47). Maximum number of contact cavities is 48. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide posts and latches may be changed by customer. Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

SOLDER CUP (TYPE SS) ORDERING GUIDE



OMNETICS

AMALA SOLIS

CUMETICS 1770

PRE-WIRED/CABLE (TYPE WD/WC)

Pre-wired Single Row Micro Strip connectors are available with 26 AWG to 32 AWG stranded wire. These assemblies are crimped using proprietary semi-automated crimping systems. Due to their small size and precision required to make these quality crimps, hand crimping is not an option. Pre-crimped wires and contacts are potted in place, further protecting the integrity of the crimp joint. Building these parts to order allows for maximum flexibility in wire type, size and color coding. Commercial Off The Shelf (COTS) versions are also available with 18" of color coded 26 AWG Teflon wire for quick turn around.

These connectors are available in standard sizes ranging from 2 through 48 positions as well as custom configurations, and accept 26 AWG or smaller stranded wire.

ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	3 AMPs max per contact
Voltage Rating (DWV):	600 VAC RMS Sea Level
Insulation Resistance:	5000 Megohms min @ 500 VDC
Shock:	50 g's discontinuity < 1 microsecond
Vibration:	20 g's discontinuity < 1 microsecond
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	26 Milliohms (65 mV max @ 2.5 amp)
Mating/Unmating Force:	3 oz (85 g) typical per contact

MATERIAL SPECIFICATIONS

Standard Wire:	26 AWG, Teflon Insulated per NEMA-HP3
Insulator:	Polyphenylene Sulfide per MIL-M-24519
• Pin:	Gold Plated BeCu
Socket:	Gold Plated Copper Alloy
Encapsulant:	Ероху



PS1/PS2-WD/WC LAYOUT



Total Length (Dimension A)

Notes: Maximum length for PS1 @ .075" thick 2.42" (61.47) Maximum number of contact cavities is 48. Maximum length for PS2 @ .100" thick 3.02" (76.71). Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide post holes and latches may be changed by customer. Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



SSB-WD/WC LAYOUT



Notes: Maximum length 2.42" (61.47). Maximum number of contact cavities is 48. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide posts and latches may be changed by customer. Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

PRE-WIRED/CABLE (TYPE WD/WC) ORDERING GUIDE



SSB-17-WD-18.0-C-M-GS



Dual Row Micro Strip

HORIZONTAL SMT (TYPE AA)

Horizontal SMT Micro Strip connectors offer an extremely low profile package that is well suited to pick and place methods. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system conforming to the requirements of MIL-DTL-83513. These rugged light weight connectors are suitable for the most demanding applications. Available with fixing/ retention jack screws as well as mounting holes suitable for PCB and flex mounting.

These connectors are available in standard sizes ranging from 2 through 64 positions as well as custom configurations.

ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200°C w/HTE)
Current rating:	3 AMPs max per contact
Voltage Rating (DWV):	600 VAC RMS Sea Level
Insulation Resistance:	5000 Megohms min @ 500 VDC
Shock:	50 g's discontinuity < 1 microsecond
Vibration:	20 g's discontinuity < 1 microsecond
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	26 Milliohms (65 mV max @ 2.5 amp)
Mating/Unmating Force:	3 oz (85 g) typical per contact

MATERIAL SPECIFICATIONS

- Standard Socket PCB Tail Termination: Soldered per J-STD-006 (Non-RoHS)
- Standard Pin PCB Tail Termination:
- RoHS Pin PCB Tail Termination:
- RoHS Socket PCB Tail Termination:
- Insulator:
- Pin:
- Socket:
- Encapsulant:

- Solder plated per AMS-P-81728 (Non-RoHS) Hard gold plated per ASTM B488
- Hard gold plated per ASTM B488
- Polyphenylene Sulfide per MIL-M-24519
- Gold Plated BeCu
- Gold Plated Copper Alloy
- Ероху

Dual Row Micro Strip

DRP-AA LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts in one row	
Add 1 contact cavity for each latch in the same row	
Add 1 contact cavity for each guide post hole in the same row	v
Total contact cavities in a single row	
Multiply the number of contact cavities minus 1 by .050"	
Add .150" for each mounting hole	
Add .100" for each screw receptacle	
Add fixed end length constant	.062″
Total Length (Dimension A)	

Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide post holes and latches may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities in one row minus 1 by .050"	
If hardware features are within the contact area:	
Add .050" for each latch	
Add .050" for each guide post hole	
Add .100" for each screw receptacle	
Total Length (Dimension B)	
	7

Notes: Maximum length 1.55" (39.37). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

OMNETICS
DRS-AA LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts in one row	
Add 1 contact cavity for each latch in the same row	
Add 1 contact cavity for each guide post hole in the same row	
Total contact cavities in a single row	
Multiply the number of contact cavities minus 1 by .050"	
Add .150" for each mounting hole	
Add .100" for each screw receptacle	
Add fixed end length constant	.062″
Total Length (Dimension A)	

Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide post holes and latches may be changed by customer.

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DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities in one row minus 1 by .050" _	
If hardware features are within the contact area:	
Add .050″ for each latch	
Add .050" for each guide post hole	
Add .100" for each screw receptacle	
Total Length (Dimension B)	

Notes: Maximum length 1.55" (39.37). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



27

FOR CORPORATION

HORIZONTAL SMT (TYPE AA) ORDERING GUIDE



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MARCINS 17 MAY

STRAIGHT TAIL (TYPE DD)

The Dual Row .050" Micro Strip connectors are configured with simple straight tails (Integral or Crimped). Suitable for vertical thru-hole mounting to fine pitched flex circuits. The straight solid tails are also commonly used in ultra fine wrap terminations, such as electrophysiology. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system which meets the performance specifications of MIL-DTL-83513. Available with fixing/retention jack screws as well as mounting holes suitable for PCB and flex mounting.

These connectors are available in standard sizes ranging from 2 through 64 positions as well as custom configurations. Flex design and installation service is also available from Omnetics. Please contact us for more information.

ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	3 AMPs max per contact
Voltage Rating (DWV):	600 VAC RMS Sea Level
Insulation Resistance:	5000 Megohms min @ 500 VDC
Shock:	50 g's discontinuity < 1 microsecond
Vibration:	20 g's discontinuity < 1 microsecond
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	26 Milliohms (65 mV max @ 2.5 amp)
Mating/Unmating Force:	3 oz (85 g) typical per contact

MATERIAL SPECIFICATIONS

- Standard Socket PCB Tail Termination:______Soldered per J-STD-006 (Non-RoHS)
- Standard Pin PCB Tail Termination:_
- RoHS Pin PCB Tail Termination:_
- RoHS Socket PCB Tail Termination:_
- Insulator:
- Pin:_
- Encapsulant:

- Soldered per J-STD-006 (Non-RoHS) Solder plated per AMS-P-81728 (Non-RoHS) Hard gold plated per ASTM B488
- Hard gold plated per ASTM B488
- Polyphenylene Sulfide per MIL-M-24519
- Gold Plated BeCu
 - Gold Plated Copper Alloy
- Ероху

DRP-DD LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts in one row	
Add 1 contact cavity for each latch in the same row	
Add 1 contact cavity for each guide post hole in the same row	
Total contact cavities in a single row	
Multiply the number of contact cavities minus 1 by .050"	
Add .150" for each mounting hole	
Add .100" for each screw receptacle	
Add fixed end length constant	.062″
Total Length (Dimension A)	

Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide post holes and latches may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities in one row minus 1 by .050" _	
If hardware features are within the contact area:	
Add .050″ for each latch	
Add .050" for each guide post hole	
Add .100" for each screw receptacle	
Total Length (Dimension B)	
	7

Notes: Maximum length 1.55" (39.37). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

OMNETICS CONNECTOR CORPORATION

DRS-DD LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts in one row	
Add 1 contact cavity for each latch in the same row	
Add 1 contact cavity for each guide post hole in the same row	
Total contact cavities in a single row	
Multiply the number of contact cavities minus 1 by .050"	
Add .150" for each mounting hole	
Add .100" for each screw receptacle	
Add fixed end length constant	.062″
Total Length (Dimension A)	

Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide post holes and latches may be changed by customer.

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DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities in one row minus 1 by .05	50″
If hardware features are within the contact area:	
Add .050″ for each latch	
Add .050" for each guide post hole	
Add .100" for each screw receptacle	
Total Length (Dimension B)	

Notes: Maximum length 1.55" (39.37). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



TOR CORPORATION

STRAIGHT TAIL (TYPE DD) ORDERING GUIDE



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FLEX TAIL (TYPE FF)

Flex mount Micro Strip connectors are a low profile ruggedized connector on .050" (1.27 mm) centerlines. The SMT tails are formed together in an hourglass shape, allowing a double sided flex circuit to slide between the 2 rows of leads. The spring tension holds the flex in place during the soldering process. These durable light weight connectors are suitable for the most demanding applications. Available with retaining pin screws as well as mounting holes suitable for PCB and flex mounting. They feature Omnetics' highly reliable gold plated Flex Pin contact system which meets the performance specifications of MIL-DTL-83513. These connectors are available in standard sizes ranging from 2 through 64 positions as well as custom configurations.



Flex design and installation service is also available from Omnetics. Please contact us for more information.

ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	3 AMPs max per contact
Voltage Rating (DWV):	600 VAC RMS Sea Level
Insulation Resistance:	5000 Megohms min @ 500 VDC
Shock:	50 g's discontinuity < 1 microsecond
Vibration:	20 g's discontinuity < 1 microsecond
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	26 Milliohms (65 mV max @ 2.5 amp)
Mating/Unmating Force:	3 oz (85 g) typical per contact

MATERIAL SPECIFICATIONS

- Standard Socket PCB Tail Termination:
 Standard Pin PCB Tail Termination:
 RoHS Pin PCB Tail Termination:
 RoHS Socket PCB Tail Termination:
 Hard gold plated per ASTM B488
 Hard gold plated per ASTM B488
- Insulator:
- Pin:_
- Encapsulant:

- _Polyphenylene Sulfide per MIL-M-24519
- __Gold Plated BeCu
 - Gold Plated Copper Alloy
- Ероху

DRS-FF LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts in one row	
Add 1 contact cavity for each latch in the same row	
Add 1 contact cavity for each guide post hole in the same row	/
Total contact cavities in a single row	
Multiply the number of contact cavities minus 1 by .050"	
Add .150" for each mounting hole	
Add .100" for each screw receptacle	
Add fixed end length constant	.062″
Total Length (Dimension A)	

Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide post holes and latches may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities in one row minus 1 by .050"	
If hardware features are within the contact area:	
Add .050" for each latch	
Add .050" for each guide post hole	
Add .100" for each screw receptacle	
Total Length (Dimension B)	

Notes: Maximum length 1.55" (39.37). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



45

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FLEX TAIL (TYPE FF) ORDERING GUIDE



LONG/SHORT ALT. THRU-HOLE (TYPE H2)

The Dual Row Micro Strip connectors have contacts arranged on .050" (1.27 mm) centerlines. The thru-hole tails are arranged in a 050" x .100" grid, allowing for space for traces and annular rings. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system which meets the performance specifications of MIL-DTL-83513. These durable light weight connectors are suitable for the most demanding applications. They are available with retaining screws as well as mounting holes suitable for PCB and flex mounting.

These connectors are available in standard sizes ranging from 2 through 64 positions as well as custom configurations.

46

ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	3 AMPs max per contact
Voltage Rating (DWV):	600 VAC RMS Sea Level
Insulation Resistance:	5000 Megohms min @ 500 VDC
Shock:	50 g's discontinuity < 1 microsecond
Vibration:	20 g's discontinuity < 1 microsecond
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	26 Milliohms (65 mV max @ 2.5 amp)
Mating/Unmating Force:	3 oz (85 g) typical per contact

MATERIAL SPECIFICATIONS

Standard Socket PCB Tail Termination:	Soldered per J-STD-006 (Non-RoHS)
Standard Pin PCB Tail Termination:	Solder plated per AMS-P-81728 (Non-RoHS)
RoHS Pin PCB Tail Termination:	Hard gold plated per ASTM B488
RoHS Socket PCB Tail Termination:	Hard gold plated per ASTM B488
 Insulator: Pin: Socket: Enconculant: 	Polyphenylene Sulfide per MIL-M-24519 Gold Plated BeCu Gold Plated Copper Alloy
• Encapsulant:	Ероху



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MICASS 1711

DRP-H2 LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":			
Add the total number of contacts in one row			
Add 1 contact cavity for each latch in the same row			
Add 1 contact cavity for each guide post hole in the same row			
Total contact cavities in a single row			
Multiply the number of contact cavities minus 1 by .050"			
Add .150" for each mounting hole			
Add .100" for each screw receptacle			
Add fixed end length constant	.062″		
Total Length (Dimension A)			

Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide post holes and latches may be changed by customer.

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DIMENSIONS FOR "B"

Notes: Maximum length 1.55" (39.37). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



47

DRS-H2 LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":			
Add the total number of contacts in one row			
Add 1 contact cavity for each latch in the same row			
Add 1 contact cavity for each guide post hole in the same row			
Total contact cavities in a single row			
Multiply the number of contact cavities minus 1 by .050"			
Add .150" for each mounting hole			
Add .100" for each screw receptacle			
Add fixed end length constant	.062″		
Total Length (Dimension A)			

Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide post holes and latches may be changed by customer.

CONNECTOR CORPORATION

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities in one row minus 1 by .050"	
f hardware features are within the contact area:	
Add .050" for each latch	
Add .050" for each guide post hole	
Add .100" for each screw receptacle	
Fotal Length (Dimension B)	

Notes: Maximum length 1.55" (39.37). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

49

NNECTOR CORPORATION

SHORT/LONG ALT. THRU HOLE TAIL (TYPE H2) ORDERING GUIDE



SOLDER CUP (TYPE SS)

The solder cup tails are commonly used for hand soldering applications and for specific wire-based devices that require a small robust connector during one of the final phases of production. These connectors feature Omnetics' gold plated Flex Pin contact system which meets the performance specifications of MIL-DTL-83513. Available with fixing/retention jack screws as well as mounting holes suitable for PCB and flex mounting.

These connectors are available in standard sizes ranging from 2 through 64 positions as well as custom configurations and accept 26 AWG or smaller stranded wire.





ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	3 AMPs max per contact
Voltage Rating (DWV):	600 VAC RMS Sea Level
Insulation Resistance:	5000 Megohms min @ 500 VDC
Shock:	50 g's discontinuity < 1 microsecond
Vibration:	20 g's discontinuity < 1 microsecond
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	26 Milliohms (65 mV max @ 2.5 amp)
Mating/Unmating Force:	3 oz (85 g) typical per contact

MATERIAL SPECIFICATIONS

• St	tandard Socket Soldercup Termination:	Hard Gold Plated per ASTM B488
• St	tandard Socket PCB Tail Termination:	Soldered per J-STD-006 (Non-RoHS)
• St	tandard Soldercup Termination:	_Solder plated per AMS-P-81728 (Non-RoHS)
• Ro	oHS Pin Soldercup Termination:	Hard gold plated per ASTM B488
• Ro	oHS Socket Soldercup Termination:	Hard gold plated per ASTM B488
• In	sulator:	Polyphenylene Sulfide per MIL-M-24519
• Pi	in:	_Gold Plated BeCu
• Sc	ocket:	Gold Plated Copper Alloy
• Er	ncapsulant:	Ероху



50

DRP-SS LAYOUT









5

DIMENSIONS FOR "A"

•	To determine connector length "A":	
	Add the total number of contacts in one row	
	Add 1 contact cavity for each latch in the same row	
4	Add 1 contact cavity for each guide post in the same row	
•	Total contact cavities in a single row	
1	Subtract 1 from the total to get the number of cavity spaces and mulitply by .050"	
	Add .150" for each mounting hole	
	Add .100" for each screw receptacle	
	Add fixed end length constant	.062
•	Total Length (Dimension A):	

Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide posts and latches may be changed by customer. Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

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DRS-SS LAYOUT







DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts in one row	
Add 1 contact cavity for each latch in the same row	
Add 1 contact cavity for each guide post hole in the same row	
Total contact cavities in a single row	_
Subtract 1 from the total to get the number of cavity spaces and mulitply by .050".	
Add .150" for each mounting hole .	_
Add .100" for each screw receptacle	
Add fixed end length constant	
Total Length (Dimension A)	.062″

Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide post holes and latches may be changed by customer. Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



NNECTOR CORPORATION

SOLDERCUP (TYPE SS) ORDERING GUIDE



VERTICAL SMT (TYPE VV)

Vertical SMT Micro Strip connectors require a minimal amount of board space on flex circuits and rigid circuit boards. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system which meets the performance specifications of MIL-DTL-83513. These rugged light weight connectors are suitable for the most demanding applications. Available with retaining screws as well as mounting holes suitable for PCB and flex mounting.

These connectors are available in standard sizes ranging from 2 through 64 positions as well as custom configurations.



ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	3 AMPs max per contact
Voltage Rating (DWV):	600 VAC RMS Sea Level
Insulation Resistance:	5000 Megohms min @ 500 VDC
Shock:	50 g's discontinuity < 1 microsecond
Vibration:	20 g's discontinuity < 1 microsecond
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	26 Milliohms (65 mV max @ 2.5 amp)
Mating/Unmating Force:	3 oz (85 g) typical per contact

MATERIAL SPECIFICATIONS

-	Standard Cocket DCP Tail Termination	Coldered per LCTD 006 (Nep DoUC)
•	Standard Socket PCB fail fermination:	_Soldered per J-STD-006 (Non-RoHS)
•	Standard Pin PCB Tail Termination:	_Solder plated per AMS-P-81728 (Non-RoHS)
•	RoHS Pin PCB Tail Termination:	_Hard gold plated per ASTM B488
•	RoHS Socket PCB Tail Termination:	Hard gold plated per ASTM B488
•	Insulator:	Polyphenylene Sulfide per MIL-M-24519
•	Pin:	_Gold Plated BeCu
•	Socket:	Gold Plated Copper Alloy
٠	Encapsulant:	Ероху



54

DRP-VV LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":			
Add the total number of contacts in one row			
Add 1 contact cavity for each latch in the same row			
Add 1 contact cavity for each guide post hole in the same row			
Total contact cavities in a single row			
Multiply the number of contact cavities minus 1 by .050"			
Add .150" for each mounting hole			
Add .100" for each screw receptacle			
Add fixed end length constant	.062″		
Total Length (Dimension A)			

Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide post holes and latches may be changed by customer.

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DIMENSIONS FOR "B"

To determine pad pattern layout length "B":			
Multiply the number of contact cavities in one row minus 1 by .050"			
If hardware features are within the contact area:			
Add .050″ for each latch			
Add .050" for each guide post hole			
Add .100" for each screw receptacle			
Total Length (Dimension B)			

Notes: Maximum length 1.55" (39.37). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



55

DRS-VV LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":		
Add the total number of contacts in one row		
Add 1 contact cavity for each latch in the same row		
Add 1 contact cavity for each guide post hole in the same ro	w	
Total contact cavities in a single row		
Multiply the number of contact cavities minus 1 by .050"		
Add .150" for each mounting hole		
Add .100" for each screw receptacle		
Add fixed end length constant		.062″
Total Length (Dimension A)		

Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide post holes and latches may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities in one row minus 1 by .050"	
If hardware features are within the contact area:	
Add .050" for each latch	
Add .050" for each guide post hole	
Add .100" for each screw receptacle	
Total Length (Dimension B)	

Notes: Maximum length 1.55" (39.37). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

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5

ONNECTOR CORPORATION

VERTICAL SMT (TYPE VV) ORDERING GUIDE



PRE-WIRED/CABLE (TYPE WD/WC)

Pre-wired Dual Row Micro Strip connectors are available with 26 AWG to 32 AWG stranded wire. These assemblies are crimped using proprietary semi-automated crimping systems. Due to the small size and precision required to make these quality crimps, hand crimping is not an option. Pre-crimped wires and contacts are potted in place, further protecting the integrity of the crimp joint. Building these parts to order allows for maximum flexibility in wire type, size and color coding. Commercial Off The Shelf (COTS) versions are also available with 18" of color coded 26 AWG Teflon for quick turn around.

These connectors are available in standard sizes ranging from 2 through 64 positions as well as custom configurations.

50

ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	3 AMPs max per contact
Voltage Rating (DWV):	600 VAC RMS Sea Level
Insulation Resistance:	5000 Megohms min @ 500 VDC
Shock:	50 g's discontinuity < 1 microsecond
Vibration:	20 g's discontinuity < 1 microsecond
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	26 Milliohms (65 mV max @ 2.5 amp)
Mating/Unmating Force:	3 oz (85 g) typical per contact

MATERIAL SPECIFICATIONS

•	Standard Wire:	26 AWG, Teflon Insulated per NEMA-HP3
•	Insulator:	Polyphenylene Sulfide per MIL-M-24519
•	Pin:	_Gold Plated BeCu
•	Socket:	_Gold Plated Copper Alloy
•	Encapsulant:	Ероху



DRP-WD/WC LAYOUT



Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide posts and latches may be changed by customer. Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

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Total Length (Dimension A):



59

DRS-WD/WC LAYOUT



Total contact cavities in a single row

- Subtract 1 from the total to get the number of cavity spaces and mulitply by .050"
- Add .150" for each mounting hole

Notes: Maximum length 1.85" (46.99). Maximum number of contact cavities is 64. Number of contacts must be reduced to accommodate hardware and mounting holes. Default locations for guide post holes and latches may be changed by customer. Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



ONNECTOR CORPORATION

PRE-WIRED/CABLE (TYPE WD/WC) ORDERING GUIDE



HORIZONTAL SMT (TYPE AA)

Horizontal SMT Micro Strip connectors offer an extremely low profile package that is well suited to pick and place methods. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system which meets the performance specifications of MIL-DTL-83513. These rugged light weight connectors are suitable for the most demanding applications. Available with mounting holes suitable for PCB and flex mounting.

These connectors are available in standard sizes ranging from 2 through 97 positions as well as custom configurations.



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ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	3 AMPs max per contact
Voltage Rating (DWV):	600 VAC RMS Sea Level
Insulation Resistance:	5000 Megohms min @ 500 VDC
Shock:	50 g's discontinuity < 1 microsecond
Vibration:	20 g's discontinuity < 1 microsecond
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	26 Milliohms (65 mV max @ 2.5 amp)
Mating/Unmating Force:	3 oz (85 g) typical per contact

MATERIAL SPECIFICATIONS

Standard Socket PCB Tail Termination:	Soldered per J-STD-006 (Non-RoHS)
Standard Pin PCB Tail Termination:	Solder plated per AMS-P-81728 (Non-RoHS)
RoHS Pin PCB Tail Termination:	Hard gold plated per ASTM B488
RoHS Socket PCB Tail Termination:	Hard gold plated per ASTM B488
Insulator:	Polyphenylene Sulfide per MII-M-24519
• Pin:	Gold Plated BeCu
Socket:	Gold Plated Copper Alloy
- JOCKCI.	dola i latea copper Alloy
Encapsulant:	Ероху



62

PSM-AA LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts	
Add 1 contact cavity for each latch	
Add 1 contact cavity for each guide post	
Total contact cavities	
Multiply the number of contact cavities minus 1 by .025"	
Add .150" for each mounting hole	
Add fixed end length constant	.070″*
Total Length (Dimension A)	

Notes: Maximum length 2.47" (62.74) without mounting holes. Maximum length 2.77" (70.36) with two end mounting holes. Maximum number of contact cavities is 97. Number of contacts must be reduced to accommodate hardware and mounting holes.

* Add 0.095" when an even number of contact cavities is used and the connector has mounting holes. Default locations for guide post holes and latches may be changed by customer.

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DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities minus 1 by .025"	
If hardware features are within the contact area:	
Add .025" for each latch	
Add .025" for each guide post hole	
Total Length (Dimension B)	

Notes: Maximum pad layout length 2.40" (60.96). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



SSO-AA LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts	
Add 1 contact cavity for each latch	
Add 1 contact cavity for each guide post	
Total contact cavities	
Multiply the number of contact cavities minus 1 by .025"	
Add .150" for each mounting hole	
Add fixed end length constant	.070″*
Total Length (Dimension A)	

Notes: Maximum length 2.47" (62.74) without mounting holes. Maximum length 2.77" (70.36) with two end mounting holes. Maximum number of contact cavities is 97. Number of contacts must be reduced to accommodate hardware and mounting holes.

* Add 0.095" when an even number of contact cavities is used and the connector has mounting holes. Default locations for guide post holes and latches may be changed by customer.

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DIMENSIONS FOR "B"

To determine pad pattern layout length "B":			
Multiply the number of contact cavities minus 1 by .025"			
If hardware features are within the contact area:			
Add .025" for each latch			
Add .025" for each guide post hole			
Total Length (Dimension B)			

Notes: Maximum pad layout length 2.40" (60.96). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

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ONNECTOR CORPORATION

HORIZONTAL SMT (TYPE AA) ORDERING GUIDE



STRAIGHT TAIL (TYPE DD)

The Dual Row .050" Offset Micro Strip connectors are configured with simple straight tails (Integral or Crimped). They are suitable for vertical thru-hole mounting, fine pitched, or rigid flex circuits. The straight solid tails are also commonly used in ultra fine wrap terminations, such as electro physiology. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system which meets the performance specifications of MIL-DTL-83513. They are available with mounting holes suitable for PCB and flex mounting.

These connectors are available in standard sizes ranging from 2 through 97 positions as well as custom configurations. Flex design and installation service is also available from Omnetics. Please contact us for more information.



ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	3 AMPs max per contact
Voltage Rating (DWV):	600 VAC RMS Sea Level
Insulation Resistance:	5000 Megohms min @ 500 VDC
Shock:	50 g's discontinuity < 1 microsecond
Vibration:	20 g's discontinuity < 1 microsecond
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	26 Milliohms (65 mV max @ 2.5 amp)
Mating/Unmating Force:	3 oz (85 g) typical per contact

MATERIAL SPECIFICATIONS

• Standard Socket	PCB Tail Termination:	Soldered per J-STD-006 (Non-RoHS)
• Standard Pin PCE	3 Tail Termination:	Solder plated per AMS-P-81728 (Non-RoHS)
• RoHS Pin PCB Tai	l Termination:	Hard gold plated per ASTM B488
RoHS Socket PCB	3 Tail Termination:	Hard gold plated per ASTM B488
 Insulator: 		Polyphenylene Sulfide per MIL-M-24519
• Pin:		Gold Plated BeCu
Socket:		Gold Plated Copper Alloy
Encapsulant:		Ероху



66

PSM-DD LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":		
Add the total number of contacts		
Add 1 contact cavity for each latch		
Add 1 contact cavity for each guide post		
Total contact cavities		
Multiply the number of contact cavities minus	1 by .025″	
Add .150" for each mounting hole		
Add fixed end length constant		.070″*
Total Length (Dimension A)		

Notes: Maximum length 2.47" (62.74) without mounting holes. Maximum length 2.77" (70.36) with two end mounting holes. Maximum number of contact cavities is 97. Number of contacts must be reduced to accommodate hardware and mounting holes.

* Add 0.095" when an even number of contact cavities is used and the connector has mounting holes. Default locations for guide post holes and latches may be changed by customer.

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DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities minus 1 by .025"	
If hardware features are within the contact area:	
Add .025" for each latch	
Add .025" for each guide post hole	
Total Length (Dimension B)	

Notes: Maximum pad layout length 2.40" (60.96). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



67

SSO-DD LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts	
Add 1 contact cavity for each latch	
Add 1 contact cavity for each guide post	
Total contact cavities	
Multiply the number of contact cavities minus 1 by .025"	
Add .150" for each mounting hole	
Add fixed end length constant	.070″*
Total Length (Dimension A)	

Notes: Maximum length 2.47" (62.74) without mounting holes. Maximum length 2.77" (70.36) with two end mounting holes. Maximum number of contact cavities is 97. Number of contacts must be reduced to accommodate hardware and mounting holes.

* Add 0.095" when an even number of contact cavities is used and the connector has mounting holes. Default locations for guide post holes and latches may be changed by customer.

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DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities minus 1 by .025"	
If hardware features are within the contact area:	
Add .025" for each latch	
Add .025" for each guide post hole	
Total Length (Dimension B)	

Notes: Maximum pad layout length 2.40" (60.96). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

STRAIGHT TAIL (TYPE DD) ORDERING GUIDE



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FLEX TAIL (TYPE FF)

Flex mount offset Micro Strip connectors are a low profile ruggedized connector on .050" (1.27 mm) centerlines. The SMT tails are formed together in an hourglass shape, allowing a double sided flex circuit to slide between the 2 rows of leads. The spring tension holds the flex in place during the soldering process. These durable light weight connectors are suitable for the most demanding applications. They are available with mounting holes suitable for PCB and flex mounting, and feature Omnetics' highly reliable gold plated Flex Pin contact system which meets the performance specifications of MIL-DTL-83513.

These connectors are available in standard sizes ranging from 2 through 97 positions as well as custom configurations. Flex design and installation service is also available from Omnetics. Please contact us for more information.

ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	3 AMPs max per contact
Voltage Rating (DWV):	600 VAC RMS Sea Level
Insulation Resistance:	5000 Megohms min @ 500 VDC
• Shock:	50 g's discontinuity < 1 microsecond
Vibration:	20 g's discontinuity < 1 microsecond
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	26 Milliohms (65 mV max @ 2.5 amp)
Mating/Unmating Force:	3 oz (85 g) typical per contact

MATERIAL SPECIFICATIONS

 Standard Cocket DCP Tail Termination. 	Soldarad par I STD 006 (Nap Balls)
Standard Socket PCD Tail Termination:	Soldered per J-STD-000 (NOII-ROHS)
Standard Pin PCB Tail Termination:	Solder plated per AMS-P-81728 (Non-RoHS)
RoHS Pin PCB Tail Termination:	Hard gold plated per ASTM B488
RoHS Socket PCB Tail Termination:	Hard gold plated per ASTM B488
Insulator:	Polyphenylene Sulfide per MIL-M-24519
• Pin:	Gold Plated BeCu
Socket:	Gold Plated Copper Alloy
Encapsulant:	Ероху



70

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PSM-FF LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":		
Add the total number of contacts		
Add 1 contact cavity for each latch		
Add 1 contact cavity for each guide post		
Total contact cavities		
Multiply the number of contact cavities minus	1 by .025″	
Add .150" for each mounting hole		
Add fixed end length constant		.070″*
Total Length (Dimension A)		

Notes: Maximum length 2.47" (62.74) without mounting holes. Maximum length 2.77" (70.36) with two end mounting holes. Maximum number of contact cavities is 97. Number of contacts must be reduced to accommodate hardware and mounting holes.

* Add 0.095" when an even number of contact cavities is used and the connector has mounting holes. Default locations for guide post holes and latches may be changed by customer.

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DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities minus 1 by .025"	
If hardware features are within the contact area:	
Add .025" for each latch	
Add .025" for each guide post hole	
Total Length (Dimension B)	

Notes: Maximum pad layout length 2.40" (60.96). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



SSO-FF LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts	
Add 1 contact cavity for each latch	
Add 1 contact cavity for each guide post	
Total contact cavities	
Multiply the number of contact cavities minus 1 by .025"	
Add .150" for each mounting hole	
Add fixed end length constant	.070"*
Total Length (Dimension A)	

Notes: Maximum length 2.47" (62.74) without mounting holes. Maximum length 2.77" (70.36) with two end mounting holes. Maximum number of contact cavities is 97. Number of contacts must be reduced to accommodate hardware and mounting holes.

* Add 0.095" when an even number of contact cavities is used and the connector has mounting holes. Default locations for guide post holes and latches may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":
Multiply the number of contact cavities minus 1 by .025"
If hardware features are within the contact area:
Add .025" for each latch
Add .025" for each guide post hole
Total Length (Dimension B)

Notes: Maximum pad layout length 2.40" (60.96). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

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FLEX TAIL (TYPE FF) ORDERING GUIDE



LONG/SHORT ALT. THRU HOLE (TYPE H2)

Dual Row Offset Micro Strip connectors have contacts arranged on .050" (1.27 mm) centerlines. The thru-hole tails are arranged in a .50" x .075" grid, allowing space for traces and annular rings. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system which meets the performance specifications of MIL-DTL-83513. These durable light weight connectors are designed to withstand the most demanding applications.

Available with mounting holes suitable for PCB and flex mounting. These connectors are available in standard sizes ranging from 2 through 97 positions as well as custom configurations.



ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	3 AMPs max per contact
Voltage Rating (DWV):	600 VAC RMS Sea Level
Insulation Resistance:	5000 Megohms min @ 500 VDC
Shock:	50 g's discontinuity < 1 microsecond
Vibration:	20 g's discontinuity < 1 microsecond
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	26 Milliohms (65 mV max @ 2.5 amp)
Mating/Unmating Force:	3 oz (85 g) typical per contact

MATERIAL SPECIFICATIONS

Standard Socket PCB Tail Termination:	Soldered per J-STD-006 (Non-RoHS)
Standard Pin PCB Tail Termination:	Solder plated per AMS-P-81728 (Non-RoHS)
RoHS Pin PCB Tail Termination:	Hard gold plated per ASTM B488
RoHS Socket PCB Tail Termination:	Hard gold plated per ASTM B488
Insulator:	Polyphenylene Sulfide per MIL-M-24519
• Pin:	Gold Plated BeCu
Socket:	Gold Plated Copper Alloy
Encapsulant:	Ероху



PSM-H2 LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":		
Add the total number of contacts		
Add 1 contact cavity for each latch		
Add 1 contact cavity for each guide post		
Total contact cavities		
Multiply the number of contact cavities minus 1	by .025"	
Add .150" for each mounting hole		
Add fixed end length constant		.070″*
Total Length (Dimension A)		

Notes: Maximum length 2.47" (62.74) without mounting holes. Maximum length 2.77" (70.36) with two end mounting holes. Maximum number of contact cavities is 97. Number of contacts must be reduced to accommodate hardware and mounting holes.

* Add 0.095" when an even number of contact cavities is used and the connector has mounting holes. Default locations for guide post holes and latches may be changed by customer.

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DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities minus 1 by .025"	
If hardware features are within the contact area:	
Add .025" for each latch	
Add .025" for each guide post hole	
Total Length (Dimension B)	

Notes: Maximum pad layout length 2.40" (60.96). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



SSO-H2 LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts	
Add 1 contact cavity for each latch	
Add 1 contact cavity for each guide post	
Total contact cavities	
Multiply the number of contact cavities minus 1 by .025"	
Add .150" for each mounting hole	
Add fixed end length constant	.070"*
Total Length (Dimension A)	

Notes: Maximum length 2.47" (62.74) without mounting holes. Maximum length 2.77" (70.36) with two end mounting holes. Maximum number of contact cavities is 97. Number of contacts must be reduced to accommodate hardware and mounting holes.

* Add 0.095" when an even number of contact cavities is used and the connector has mounting holes. Default locations for guide post holes and latches may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities minus 1 by .025"	
If hardware features are within the contact area:	
Add .025" for each latch	
Add .025" for each guide post hole	
Total Length (Dimension B)	

Notes: Maximum pad layout length 2.40" (60.96). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

OMNETICS CONNECTOR CORPORATION

SHORT/LONG ALT. THRU HOLE TAIL (TYPE H2) ORDERING GUIDE





SOLDER CUP (TYPE SS)

Solder Cup Tails are commonly used for hand soldering applications, and/or specific wire based devices that require a small robust connector during one of the final phases of production. These connectors feature Omnetics' gold plated Flex Pin contact system which meets the performance specifications of MIL-DTL-83513. They are available with mounting holes suitable for PCB and flex mounting.

These connectors are available in standard sizes ranging from 2 through 97 positions as well as custom configurations and accept 26 AWG or smaller stranded wire.

ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	3 AMPs max per contact
Voltage Rating (DWV):	600 VAC RMS Sea Level
Insulation Resistance:	5000 Megohms min @ 500 VDC
Shock:	50 g's discontinuity < 1 microsecond
Vibration:	20 g's discontinuity < 1 microsecond
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	26 Milliohms (65 mV max @ 2.5 amp)
Mating/Unmating Force:	3 oz (85 g) typical per contact

MATERIAL SPECIFICATIONS

Standard Socket Soldercup Termination:	Hard Gold Plated per ASTM B488
Standard Socket PCB Tail Termination:	Soldered per J-STD-006 (Non-RoHS)
Standard Soldercup Termination:	Solder plated per AMS-P-81728 (Non-RoHS)
RoHS Pin Soldercup Termination:	Hard gold plated per ASTM B488
RoHS Socket Soldercup Termination:	Hard gold plated per ASTM B488
Insulator:	Polyphenylene Sulfide per MIL-M-24519
• Pin:	Gold Plated BeCu
Socket:	Gold Plated Copper Alloy
Encapsulant:	Ероху



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PSM-SS LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":						
Add the total number of contacts				_		
Add 1 contact cavity for each latch						
Add 1 contact cavity for each guide p	oost ho	le		_		
Total contact cavities						
Subtract 1 from the total to get the n	umber	of cavity spaces and r	nultiply by	.025″		
Add .150" for each mounting hole						
Add fixed end length constant				0	.070	/"*
Total Length (Dimension A):						

Notes: Maximum length 2.47" (62.74) without mounting holes. Maximum length 2.77" (70.36) with two end mounting holes. Maximum number of contact cavities is 97. Number of contacts must be reduced to accommodate hardware and mounting holes. * Add 0.095" when an even number of contact cavities is used and the connector has mounting holes. Default locations for guide post holes and latches may be changed by customer. Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

SSO-SS LAYOUT



Add the total humber of contacts	
Add 1 contact cavity for each latch	
Add 1 contact cavity for each guide post hole	
Total contact cavities	
Subtract 1 from the total to get the number of cavity spaces and multiply by .025'	
Add .150" for each mounting hole	
Add fixed end length constant	0.070″
Total Length (Dimension A):	

Notes: Maximum length 2.47" (62.74) without mounting holes. Maximum length 2.77" (70.36) with two end mounting holes. Maximum number of contact cavities is 97. Number of contacts must be reduced to accommodate hardware and mounting holes. * Add 0.095" when an even number of contact cavities is used and the connector has mounting holes. Default locations for guide post holes and latches may be changed by customer. Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



SOLDER CUP (TYPE SS) ORDERING GUIDE



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VERTICAL SMT (TYPE VV)

Vertical SMT Micro Strip connectors require a minimal amount of board space on flex circuits and rigid circuit boards. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system which meets the performance specifications of MIL-DTL-83513. These rugged light weight connectors are suitable for the most demanding applications. Available with mounting holes and suitable for PCB and flex mounting.

These connectors are available in standard sizes ranging from 2 through 97 positions as well as custom configurations.



ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	3 AMPs max per contact
Voltage Rating (DWV):	600 VAC RMS Sea Level
Insulation Resistance:	5000 Megohms min @ 500 VDC
Shock:	50 g's discontinuity < 1 microsecond
Vibration:	20 g's discontinuity < 1 microsecond
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	26 Milliohms (65 mV max @ 2.5 amp)
Mating/Unmating Force:	3 oz (85 g) typical per contact

MATERIAL SPECIFICATIONS

Standard Socket PCB Tail Termination:	Soldered per J-STD-006 (Non-RoHS)
Standard Pin PCB Tail Termination:	Solder plated per AMS-P-81728 (Non-RoHS)
RoHS Pin PCB Tail Termination:	Hard gold plated per ASTM B488
RoHS Socket PCB Tail Termination:	Hard gold plated per ASTM B488
Insulator:	Polyphenylene Sulfide per MIL-M-24519
• Pin:	Gold Plated BeCu
Socket:	Gold Plated Copper Alloy
Encapsulant:	Ероху



82

PSM-VV LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts	
Add 1 contact cavity for each latch	
Add 1 contact cavity for each guide post	
Total contact cavities	
Multiply the number of contact cavities minus 1 by .025"	
Add .150" for each mounting hole	
Add fixed end length constant	.070″*
Total Length (Dimension A)	

Notes: Maximum length 2.47" (62.74) without mounting holes. Maximum length 2.77" (70.36) with two end mounting holes. Maximum number of contact cavities is 97. Number of contacts must be reduced to accommodate hardware and mounting holes.

* Add 0.095" when an even number of contact cavities is used and the connector has mounting holes. Default locations for guide post holes and latches may be changed by customer.

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DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities minus 1 by .025"	
If hardware features are within the contact area:	
Add .025" for each latch	
Add .025" for each guide post hole	
Total Length (Dimension B)	

Notes: Maximum pad layout length 2.40" (60.96). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



SSO-VV LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts	
Add 1 contact cavity for each latch	
Add 1 contact cavity for each guide post	
Total contact cavities	
Multiply the number of contact cavities minus 1 by .025"	
Add .150" for each mounting hole	
Add fixed end length constant	.070″*
Total Length (Dimension A)	

Notes: Maximum length 2.47" (62.74) without mounting holes. Maximum length 2.77" (70.36) with two end mounting holes. Maximum number of contact cavities is 97. Number of contacts must be reduced to accommodate hardware and mounting holes.

* Add 0.095" when an even number of contact cavities is used and the connector has mounting holes. Default locations for guide post holes and latches may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities minus 1 by .025"	
If hardware features are within the contact area:	
Add .025″ for each latch	
Add .025" for each guide post hole	
Total Length (Dimension B)	

Notes: Maximum pad layout length 2.40" (60.96). Add .100" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole or latch, .100" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

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VERTICAL SMT (TYPE VV) ORDERING GUIDE



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OMNETICS

PRE-WIRED/CABLE (TYPE WD/WC)

Pre-wired offset Dual Row Micro Strip connectors are available with 26 AWG to 32 AWG stranded wire. These assemblies are crimped using proprietary semi-automated crimping systems. Due to the small size and precision required to make these quality crimps, hand crimping is not an option. Pre-crimped wires and contacts are potted in place, further protecting the integrity of the crimp joint. Building these parts to order allows for maximum flexibility in wire type, size and color coding. Commercial Off The Shelf (COTS) versions are also available with 18" of color coded 26 AWG Teflon for quick turn around.

These connectors are available in standard sizes ranging from 2 through 97 positions as well as custom configurations.

ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	3 AMPs max per contact
Voltage Rating (DWV):	600 VAC RMS Sea Level
Insulation Resistance:	5000 Megohms min @ 500 VDC
Shock:	50 g's discontinuity < 1 microsecond
Vibration:	20 g's discontinuity < 1 microsecond
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	26 Milliohms (65 mV max @ 2.5 amp)
Mating/Unmating Force:	3 oz (85 g) typical per contact

MATERIAL SPECIFICATIONS

Standard Wire:	26 AWG, Teflon Insulated per NEMA-HP3
Insulator:	Polyphenylene Sulfide per MIL-M-24519
• Pin:	Gold Plated BeCu
Socket:	Gold Plated Copper Alloy
Encapsulant:	Ероху



PSM-WD/WC LAYOUT



Notes: Maximum length 2.47" (62.74) without mounting holes. Maximum length 2.77" (70.36) with two end mounting holes. Maximum number of contact cavities is 97. Number of contacts must be reduced to accommodate hardware and mounting holes. * Add 0.095" when an even number of contact cavities is used and the connector has mounting holes. Default locations for guide post holes and latches may be changed by customer. Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

SSO-WD/WC LAYOUT



Notes: Maximum length 2.47" (62.74) without mounting holes. Maximum length 2.77" (70.36) with two end mounting holes. Maximum number of contact cavities is 97. Number of contacts must be reduced to accommodate hardware and mounting holes. * Add 0.095" when an even number of contact cavities is used and the connector has mounting holes. Default locations for guide post holes and latches may be changed by customer. Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

Add fixed end length constant

Total Length (Dimension A):



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0.070"*

PRE-WIRED/CABLE (TYPE WD/WC) ORDERING GUIDE



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OMNETICS

Flex Pin - Nano

THE FLEX PIN DESIGN

Designed Simply for High Shock & Vibration

Omnetics' Flex Pin contact design was designed and produced many years before the creation of MIL-DTL-32139. This simple one piece design is stamped from ASTM B194 BeCu. The spring characteristic of BeCu is ideal for withstanding high shock and vibration.



The Flex Pin contact is intermateable with

all MIL- DTL-32139 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 μ m) of gold over 50 micro inches (1.27 μ m) of nickel. All pins are plated post forming to ensure a non-porous surface.

90

FLEX PIN

The Omnetics Nano Flex Pin has been in successful production for 50 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.

Nano Flex Pins are rated at 1 AMP each and are the foundation of our Nano-D/Bi-Lobe[®] & MIL-DTL-32139 series of connectors.

NANO FLEX PIN



MARCON CONTRACTOR

HORIZONTAL SMT (TYPE AA)

Single Row Horizontal Nano Strip connectors offer an extremely low profile package that is well suited for pick and place methods. They have a very tight pitch of .025" (64 mm) centerlines. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system, conforming to the requirements of MIL-DTL-32139. These durable lightweight connectors are perfect for the most demanding applications.

These connectors are available in standard sizes ranging from 2 to 60 positions, as well as custom configurations.

ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	1 AMP per contact
Voltage Rating (DWV):	250 VAC RMS Sea Level
Insulation Resistance:	5,000 Megohms min @ 100 VDC
Shock:	_100 G's discontinuity < 10 nanoseconds
Vibration:	20 G's discontinuity < 10 nanoseconds
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	_71 Milliohms max (71 mV max @ 1 AMP)
Mating/Unmating Force:	2.5 oz (71 g) typical per contact

MATERIAL SPECIFICATIONS

- Standard Socket PCB Tail Termination:
 Standard Pin PCB Tail Termination:
 Solder plated per AMS-P-81728 (Non-RoHS)
 RoHS Pin PCB Tail Termination:
 Hard gold plated per ASTM B488
 RoHS Socket PCB Tail Termination:
 Hard gold plated per ASTM B488
- Insulator:
- Pin:_
- Socket:
- Encapsulant:______

- Polyphenylene Sulfide per MIL-M-24519
- Gold Plated BeCu
 - _Gold Plated Copper Alloy
- Ероху



NPS-AA LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts	
Add 1 contact cavity for each guide post hole	
Add 3 contact cavities for each mounting hole	
Total contact cavities	
Multiply the number of contact cavities minus 1 by .025"	
Add fixed end length constant	.040″
Total Length (Dimension A)	

Notes: Maximum length @ .050" thick = 1.015" (25.78). Maximum number of contact cavities is 60. Maximum length @ .060" thick = 1.515" (38.48). Number of contacts must be reduced to accommodate guide post holes and mounting holes. Default locations for guide post holes may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities minus 1 by .025"	
If hardware features are within the contact area:	
Add .025" (1 contact cavity) for each guide post hole	
Add .075" (3 contact cavities) for each mounting hole	
Total Length (Dimension B)	

Notes: Maximum pattern length @ .050" thick is .975" (24.76). Maximum pattern length @ .060" thick is 1.475" (37.46). Add .050" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole, .050" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

OMNETICS

NSS-AA LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":		
Add the total number of contacts		
Add 1 contact cavity for each guide post hole		
Add 3 contact cavities for each mounting hole		
Total contact cavities		
Multiply the number of contact cavities minus	1 by .025″	
Add fixed end length constant		.040″
Total Length (Dimension A)		

Notes: Maximum length @ .050" thick = 1.015"(25.78). Maximum number of contact cavities is 60. Maximum length @ .060" thick = 1.515"(38.48). Number of contacts must be reduced to accommodate guide post holes and mounting holes. Default locations for guide post holes may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B": Multiply the number of contact cavities minus 1 by .025" If hardware features are within the contact area: Add .025" (1 contact cavity) for each guide post hole Total Length (Dimension B)

Notes: Maximum pattern length @ .050" thick is .975" (24.76). Maximum pattern length @ .060" thick is 1.475" (37.46).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



HORIZONTAL SMT (TYPE AA) ORDERING GUIDE



Email: sales@omnetics.com

www.omnetics.com

OR CORPORATION

STRAIGHT TAIL (TYPE DD)

Single Row Nano Strip connectors can be loaded with simple straight tails (Integral or Crimped). Suitable for vertical thruhole mounting to fine pitched flex circuits, they are designed on .025" (.64 mm) centerlines. The straight solid tails are also commonly used in ultra fine wire wrap terminations, such as electrophysiology. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system conforming to the requirements of MIL-DTL-32139. These connectors are available in standard sizes ranging from 2 through 60 positions as well as custom configurations.

Flex design and installation service is also available from Omnetics. Please contact us for more information.



ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	1 AMP per contact
Voltage Rating (DWV):	250 VAC RMS Sea Level
Insulation Resistance:	5,000 Megohms min @ 100 VDC
Shock:	100 G's discontinuity < 10 nanoseconds
Vibration:	20 G's discontinuity < 10 nanoseconds
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	71 Milliohms max (71 mV max @ 1 AMP)
Mating/Unmating Force:	2.5 oz (71 g) typical per contact

MATERIAL SPECIFICATIONS

- Standard Socket PCB Tail Termination:
 Standard Pin PCB Tail Termination:
 Solder plated per AMS-P-81728 (Non-RoHS)
 RoHS Pin PCB Tail Termination:
 Hard gold plated per ASTM B488
 RoHS Socket PCB Tail Termination:
 Hard gold plated per ASTM B488
- Insulator:
- Pin:_
- Socket:_____
- Encapsulant:_______

- Polyphenylene Sulfide per MIL-M-24519
- Gold Plated BeCu
 - Gold Plated Copper Alloy
- Ероху



NPS-DD LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts	
Add 1 contact cavity for each guide post hole	
Add 3 contact cavities for each mounting hole	
Total contact cavities	
Multiply the number of contact cavities minus 1 by .025"	
Add fixed end length constant	.040″
Total Length (Dimension A)	

Notes: Maximum length @ .050" thick = 1.015" (25.78). Maximum number of contact cavities is 60. Maximum length @ .060" thick = 1.515" (38.48). Number of contacts must be reduced to accommodate guide post holes and mounting holes. Default locations for guide post holes may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities minus 1 by .025"	
If hardware features are within the contact area:	
Add .025" (1 contact cavity) for each guide post hole	
Add .075" (3 contact cavities) for each mounting hole	
Total Length (Dimension B)	

Notes: Maximum pattern length @ .050" thick is .975" (24.76). Maximum pattern length @ .060" thick is 1.475" (37.46). Add .050" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole, .050" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

OMNETICS CONNECTOR CORPORATION

NSS-DD LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts	
Add 1 contact cavity for each guide post hole	
Add 3 contact cavities for each mounting hole	
Total contact cavities	
Multiply the number of contact cavities minus 1 by .025"	
Add fixed end length constant	.040″
Total Length (Dimension A)	

Notes: Maximum length @ .050" thick = 1.015"(25.78). Maximum number of contact cavities is 60. Maximum length @ .060" thick = 1.515"(38.48). Number of contacts must be reduced to accommodate guide post holes and mounting holes. Default locations for guide post holes may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B": Multiply the number of contact cavities minus 1 by .025" If hardware features are within the contact area: Add .025" (1 contact cavity) for each guide post hole Total Length (Dimension B)

Notes: Maximum pattern length @ .050" thick is .975" (24.76). Maximum pattern length @ .060" thick is 1.475" (37.46).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



STRAIGHT TAIL (TYPE DD) ORDERING GUIDE



OR CORPORATION

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LONG/SHORT ALT. THRU-HOLE (TYPE H2)

The Single Row Nano Strip connectors have contacts arranged on .025 (.64 mm) centerlines. The thru-hole tails are arranged in a .050" x .0.50" grid, allowing space for traces and annular rings. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system, conforming to the requirements of MIL-DTL-32139. These durable lightweight connectors are perfect for the most demanding applications. They are available with mounting holes suitable for PCB and flex mounting.

These connectors are available in standard sizes ranging from 2 to 60 positions, as well as custom configurations.



ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	1 AMP per contact
Voltage Rating (DWV):	250 VAC RMS Sea Level
Insulation Resistance:	5,000 Megohms min @ 100 VDC
Shock:	100 G's discontinuity < 10 nanoseconds
Vibration:	20 G's discontinuity < 10 nanoseconds
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	71 Milliohms max (71 mV max @ 1 AMP)
Mating/Unmating Force:	2.5 oz (71 g) typical per contact

MATERIAL SPECIFICATIONS

- Standard Socket PCB Tail Termination: Soldered per J-STD-006 (Non-RoHS) • Standard Pin PCB Tail Termination: Solder plated per AMS-P-81728 (Non-RoHS) RoHS Pin PCB Tail Termination: Hard gold plated per ASTM B488 Hard gold plated per ASTM B488
- RoHS Socket PCB Tail Termination:
- Insulator:
- Pin:
- Socket:
- Encapsulant:

- Polyphenylene Sulfide per MIL-M-24519
- Gold Plated BeCu
- Gold Plated Copper Alloy
- Epoxy

NPS-H2 LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts	
Add 1 contact cavity for each guide post hole	
Add 3 contact cavities for each mounting hole	
Total contact cavities	
Multiply the number of contact cavities minus 1 by .025"	
Add fixed end length constant	.040″
Total Length (Dimension A)	

Notes: Maximum length @ .050" thick = 1.015" (25.78). Maximum number of contact cavities is 60. Maximum length @ .060" thick = 1.515" (38.48). Number of contacts must be reduced to accommodate guide post holes and mounting holes. Default locations for guide post holes may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities minus 1 by .025"	
If hardware features are within the contact area:	
Add .025" (1 contact cavity) for each guide post hole	
Add .075" (3 contact cavities) for each mounting hole	
Total Length (Dimension B)	

Notes: Maximum pattern length @ .050" thick is .975" (24.76). Maximum pattern length @ .060" thick is 1.475" (37.46). Add .050" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole, .050" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

OMNETICS

NSS-H2 LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts	
Add 1 contact cavity for each guide post hole	
Add 3 contact cavities for each mounting hole	
Total contact cavities	
Multiply the number of contact cavities minus 1 by .025"	
Add fixed end length constant	.040″
Total Length (Dimension A)	

Notes: Maximum length @ .050" thick = 1.015" (25.78). Maximum number of contact cavities is 60. Maximum length @ .060" thick = 1.515" (38.48). Number of contacts must be reduced to accommodate guide post holes and mounting holes. Default locations for guide post holes may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B": Multiply the number of contact cavities minus 1 by .025" If hardware features are within the contact area: Add .025" (1 contact cavity) for each guide post hole Total Length (Dimension B)

Notes: Maximum pattern length @ .050" thick is .975" (24.76). Maximum pattern length @ .060" thick is 1.475" (37.46).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

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SHORT/LONG ALT. THRU HOLE TAIL (TYPE H2) ORDERING GUIDE



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VERTICAL SMT (TYPE VV)

The Single Row VV Nano Strip connectors have contacts arranged on .025 (.64 mm) centerlines. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system, conforming to the requirements of MIL-DTL-32139. These durable lightweight connectors are perfect for the most demanding applications.

These connectors are available in standard sizes ranging from 2 to 60 positions, as well as custom configurations.



ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	1 AMP per contact
Voltage Rating (DWV):	250 VAC RMS Sea Level
Insulation Resistance:	5,000 Megohms min @ 100 VDC
Shock:	100 G's discontinuity < 10 nanoseconds
Vibration:	20 G's discontinuity < 10 nanoseconds
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	71 Milliohms max (71 mV max @ 1 AMP)
Mating/Unmating Force:	2.5 oz (71 g) typical per contact

MATERIAL SPECIFICATIONS

- Standard Socket PCB Tail Termination:
 Standard Pin PCB Tail Termination:
 RoHS Pin PCB Tail Termination:
 RoHS Socket PCB Tail Termination:
 Hard gold plated per ASTM B488
 RoHS Socket PCB Tail Termination:
 Hard gold plated per ASTM B488
- Insulator:
- Pin:_
- Socket:

Polyphenylene Sulfide per MIL-M-24519

NNECTOR CORPORATI

- __Gold Plated BeCu
- Gold Plated Copper Alloy
- Ероху

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NPS-VV LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts	
Add 1 contact cavity for each guide post hole	
Add 3 contact cavities for each mounting hole	
Total contact cavities	
Multiply the number of contact cavities minus 1 by .025"	
Add fixed end length constant	.040″
Total Length (Dimension A)	

Notes: Maximum length @ .050" thick = 1.015" (25.78). Maximum number of contact cavities is 60. Maximum length @ .060" thick = 1.515" (38.48). Number of contacts must be reduced to accommodate guide post holes and mounting holes. Default locations for guide post holes may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contact cavities minus 1 by .025"	
If hardware features are within the contact area:	
Add .025" (1 contact cavity) for each guide post hole	
Add .075" (3 contact cavities) for each mounting hole	
Total Length (Dimension B)	

Notes: Maximum pattern length @ .050" thick is .975" (24.76). Maximum pattern length @ .060" thick is 1.475" (37.46). Add .050" from center of mounting hole to first pad (if the first contact cavity is used for a guide post hole, .050" dimension must be adjusted).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

OMNETICS CONNECTOR CORPORATION

NSS-VV LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts	
Add 1 contact cavity for each guide post hole	
Add 3 contact cavities for each mounting hole	
Total contact cavities	
Multiply the number of contact cavities minus 1 by .025"	
Add fixed end length constant	.040″
Total Length (Dimension A)	

Notes: Maximum length @ .050" thick = 1.015"(25.78). Maximum number of contact cavities is 60. Maximum length @ .060" thick = 1.515"(38.48). Number of contacts must be reduced to accommodate guide post holes and mounting holes. Default locations for guide post holes may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B": Multiply the number of contact cavities minus 1 by .025" If hardware features are within the contact area: Add .025" (1 contact cavity) for each guide post hole Total Length (Dimension B)

Notes: Maximum pattern length @ .050" thick is .975" (24.76). Maximum pattern length @ .060" thick is 1.475" (37.46).

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



VERTICAL SURFACE MOUNT TAIL (TYPE VV) ORDERING GUIDE



OMNETICS

PRE-WIRED/CABLE (TYPE WD/WC)

Pre-wired Single Row Nano Strip connectors are available with 30 AWG or smaller stranded wire. These assemblies are crimped using proprietary semi-automated crimping systems. Due to their small size and precision required to make these quality crimps, hand crimping is not an option. Precrimped wires and contacts are potted in place further protecting the integrity of the crimp joint. Building these parts to order allows for maximum flexibility in wire type, size and color coding. Commercial Off The Shelf (COTS) versions are also available with 18" of color coded 30 AWG Teflon[®] wire for quick turn around.

These connectors are available in standard sizes ranging from 2 through 60 positions as well as custom configurations.

ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	1 AMP per contact
Voltage Rating (DWV):	250 VAC RMS Sea Level
Insulation Resistance:	_5,000 Megohms min @ 100 VDC
Shock:	_100 G's discontinuity < 10 nanoseconds
Vibration:	_20 G's discontinuity < 10 nanoseconds
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	_71 Milliohms max (71 mV max @ 1 AMP)
Mating/Unmating Force:	2.5 oz (71 g) typical per contact

MATERIAL SPECIFICATIONS

Standard Wire:Insulator:	32 AWG, Teflon Insulated per NEMA-HP3 Polyphenylene Sulfide per MIL-M-24519
• Pin:	Gold Plated BeCu
Socket:	Gold Plated Copper Alloy
Encapsulant:	Ероху



NPS-WD/WC LAYOUT



Total contact cavities

Subtract 1 from the total to get the number of cavity spaces and mulitply by .025" Add fixed end length constant Total Length (Dimension A):

Notes: Maximum length @ .050" thick = 1.015" (25.78). Maximum number of contact cavities is 60. Maximum length @ .060" thick = 1.515" (38.48). Number of contacts must be reduced to accommodate guide post holes and mounting holes. Default locations for guide post holes may be changed by customer. Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



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.040
Single Row Nano Strip

NSS-WD/WC LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts	
Add 1 contact cavity for each guide post	
Total contact cavities	
Subtract 1 from the total to get the number of cavity spaces and mulitply by .025"	
Add fixed end length constant	.040
Total Length (Dimension A):	

Notes: Maximum length @ .050" thick = 1.015" (25.78). Maximum number of contact cavities is 60. Maximum length @ .060" thick = 1.515" (38.48). Number of contacts must be reduced to accommodate guide post holes and mounting holes. Default locations for guide post holes may be changed by customer. Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



Single Row Nano Strip

PRE-WIRED/CABLE (TYPE WD/WC) ORDERING GUIDE



OMNETICS CONNECTOR CORPORATION

HORIZONTAL SMT (TYPE AA)

Dual Row Horizontal Nano Strip connectors offer an extremely low profile package that is well suited to pick and place methods. They have a very tight pitch of .025" (.64 mm) centerlines. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system, conforming to the requirements of MIL-DTL-32139. These durable lightweight connectors are perfect for the most demanding applications.

These connectors are available in standard sizes ranging from 2 to 80 positions, as well as custom configurations.

ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	55°C to +125 °C (200 °C w/HTE)
Current rating:	1 AMP per contact
Voltage Rating (DWV):	250 VAC RMS Sea Level
Insulation Resistance:	5,000 Megohms min @ 100 VDC
Shock:	100 G's discontinuity < 10 nanoseconds
Vibration:	_20 G's discontinuity < 10 nanoseconds
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	_71 Milliohms max (71 mV max @ 1 AMP)
Mating/Unmating Force:	2.5 oz (71 g) typical per contact

MATERIAL SPECIFICATIONS

- Standard Socket PCB Tail Termination: ________ Soldered per J-STD-006 (Non-RoHS)
 Standard Pin PCB Tail Termination: _______ Solder plated per AMS-P-81728 (Non-RoHS)
- Standard Pin PCB Tail Termination:
 RoHS Pin PCB Tail Termination:
 - RoHS Socket PCB Tail Termination:
 - Insulator:
 - Pin:_
 - Socket:

- Hard gold plated per ASTM B488
- Polyphenylene Sulfide per MIL-M-24519

Hard gold plated per ASTM B488

- __Gold Plated BeCu
- Gold Plated Copper Alloy
- Ероху



NPD-AA LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts in one row	
Add 1 contact cavity for each guide post hole in the same row	
Total contact cavities in a single row	
Multiply the number of contact cavities minus 1 by .025"	
Add fixed end length constant	.040″
Total Length (Dimension A)	

Notes: Maximum length .615" (15.62). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes. Default locations for guide post holes may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":		
Multiply the number of contacts in one row minus 1 by .025"		
If hardware features are within the contact area:		
Add .025" for each guide post hole in the same row		
Total Length (Dimension B)		

Notes: Maximum length .575" (14.61). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes.

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

OMNETICS

NSD-AA LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts in one row	
Add 1 contact cavity for each guide post hole in the same row	
Total contact cavities in a single row	
Multiply the number of contact cavities minus 1 by .025"	
Add fixed end length constant	.040″
Total Length (Dimension A)	

Notes: Maximum length .615" (15.62). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes. Default locations for guide post holes may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the total number of contacts in one row minus 1 by .025"	
If hardware features are within the contact area:	
Add .025" for each guide post hole in the same row	
Total Length (Dimension B)	

Notes: Maximum length .575" (14.61). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes.

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



HORIZONTAL SMT (TYPE AA) ORDERING GUIDE



NECTOR CORPORATION

Phone: +1 763.572.0656 Fax: 763.572.3925 Email: sales@omnetics.com www.omnetics.com

STRAIGHT TAIL (TYPE DD)

Dual Row Nano Strip connectors are configured with simple straight tails (Integral and Crimped). Suitable for vertical thru-hole mounting to fine pitched flex circuits, these ruggedized Nano connectors are designed on .025" (.64 mm) centerlines. Straight tails are commonly used in a variety of wrap termination such as neuroscience related applications. These connectors feature Omnetics' gold plated Flex Pin contact system that conforms to the requirements of MIL-DTL-32139. These connectors are available in standard sizes ranging from 2 through 80 positions as well as custom configurations.

Flex design and installation service is also available from Omnetics. Please contact us for more information.

ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	1 AMP per contact
Voltage Rating (DWV):	250 VAC RMS Sea Level
Insulation Resistance:	5,000 Megohms min @ 100 VDC
Shock:	100 G's discontinuity < 10 nanoseconds
Vibration:	20 G's discontinuity < 10 nanoseconds
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	71 Milliohms max (71 mV max @ 1 AMP)
Mating/Unmating Force:	2.5 oz (71 g) typical per contact

MATERIAL SPECIFICATIONS

- Standard Socket PCB Tail Termination: _______ Soldered per J-STD-006 (Non-RoHS)
- Standard Pin PCB Tail Termination: _______ Solder plated per AMS-P-81728 (Non-RoHS)
 RoHS Pin PCB Tail Termination: _______ Hard gold plated per ASTM B488
 - RoHS Socket PCB Tail Termination:_
 - Insulator:
 - Pin:_
 - Socket:

Polyphenylene Sulfide per MIL-M-24519

Hard gold plated per ASTM B488

- __Gold Plated BeCu
- Gold Plated Copper Alloy
- Ероху

NPD-DD LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":		
Add the total number of contacts in one row		
Add 1 contact cavity for each guide post hole in the same	row	
Total contact cavities in a single row		
Multiply the number of contact cavities minus 1 by .025"		
Add fixed end length constant		.040″
Total Length (Dimension A)		

Notes: Maximum length .615" (15.62). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes. Default locations for guide post holes may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the number of contacts in one row minus 1 by .025"	
If hardware features are within the contact area:	
Add .025" for each guide post hole in the same row	
Total Length (Dimension B)	

Notes: Maximum length .575" (14.61). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes.

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

OMNETICS

NSD-DD LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts in one row	
Add 1 contact cavity for each guide post hole in the same row	
Total contact cavities in a single row	
Multiply the number of contact cavities minus 1 by .025"	
Add fixed end length constant	.040″
Total Length (Dimension A)	

Notes: Maximum length .615" (15.62). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes. Default locations for guide post holes may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":	
Multiply the total number of contacts in one row minus 1 by .025"	
If hardware features are within the contact area:	
Add .025" for each guide post hole in the same row	
Total Length (Dimension B)	

Notes: Maximum length .575" (14.61). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes.

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



NECTOR CORPORATION

STRAIGHT TAIL (TYPE DD) ORDERING GUIDE



Phone: +1 763.572.0656 Fax: 763.572.3925 Email: sales@omnetics.com www.omnetics.com

FLEX TAIL (TYPE FF)

Flex Mount Nano Strip connectors are a low profile ruggedized connector spaced on .025" (.64 mm) centerlines. The flex tails are formed together in an hourglass shape, allowing a double sided flex circuit to slide between the 2 rows. The spring tension holds the flex in place during the soldering process. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system conforming to the requirements of MIL-DTL-32139. These durable lightweight connectors are suitable for the most demanding applications. These connectors are available in standard sizes ranging from 2 through 80 positions as well as custom configurations.

Flex design and installation service is also available from Omnetics. Please contact us for more information.

ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	1 AMP per contact
Voltage Rating (DWV):	250 VAC RMS Sea Level
Insulation Resistance:	5,000 Megohms min @ 100 VDC
Shock:	_100 G's discontinuity < 10 nanoseconds
Vibration:	20 G's discontinuity < 10 nanoseconds
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	_71 Milliohms max (71 mV max @ 1 AMP)
Mating/Unmating Force:	_2.5 oz (71 g) typical per contact

MATERIAL SPECIFICATIONS

- Standard Socket PCB Tail Termination: Soldered per J-STD-006 (Non-RoHS) • Standard Pin PCB Tail Termination: Solder plated per AMS-P-81728 (Non-RoHS) Hard gold plated per ASTM B488
- RoHS Pin PCB Tail Termination:
- RoHS Socket PCB Tail Termination:
- Insulator:
- Pin:
- Socket:
- Encapsulant:

Polyphenylene Sulfide per MIL-M-24519

Hard gold plated per ASTM B488

- Gold Plated BeCu
 - Gold Plated Copper Alloy
- Epoxy



NPD-FF LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts in one row	
Add 1 contact cavity for each guide post hole in the same row	
Total contact cavities in a single row	
Multiply the number of contact cavities minus 1 by .025"	
Add fixed end length constant	.040″
Total Length (Dimension A)	

Notes: Maximum length .615" (15.62). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes. Default locations for guide post holes may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":		
Multiply the number of contacts in one row minus 1 by .025"		
If hardware features are within the contact area:		
Add .025" for each guide post hole in the same row		
Total Length (Dimension B)		

Notes: Maximum length .575" (14.61). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes.

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

OMNETICS CONNECTOR CORPORATION

NSD-FF LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts in one row	
Add 1 contact cavity for each guide post hole in the same row	
Total contact cavities in a single row	
Multiply the number of contact cavities minus 1 by .025"	
Add fixed end length constant	.040″
Total Length (Dimension A)	

Notes: Maximum length .615" (15.62). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes. Default locations for guide post holes may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B": Multiply the total number of contacts in one row minus 1 by .025" If hardware features are within the contact area: Add .025" for each guide post hole in the same row Total Length (Dimension B)

Notes: Maximum length .575" (14.61). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes.

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



FLEX TAIL (TYPE FF) ORDERING GUIDE



NECTOR CORPORATION

Phone: +1 763.572.0656 Fax: 763.572.3925 Email: sales@omnetics.com www.omnetics.com

HORIZONTAL THRU-HOLE (TYPE H2)

The Dual Row horizontal Thru-Hole Nano Strip connectors have contacts arranged on .025 (.64 mm) centerlines. Thru-Hole tails are arranged in a .025 x .50" grid, allowing space for traces and annular rings. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system, conforming to requirements of MIL-DTL-32139. These durable lightweight connectors are perfect for the most demanding applications. They are available with mounting holes suitable for PCB and flex mounting.

These connectors are available in standard sizes ranging from 2 to 80 positions, as well as custom configurations.

ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	1 AMP per contact
Voltage Rating (DWV):	250 VAC RMS Sea Level
Insulation Resistance:	5,000 Megohms min @ 100 VDC
Shock:	_100 G's discontinuity < 10 nanoseconds
Vibration:	20 G's discontinuity < 10 nanoseconds
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	_71 Milliohms max (71 mV max @ 1 AMP)
Mating/Unmating Force:	2.5 oz (71 g) typical per contact

MATERIAL SPECIFICATIONS

- Standard Socket PCB Tail Termination: Soldered per J-STD-006 (Non-RoHS)
 Standard Pin PCB Tail Termination: Solder plated per AMS-P-81728 (Non-RoHS)
 RoHS Pin PCB Tail Termination: Hard gold plated per ASTM B488
 RoHS Socket PCB Tail Termination: Hard gold plated per ASTM B488
- Insulator:
- Pin:__
- Socket:_____

- Polyphenylene Sulfide per MIL-M-24519
- __Gold Plated BeCu
- Gold Plated Copper Alloy
- Ероху

Minneapolis, MN, USA Phone: +1 763.572.0656 Fax: 763.572.3925 Email: sales@omnetics.com www.omnetics.com



23

NPD-H2 LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts in one row	
Add 1 contact cavity for each guide post hole in the same row	
Total contact cavities in a single row	
Multiply the number of contact cavities minus 1 by .025"	
Add fixed end length constant	.040″
Total Length (Dimension A)	

Notes: Maximum length .615" (15.62). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes. Default locations for guide post holes may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B": Multiply the number of contacts in one row minus 1 by .025" If hardware features are within the contact area: Add .025" for each guide post hole in the same row Total Length (Dimension B)

Notes: Maximum length .575" (14.61). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes.

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

OMNETICS

NSD-H2 LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":		
Add the total number of contacts in one row		
Add 1 contact cavity for each guide post hole in t	the same row	
Total contact cavities in a single row		
Multiply the number of contact cavities minus 1 l	by .025″	
Add fixed end length constant		.040″
Total Length (Dimension A)		

Notes: Maximum length .615" (15.62). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes. Default locations for guide post holes may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B": Multiply the total number of contacts in one row minus 1 by .025" ______ If hardware features are within the contact area: Add .025" for each guide post hole in the same row ______ Total Length (Dimension B) ______

Notes: Maximum length .575" (14.61). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes.

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



SHORT/LONG ALT. THRU HOLE TAIL (TYPE H2) ORDERING GUIDE



OMNETICS CONNECTOR CORPORATION

AND SOLON

VERTICAL SMT (TYPE VV)

Vertical SMT Nano Strip connectors require a minimal amount of board space on flex circuits and rigid circuit boards. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system conforming to the requirements of MIL-DTL 32139. These rugged lightweight connectors are suitable for the most demanding applications.

These connectors are available in standard sizes ranging from 2 to 80 positions, as well as custom configurations.



Durability:	2000 Cycles
Temperature:	55°C to +125 °C (200 °C w/HTE)
Current rating:	1 AMP per contact
Voltage Rating (DWV):	250 VAC RMS Sea Level
Insulation Resistance:	_5,000 Megohms min @ 100 VDC
Shock:	100 G's discontinuity < 10 nanoseconds
Vibration:	_20 G's discontinuity < 10 nanoseconds
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	_71 Milliohms max (71 mV max @ 1 AMP)
Mating/Unmating Force:	2.5 oz (71 g) typical per contact

MATERIAL SPECIFICATIONS

- Standard Socket PCB Tail Termination: ______Soldered per J-STD-006 (Non-RoHS)
- Standard Pin PCB Tail Termination:
- RoHS Socket PCB Tail Termination:_
- Insulator:
- Pin:_
- Socket:_____
- Encapsulant:__

Hard gold plated per ASTM B488

Solder plated per AMS-P-81728 (Non-RoHS)

Polyphenylene Sulfide per MIL-M-24519

Hard gold plated per ASTM B488

- ___Gold Plated BeCu
- Gold Plated Copper Alloy
- Ероху



NPD-VV LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts in one row	
Add 1 contact cavity for each guide post hole in the same row	
Total contact cavities in a single row	
Multiply the number of contact cavities minus 1 by .025"	
Add fixed end length constant	.040″
Total Length (Dimension A)	

Notes: Maximum length .615" (15.62). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes. Default locations for guide post holes may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":		
Multiply the number of contacts in one row minus 1 by .025"		
If hardware features are within the contact area:		
Add .025" for each guide post hole in the same row		
Total Length (Dimension B)		

Notes: Maximum length .575" (14.61). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes.

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

OMNETICS CONNECTOR CORPORATION

NSD-VV LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts in one row	
Add 1 contact cavity for each guide post hole in the same row	
Total contact cavities in a single row	
Multiply the number of contact cavities minus 1 by .025"	
Add fixed end length constant	.040″
Total Length (Dimension A)	

Notes: Maximum length .615" (15.62). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes. Default locations for guide post holes may be changed by customer.

DIMENSIONS FOR "B"

To determine pad pattern layout length "B":		
Multiply the total number of contacts in one row minus 1 by .025"		
If hardware features are within the contact area:		
Add .025" for each guide post hole in the same row		
Total Length (Dimension B)		

Notes: Maximum length .575" (14.61). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes.

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



VERTICAL SMT (TYPE VV) ORDERING GUIDE



NECTOR CORPORATION

Phone: +1 763.572.0656 Fax: 763.572.3925 Email: sales@omnetics.com www.omnetics.com

PRE-WIRED/CABLE (TYPE WD/WC)

Pre-wired Dual Row Nano Strip connectors assemblies are crimped using proprietary semiautomated crimping systems. Due to their small size and precision required to make these quality crimps, hand crimping is not an option. Pre-crimped wires and contacts are potted in place further protecting the integrity of the crimp joint. Building these parts to order allows for maximum flexibility in wire type, size and color coding. Commercial Off The Shelf (COTS) versions are also available with 18" of color coded 30 AWG Teflon wire for quick turn around.

These connectors are available in standard sizes ranging from 2 through 48 positions as well as custom configurations, and accept wires 30 AWG to 36 AWG stranded wire.

ELECTRO-MECHANICAL SPECS

Durability:	2000 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	1 AMP per contact
Voltage Rating (DWV):	250 VAC RMS Sea Level
Insulation Resistance:	5,000 Megohms min @ 100 VDC
Shock:	100 G's discontinuity < 10 nanoseconds
Vibration:	20 G's discontinuity < 10 nanoseconds
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	71 Milliohms max (71 mV max @ 1 AMP)
Mating/Unmating Force:	2.5 oz (71 g) typical per contact

MATERIAL SPECIFICATIONS

Ctandard Wine	22 AVA/C Tofler Insulated new NEMA LID2
Standard Wire:	32 AWG, Terion insulated per NEIMA-HP3
Insulator:	Polyphenylene Sulfide per MIL-M-24519
• Pin:	Gold Plate BeCu
• Socket:	Gold Plated Copper Alloy
Encapsulant:	Ероху



NPD-WD/WC LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts in one row	
Add 1 contact cavity for each guide post hole in the same row	
Total contact cavities in a single row	
Subtract 1 from the total to get the number of cavity spaces and mulitply by .025"	
Add fixed end length constant	.040
Total Length (Dimension A):	

Notes: Maximum length .615" (15.62). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes. Default locations for guide post holes may be changed by customer. Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



NSD-WD/WC LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts in one row	
Add 1 contact cavity for each guide post hole in the same row	
Total contact cavities in a single row	
Subtract 1 from the total to get the number of cavity spaces and mulitply by .025"	
Add fixed end length constant	.040
Total Length (Dimension A):	

Notes: Maximum length .615" (15.62). Maximum number of contact cavities is 80. Number of contacts must be reduced to accommodate guide post holes. Default locations for guide post holes may be changed by customer. Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

OF **TERMINATION** WIRE COLOR COMMON SERIES **CONTACTS** TYPE LENGTH CODED **OPTIONS** NPD 02 - 80 18.00 С WD **G** GUIDE POST/HOLE =18.00" PIN **DISCRETE WIRES** 10 REPEATING **GS** MULTIPLE GUIDE POSTS/HOLES CONNECTOR **STANDARD** COLORS PER MIL-STD 681 TW 24 XX.XX **TWISTED WIRES** CUSTOM WC **M** MOUNTING HOLE LENGTH CABLE i.e. 23.40 =23.40" ALL OTHER WIRE COLORS NSD WX SOCKET 32 AWG **MULTIPLE WIRE HT** HIGH TEMP CONNECTOR TYPES Standard/MAX **RoHS** RoHS COMPLIANT RoHS COMPLIANT **CS** CUSTOMER SUPPLIED MATERIAL **EXAMPLES:** NPD-48-WD-18.00-C NSD-34-WD-18.00-C-GS

PRE-WIRED/CABLE (TYPE WD/WC) ORDERING GUIDE

134

JETICS NECTOR CORPORATION

HORIZONTAL SMT (TYPE AA)

The Polarized Nano (PZN) connectors are designed to hold one row of pins and one row of sockets; this configuration polarizes the connector without the extra space needed for guide pins. The Dual Row Horizontal SMT Polarized Nano (PZN) connectors offer an extremely low profile package that is well suited to pick and place methods. They have a very tight pitch of .025" (.64 mm) centerlines. These PZN connectors feature Omnetics' highly reliable gold plated Flex Pin contact system, conforming to the requirements of MIL-DTL-32139. These durable lightweight connectors are perfect for the most demanding applications.

The PZN connectors are available in standard sizes ranging from 4 to 24 positions.



ELECTRO-MECHANICAL SPECS

Durability:	200 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	1 AMP per contact
Voltage Rating (DWV):	250 VAC RMS Sea Level
Insulation Resistance:	5,000 Megohms min @ 100 VDC
Shock:	100 G's discontinuity < 10 nanoseconds
Vibration:	20 G's discontinuity < 10 nanoseconds
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	71 Milliohms max (71 mV max @ 1 AMP)
Mating/Unmating Force:	2.5 oz (71 g) typical per contact

MATERIAL SPECIFICATIONS

Insulator:	Polyphenylene Sulfide per MIL-M-24519
Pin:	Gold Plated BeCu
Socket:	Gold Plated Copper Alloy
Encapsulant:	Epoxy





PZN-AA LAYOUT



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts in one row	
Multiply the number of contact cavities minus 1 by .025"	
Add fixed end length constant	.050″
Total Length (Dimension A)	

Notes: Maximum length .325" [8.26]. Maximum number of contact cavities is 24

DIMENSIONS FOR "B"

To determine pad pattern layout length "B": Multiply the number of contacts in one row minus 1 by .025" Total Length (Dimension B)

Notes: Maximum length .275" [6.99].

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

OMNETICS CONNECTOR CORPORATION

CONNECTOR CORPORATION

HORIZONTAL SMT (TYPE AA) ORDERING GUIDE



www.omnetics.com

STRAIGHT THRU-HOLE (TYPE DD)

The Polarized Nano (PZN) connectors are designed to hold one row of pins and one row of sockets; this configuration polarizes the connector without the extra space needed for guide pins. The Straight Thru-Hole (type DD) Polarized Nano (PZN) connectors are configured with simple straight tails (Integral and Crimped). Suitable for vertical thru-hole mounting to fine pitched flex circuits. These ruggedized PZN Nano connectors are designed on .025" (.64 mm) centerlines. These PZN connectors feature Omnetics' gold plated Flex Pin contact system that conforms to the requirements of MIL-DTL-32139.

The connectors are available in standard sizes ranging from 4 through 24 positions. Flex design and installation service is also available from Omnetics, please contact us for more information.



ELECTRO-MECHANICAL SPECS

Durability:	200 Cycles
Temperature:	-55°C to +125 °C (200 °C w/HTE)
Current rating:	_1 AMP per contact
Voltage Rating (DWV):	250 VAC RMS Sea Level
Insulation Resistance:	5,000 Megohms min @ 100 VDC
Shock:	_100 G's discontinuity < 10 nanoseconds
Vibration:	_20 G's discontinuity < 10 nanoseconds
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	_71 Milliohms max (71 mV max @ 1 AMP)
Mating/Unmating Force:	_2.5 oz (71 g) typical per contact

MATERIAL SPECIFICATIONS

nsulator:	Polyphenylene Sulfide per MIL-M-24519
Pin:	Gold Plated BeCu
Socket:	Gold Plated Copper Alloy
Encapsulant:	Ероху



PZN-DD LAYOUT



.050″

DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts in one row	
Multiply the number of contact cavities minus 1 by .025"	
Add fixed end length constant	
Total Length (Dimension A)	

Notes: Maximum length .325" [8.26]. Maximum number of contact cavities is 24

DIMENSIONS FOR "B"

To determine pad pattern layout length "B": Multiply the number of contacts in one row minus 1 by .025" Total Length (Dimension B)

Notes: Maximum length .275" [6.99].

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



STRAIGHT THRU-HOLE (TYPE DD) ORDERING GUIDE





SHORT/LONG ALT. THRU-HOLE (TYPE H2)

The Polarized Nano (PZN) connectors are designed to hold one row of pins and one row of sockets; this configuration polarizes the connector without the extra space needed for guide pins. The Horizontal Thru-Hole (type H2) PZN connectors have contacts arranged on .025 (.64 mm) centerlines. The PZN H2 thru-hole tails are arranged in a .025 x .50" grid, allowing space for traces and annular rings. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system, conforming to requirements of MIL-DTL-32139. These durable lightweight connectors are perfect for the most demanding applications.

PZN connectors are available in standard sizes ranging from 4 to 24 positions.



ELECTRO-MECHANICAL SPECS

Durability:	200 Cycles
Temperature:	55°C to +125 °C (200 °C w/HTE)
Current rating:	1 AMP per contact
Voltage Rating (DWV):	250 VAC RMS Sea Level
Insulation Resistance:	_5,000 Megohms min @ 100 VDC
Shock:	_100 G's discontinuity < 10 nanoseconds
Vibration:	20 G's discontinuity < 10 nanoseconds
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	_71 Milliohms max (71 mV max @ 1 AMP)
Mating/Unmating Force:	2.5 oz (71 g) typical per contact

MATERIAL SPECIFICATIONS

Insulator:	Polyphenylene Sulfide per MIL-M-24519
Pin:	_Gold Plated BeCu
Socket:	Gold Plated Copper Alloy
Encapsulant:	Ероху



PZN-H2 LAYOUT



.050″

DIMENSIONS FOR "A"

To determine connector length "A":Add the total number of contacts in one rowMultiply the number of contact cavities minus 1 by .025"Add fixed end length constantTotal Length (Dimension A)

DIMENSIONS FOR "B"

To determine pad pattern layout length "B": Multiply the number of contacts in one row minus 1 by .025" Total Length (Dimension B)

Notes: Maximum length .275" [6.99].

Notes: Maximum length .325" [8.26]. Maximum number of contact cavities is 24

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

OMNETICS CONNECTOR CORPORATION

SHORT/LONG ALT. THRU-HOLE (TYPE H2) ORDERING GUIDE



Email: sales@omnetics.com www.omnetics.com



VERTICAL SMT (TYPE VV)

The Polarized Nano (PZN) connectors are designed to hold one row of pins and one row of sockets; this configuration polarizes the connector without the extra space needed for guide pins. The Vertical SMT PZN connectors require a minimal amount of board space on flex circuits and rigid circuit boards. These connectors feature Omnetics' highly reliable gold plated Flex Pin contact system conforming to the requirements of MIL-DTL 32139. These rugged lightweight connectors are suitable for the most demanding applications.

The PZN connectors are available in standard sizes ranging from 4 to 24 positions.



ELECTRO-MECHANICAL SPECS

Durability:	200 Cycles
Temperature:	55°C to +125 °C (200 °C w/HTE)
Current rating:	1 AMP per contact
Voltage Rating (DWV):	250 VAC RMS Sea Level
Insulation Resistance:	5,000 Megohms min @ 100 VDC
Shock:	100 G's discontinuity < 10 nanoseconds
Vibration:	20 G's discontinuity < 10 nanoseconds
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	_71 Milliohms max (71 mV max @ 1 AMP)
Mating/Unmating Force:	2.5 oz (71 g) typical per contact

MATERIAL SPECIFICATIONS

nsulator:	Polyphenylene Sulfide per MIL-M-24519
Pin:	Gold Plated BeCu
Socket:	Gold Plated Copper Alloy
Encapsulant:	Ероху


PZN-VV LAYOUT



.050″

DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts in one row	
Multiply the number of contact cavities minus 1 by .025"	
Add fixed end length constant	
Total Length (Dimension A)	

Notes: Maximum length .325" [8.26]. Maximum number of contact cavities is 24

DIMENSIONS FOR "B"

To determine pad pattern layout length "B": Multiply the number of contacts in one row minus 1 by .025" Total Length (Dimension B)

Notes: Maximum length .275" [6.99].

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.



VERTICAL SMT (TYPE VV) ORDERING GUIDE



OMNETICS

PRE-WIRED/CABLE (TYPE WD/WC)

The Polarized Nano (PZN) connectors are designed to hold one row of pins and one row of sockets; this configuration polarizes the connector without the extra space needed for guide pins. The pre-wired PZN connector assemblies are crimped using proprietary semi-automated crimping systems. Due to their small size and precision required to make these quality crimps, hand crimping is not an option. Pre-crimped wires and contacts are potted in place further protecting the integrity of the crimp joint. Commercial Off The Shelf (COTS) versions are also available with 18" of color coded 30 AWG Teflon wire for quick turnaround.

The PZN connectors are available in standard sizes ranging from 4 through 24 positions and accept wires 30 AWG or smaller stranded wire.

ELECTRO-MECHANICAL SPECS



Durability:	200 Cycles
Temperature:	55°C to +125 °C (200 °C w/HTE)
Current rating:	1 AMP per contact
Voltage Rating (DWV):	250 VAC RMS Sea Level
Insulation Resistance:	_5,000 Megohms min @ 100 VDC
Shock:	100 G's discontinuity < 10 nanoseconds
Vibration:	_20 G's discontinuity < 10 nanoseconds
Thermal Vacuum Outgassing:	NASA SP-R-0022
Contact Resistance:	_71 Milliohms max (71 mV max @ 1 AMP)
Mating/Unmating Force:	2.5 oz (71 g) typical per contact

MATERIAL SPECIFICATIONS

Insulator	Polyphenylene Sulfide per MII -M-24519
Pin:	Gold Plated BeCu
Socket:	Gold Plated Copper Alloy
Encapsulant:	_Ероху



PZN-WD/WC LAYOUT



.050″

DIMENSIONS FOR "A"

To determine connector length "A": Add the total number of contacts in one row Multiply the number of contact cavities minus 1 by .025" Add fixed end length constant Total Length (Dimension A)

DIMENSIONS FOR "B"

To determine pad pattern layout length "B": Multiply the number of contacts in one row minus 1 by .025" Total Length (Dimension B)

Notes: Maximum length .275" [6.99].

Notes: Maximum length .325" [8.26]. Maximum number of contact cavities is 24

Dimensions in [] are in Millimeters unless otherwise noted and are for reference only.

OMNETICS CONNECTOR CORPORATION

PRE-WIRED/CABLE (TYPE WD/WC) ORDERING GUIDE







PZN-08-WD-18.00-C



Micro Strip - Headers

AA TAILS





.195 [4.95] -

DD TAILS







DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts in one row	
Multiply the number of contact cavities minus 1 by .025"	
Add fixed end length constant	.050″
Total Length (Dimension A)	

Notes: Maximum length .325" [8.26]. Maximum number of contact cavities is 24

OMNETICS

Micro Strip - Headers

H2 TAILS



VV TAILS



WWYY

OMMETICS

.050″

DATE CODE: YY: YEAR WW: WEEK

245 6.22



151



DIMENSIONS FOR "A"

To determine connector length "A": Add the total number of contacts in one row Multiply the number of contact cavities minus 1 by .025" Add fixed end length constant Total Length (Dimension A)

Notes: Maximum length .325" [8.26]. Maximum number of contact cavities is 24



Nano Strip - Headers

AH TAILS

1

.100 [2.54]

7

MMA

.050″





DH TAILS



DATE CODE: YY: YEAR WW: WEEK



DIMENSIONS FOR "A"

To determine connector length "A":	
Add the total number of contacts in one row	
Multiply the number of contact cavities minus 1 by .025"	
Add fixed end length constant	
Total Length (Dimension A)	

Notes: Maximum length .325" [8.26]. Maximum number of contact cavities is 24

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Nano Strip - Headers

AT PLANE A and А .075 (TYP) [1.91] ▲ .050
[1.27]
▲ .100
[2.54] 1 Ø.010 (TYP) 0.25 .070 [1.78] .016 [0.41] DATE CODE: YY: YEAR WW: WEEK .100 [2.54] .030 [0.76] ΤĹ ł 9 SPACES @ .025 = .225 .64] [5.72] [.64]

HH TAILS

VH TAILS





.050″





DIMENSIONS FOR "A"

To determine connector length "A": Add the total number of contacts in one row Multiply the number of contact cavities minus 1 by .025" Add fixed end length constant Total Length (Dimension A)

Notes: Maximum length .325" [8.26]. Maximum number of contact cavities is 24



Notes



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S5104 – Micro and Nano Strip

Specifications subject to change without notice



Omnetics Connector Corporation

Minneapolis, M, USA Phone: +1 763-572-0656 Fax: 763-572-3925

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