ARMSTO

MIL-DTL-83513 MICRO-D CONNECTORS

www.**armsto**.com.tr

ARMSTO. Military-grade quality. Globally trusted performance.

At ARMSTO, we design and manufacture high-reliability connector systems built to perform under the most demanding conditions. Combining advanced engineering with national production capability, we deliver solutions that meet and exceed **MIL-DTL-83513** and other **military-grade standards**.

Our fully automated manufacturing lines, in-house testing facilities, and continuous R&D enable us to produce connectors that ensure **exceptional mechanical durability, electrical integrity, and environmental resilience.** Every detail — from material selection to final inspection — reflects our commitment to precision, reliability, and trust.

Proudly developed and produced in Türkiye, ARMSTO stands as a dependable partner for defense, aerospace, and high-performance industrial systems worldwide. Because in every mission, every connection matters.

In-House Design and Manufacturing

All ARMSTO connectors are fully designed and made in-house, ensuring top quality, reliability, and full traceability from start to finish.

Commitment to Trust

We build trust through transparency, reliability, and consistent performance, delivering connectors that work under extreme conditions.

Innovative Solutions

We focus on R&D and modern technologies to create compact, high-performance connectors for defense, aerospace, and industrial applications.

Our Mission

To enhance the technological independence and global competitiveness of the defense and aerospace sectors through innovative, high-reliability connector solutions.

At ARMSTO, we:

- Design and manufacture connectors fully compliant with military and industrial standards, including MIL-DTL-83513.
- Deliver reliable, application-specific solutions tailored to system requirements.
- Invest continuously in R&D, automation, and quality assurance to ensure excellence at every stage.
- Support strategic goals through domestic, in-house manufacturing.

Precision, reliability, and innovation are not just our values — they form the foundation of every ARMSTO product.

Why Armsto Connector ?

- Favorable Price
- Fast Lead Time
- Modern Production Techniques
- Fast Service Network
- Ability to Custom Design
- Full Automation Coating Facility
- State of the Art Mechanical Production Facility
- High Stock Raw Material
- High Inventory Level

The biggest feature that distinguishes Armsto Connector from other manufacturers is the production of customized connectors for the customers systems. Our products demonstrate high performance, as validated by in-house testing conducted in accordance with military and industrial standards. As a matter of fact, the most distinctive feature that sets Armsto Connector apart from other manufacturers is the use of twist-pin type connectors. This state-of-the-art pin structure ensures uninterrupted transmission under 50G shock and 20G vibration.

As a result of R&D on the standard Micro-D product family, Armsto Connectors offers an optional grounding spring across the Micro-D range. A mated pair of nickel-plated Micro-D connectors, fitted with the optional grounding spring on the plug shell mating face, exhibits a maximum voltage drop of 10 mV and minimal signal attenuation when tested according to EIA-364-83 and EIA-364-66.

Armsto Twist Pin Contact Technology

MIL-DTL-83513 Twist Pin

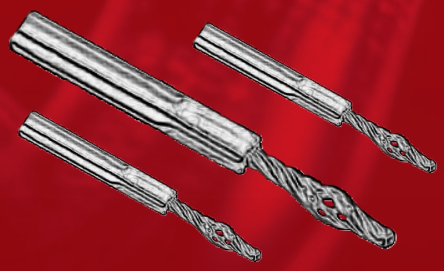
Contact Resistance: ≤10 mΩ

Vibration: 10-2000 Hz, 196 m/s²

Shock: 735 m/s²

Rated Current: 3A

Durability: 500 Times (Minimum)



Armsto Connector combines advanced twist-pin technology with precision-engineered insulators to deliver exceptional reliability in the most demanding environments. Trusted in defense, avionics, medical, and commercial applications, our connectors are engineered to maintain superior performance under extreme conditions.

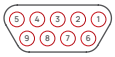
The twist-pin contact structure features multiple fine beryllium copper strands helically wound around a soft copper core, creating a highly flexible pin. Upon insertion, the pin compresses and establishes multiple spiral contact points within the socket, ensuring continuous electrical transmission. This innovative design provides outstanding resistance to mechanical shock, vibration, and environmental stress, guaranteeing stable and uninterrupted connectivity.

At Armsto Connector, precision engineering meets proven materials to create products that combine durability, high performance, and reliability. Whether for mission-critical defense systems, advanced avionics, medical devices, or commercial applications, our connectors are designed to perform when it matters most.

Contact Arrangements
Pin (Male)
Socket (Female)

Pin

Socket



9 Contacts | 15 Contacts | 21 Contacts

Pin

Socket

25 Contacts | 31 Contacts

Pin

Socket

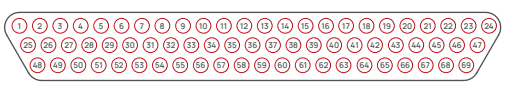
37 Contacts | 51 Contacts

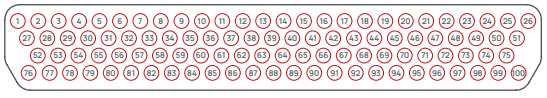
Pin

Socket

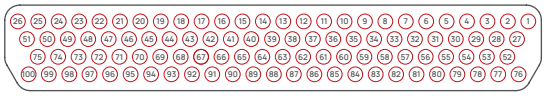
51-2 Contacts

Pin





Socket



69 Contacts | 100 Contacts

Armsto Micro-D Connector Specifications

Armsto Connector family is MIL-DTL-83513 qualified and 100% compatible with MIL-DTL-83513 series connectors.

Property	Requirement	Test Method
Magnetic Permeability	2.0μ Maximum	EIA-364-54
Dielectric Withstanding Voltage At Sea Level At Altitude	600 VAC 150 VAC	EIA-364-20 Procedure 20
Insulation Resistance	5,000 Megohms	EIA-364-31 Procedure 21
Contact Resistance M22759/11-26 M22759/33-26	65 Maximum 75 Maximum	MIL-DTL-83513H Amendment 2
Contact Engagement and Separation Forces	Maximum 6.0 ounces Engaging Minimum 0.5 ounces Separation	EIA-364-37
Mating and Unmating Force	10 Ounces of One Contact	EIA-364-13
Temperature Cycling	-55 °C to +125 °C	EIA-364-32
Humidity	DWV 360 V rms 60 Hertz AC	EIA-364-31 Test IV 7a
Vibration	20 G's	EIA-364-28 Test IV
Shock	50 G's	EIA-364-27 Test E
Durability	500 Mating Cycles Minimum	MIL-DTL-83513H Amendment 2
Salt Spray Electroless Nickel Plating Cadmium Plating Chem Film Plating Black Anodize Plating Gold Plating Passivated (Only SS)	48 Hours	EIA-364-26 B EIA-364-26 A EIA-364-26 B EIA-364-26 B EIA-364-26 B EIA-364-26 D
Low Signal Level Contact Resistance M22759/11-26 M22759/33-26	Maximum 28 Milliohms Maximum 32 Milliohms	EIA-364-23
Fluid Immersion	20 Hours (Synthetic Lubricating Oil) 1 Hour (Coolant 25)	MIL-DTL-83513H Amendment 2
Insert Retention	50 Pounds per Square Inch	EIA-364-35
Solderability		MIL-STD-202 Method 208
Resistance to Soldering Heat	360°C	EIA-364-56 Procedure 1
Contact Retention	5 Pound	EIA-364-29

SOLDER CUP

ARMMDSC

Solder Cup
Micro-D Connector Series

Enables straightforward manual soldering for flexible assembly and maintenance.

Designed with gold-plated contacts for superior reliability, these connectors work with #26 AWG or smaller wires. For the best performance use Electroless Nickel or Cadmium plating.

Engineered to meet the stringent requirements of defense, aerospace, and industrial applications.

ARMMDSC

Solder Cup
Micro-D Connector Series

	1.	2.	3.	4.	5.	6.
Series	**Shell Material**	**Insulator Material**	**Contact Layout**	**Contact Type**	**Shell Finish Type**	**Hardware Type**
ARMMDSC	- A	P	9	S	1	- B

1 | Shell Material

A: Aluminum
SS: Stainless Steel

2 | Insulator Material

P: PPS or LCP
LCP-30% Glass-Filled Liquid Crystal Polymer
PPS-40% Glass-Filled Polyphenylene Sulfide

3 | Contact Layout

9, 15, 21, 25, 31, 37, 51-2, 51, 69, 100

4 | Contact Type

S: Socket (Female)
P: Pin (Male)

5 | Shell Finish Type

1: Electroless Nickel
2: Cadmium
3: Chem Film
4: Gold
5: Black Anodize
6: Silver
7: Passivated (Only Stainless Steel)

6 | Hardware Type

B: Thru-Hole • **P:** Jackpost • **HJ:** Hex Head Jackscrew
HJ1: Hex Head Jackscrew Extended
SJ: Slot Head Jackscrew
SJ1: Slot Head Jackscrew Extended
T: Threaded Insert

B

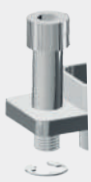
Thru-Hole, No Mounting Hardware

P

Jackpost

HJ

Hex Head Jackscrew

HJ1

Hex Head Jackscrew Extended

SJ

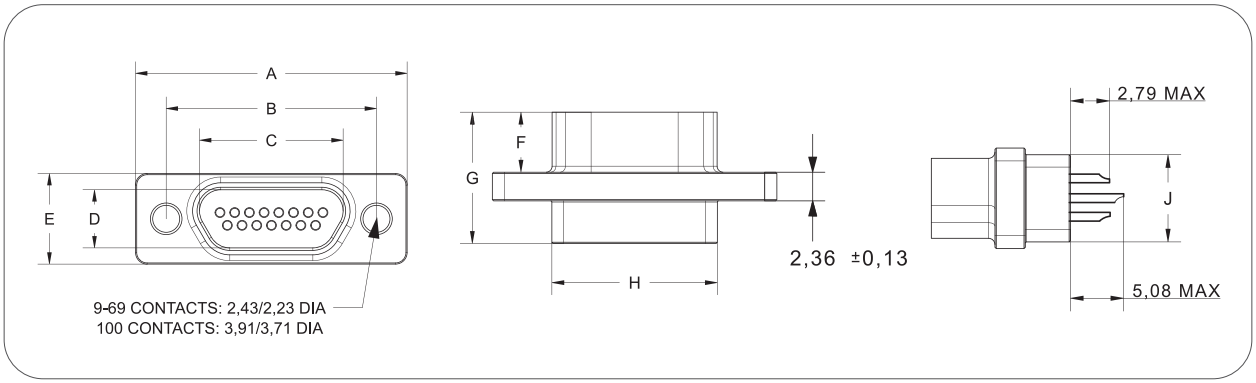
Slot Head Jackscrew

SJ1

Slot Head Jackscrew Extended

T

Threaded Insert



Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.	H Max.	J Max.
9P	19,94	14,35	8,46	4,67	7,87	4,65	10,57	10,16	6,86
9S	19,94	14,35	10,16	6,35	7,87	4,95	10,90	10,16	6,86
15P	23,75	18,16	12,27	4,67	7,87	4,65	10,57	13,97	6,86
15S	23,75	18,16	14,00	6,35	7,87	4,95	10,90	13,97	6,86
21P	27,56	21,97	16,08	4,67	7,87	4,65	10,57	17,78	6,86
21S	27,56	21,97	17,81	6,35	7,87	4,95	10,90	17,78	6,86
25P	30,01	24,51	18,62	4,67	7,87	4,65	10,57	20,32	6,86
25S	30,01	24,51	20,35	6,35	7,87	4,95	10,90	20,32	6,86
31P	33,91	28,32	22,43	4,67	7,87	4,65	10,57	24,13	6,86
31S	33,91	28,32	24,16	6,35	7,87	4,95	10,90	24,13	6,86
37P	37,72	32,13	26,24	4,67	7,87	4,65	10,57	27,94	6,86
37S	37,72	32,13	27,96	6,35	7,87	4,95	10,90	27,94	6,86
51-2P	46,61	41,02	35,15	4,67	7,87	4,65	10,57	36,83	6,86
51-2S	46,61	41,02	36,83	6,35	7,87	4,95	10,90	36,83	6,86
51P	36,45	30,86	24,97	5,79	8,92	4,65	10,57	26,67	7,87
51S	36,45	30,86	26,7	7,52	8,92	4,95	10,90	26,67	7,87
69P	44,07	38,48	32,61	5,79	8,92	4,65	10,57	34,29	7,87
69S	44,07	38,48	34,29	7,52	8,92	4,95	10,90	34,29	7,87
100P	55,12	45,72	35,13	6,86	10,01	4,65	10,57	36,63	9,14
100S	55,12	45,72	36,86	8,46	10,01	4,95	10,90	36,63	9,14

Dimensions given are in mm

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

MS83513/01 & /02 Micro-D

Solder Cup Terminated, Metal Shell Connectors

Solder Cups

Fixed TwistPin Contacts, Gold-Plated. Aluminum Shells. Fully Potted and Tested 100%.

Termination

Solder cup termination for AWG #26 or smaller size hookup wires.

Intermateability

These connectors are intermateable with all of the metal shell M83513/01 & /02 connectors.

	1.	2.	3.
Base Part Number	**Slash Number**	**Shell Size**	**Shell Finish**
MS83513/	/02	-A	N

1 | Slash Number

01: Pin Connector (Plug)

02: Socket Connector (Receptacle)

2 | Shell Size

A, B, C, D, E, F, G, H

Codes A–H specify the shell size.
The number of contacts is shown below for reference:

A: 9 • **B:** 15 • **C:** 21 • **D:** 25 • **E:** 31 • **F:** 37 • **G:** 51 • **H:** 100

3 | Shell Finish

C: Cadmium

N: Electroless Nickel

P: Passivated (Only Stainless Steel)

PRE-WIRED

ARMMDPW

Pre-Wired
Micro-D Connector Series

Eliminates the need for manual termination, enabling faster integration into systems.

Available with a variety of wire types, lengths, and gauges to meet specific design requirements.

Designed for demanding defense, aerospace, and industrial environments where precision and reliability are critical.

ARMMDPW-

Pre-Wired
Micro-D Connector Series

	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
Series	Shell Material	Insulator Material	Contact Layout	Contact Type	Shell Finish Type	Wire Gage	Wire Standard	Colour Code	Wire Length	Hardware Type
ARMMDPW	- A	P	9	S	1	4	K	1	18	- B

1 | Shell Material

A: Aluminum
SS: Stainless Steel

2 | Insulator Material

P: PPS or LCP

LCP-30% Glass-Filled Liquid Crystal Polymer

PPS-40% Glass-Filled Polyphenylene Sulfide

3 | Contact Layout

9, 15, 21, 25, 31, 37, 51-2, 51, 69, 100

4 | Contact Type

S: Socket (Female)
P: Pin (Male)

5 | Shell Finish Type

1: Electroless Nickel
2: Cadmium
3: Chem Film
4: Gold
5: Black Anodize
6: Silver
7: Passivated (Only Stainless Steel)

6 | Wire Gage

4: 24 • **6:** 26 • **8:** 28 • **0:** 30

7 | Wire Standard

K: M22759/11
E: NEMA HP3 (M16878/4)
L: M22759/33

8 | Colour Code

1: 10 Colour Repeat
2: Color coded per MIL-STD-681, system
3: All White
4: All Yellow

9 | Wire Length

18: 18 inches
36: 36 inches
24: 24 inches
X: Non Standard Length

10 | Hardware Type

B: Thru-Hole • **P:** Jackpost • **HJ:** Hex Head Jackscrew
HJ1: Hex Head Jackscrew Extended
SJ: Slot Head Jackscrew
SJ1: Slot Head Jackscrew Extended
T: Threaded Insert

"Reference part number for **72"** non-standard wire length configuration." • **ARMMDPW-AP9S14K1X-B-72**

B

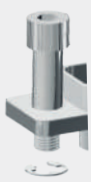
Thru-Hole, No Mounting Hardware

P

Jackpost

HJ

Hex Head Jackscrew

HJ1

Hex Head Jackscrew Extended

SJ

Slot Head Jackscrew

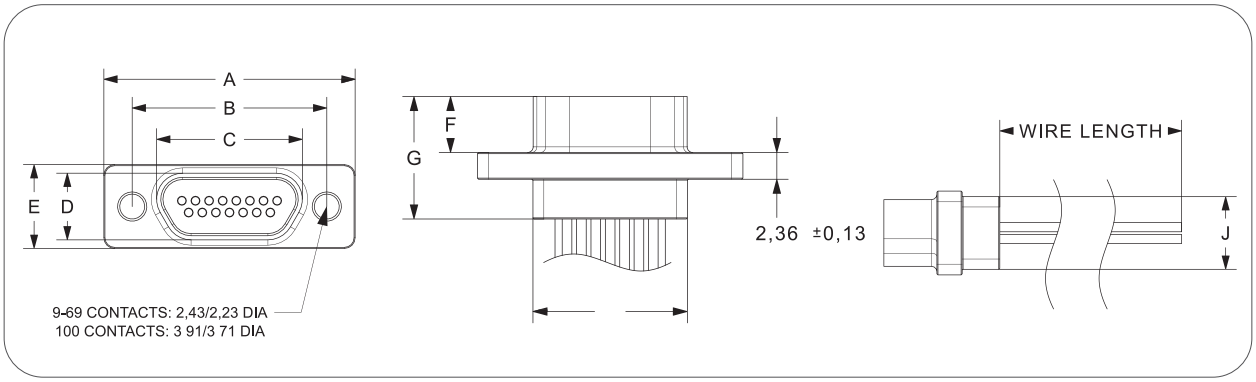
SJ1

Slot Head Jackscrew Extended

T

Threaded Insert

ARMMDPW



Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.	H Max.	J Max.
9P	19,94	14,35	8,46	4,67	7,87	4,65	10,57	10,16	6,86
9S	19,94	14,35	10,16	6,35	7,87	4,95	10,90	10,16	6,86
15P	23,75	18,16	12,27	4,67	7,87	4,65	10,57	13,97	6,86
15S	23,75	18,16	14,00	6,35	7,87	4,95	10,90	13,97	6,86
21P	27,56	21,97	16,08	4,67	7,87	4,65	10,57	17,78	6,86
21S	27,56	21,97	17,81	6,35	7,87	4,95	10,90	17,78	6,86
25P	30,01	24,51	18,62	4,67	7,87	4,65	10,57	20,32	6,86
25S	30,01	24,51	20,35	6,35	7,87	4,95	10,90	20,32	6,86
31P	33,91	28,32	22,43	4,67	7,87	4,65	10,57	24,13	6,86
31S	33,91	28,32	24,16	6,35	7,87	4,95	10,90	24,13	6,86
37P	37,72	32,13	26,24	4,67	7,87	4,65	10,57	27,94	6,86
37S	37,72	32,13	27,96	6,35	7,87	4,95	10,90	27,94	6,86
51-2P	46,61	41,02	35,15	4,67	7,87	4,65	10,57	36,83	6,86
51-2S	46,61	41,02	36,83	6,35	7,87	4,95	10,90	36,83	6,86
51P	36,45	30,86	24,97	5,79	8,92	4,65	10,57	26,67	7,87
51S	36,45	30,86	26,7	7,52	8,92	4,95	10,90	26,67	7,87
69P	44,07	38,48	32,61	5,79	8,92	4,65	10,57	34,29	7,87
69S	44,07	38,48	34,29	7,52	8,92	4,95	10,90	34,29	7,87
100P	55,12	45,72	35,13	6,86	10,01	4,65	10,57	36,63	9,14
100S	55,12	45,72	36,86	8,46	10,01	4,95	10,90	36,63	9,14

Dimensions given are in mm

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

MS83513/03 & /04 Micro-D

Pre-Wired Crimp Terminated, Metal Shell Connectors

Pre-Wired Pigtails

TwistPin contacts, gold-plated. Mil Spec crimp termination. Aluminum shells. Fully potted and tested 100%.

Wire Type

Lightweight, insulated, Mil Spec M22759 type hookup wires.

Intermateability

These connectors are intermateable with all of the metal shell M83513/03 & /04 connectors.

	1.	2.	3.	4.
Base Part Number	**Slash Number**	**Shell Size**	**Wire Type**	**Shell Finish**
MS83513/	/04	A	09	N

1 | Slash Number

01: Pin Connector (Plug)

02: Socket Connector (Receptacle)

2 | Shell Size

A, B, C, D, E, F, G, H

Codes A–H specify the shell size.
The number of contacts is shown below for reference:

A: 9 • **B:** 15 • **C:** 21 • **D:** 25 • **E:** 31 • **F:** 37 • **G:** 51 • **H:** 100

3 | Wire Type

M22759/11-26 Stranded Hookup Wire

01: 457 mm (18.00"), White
02: 914 mm (36.00"), White
03: 457 mm (18.00"), 10 Color Repeating
04: 914 mm (36.00"), 10 Color Repeating
13: 1829 mm (72.00"), White
14: 1829 mm (72.00"), 10 Color Repeating

25 AWG Solid Uninsulated Wire

05: 12.7 mm (0.500"), Gold Plated
06: 25.4 mm (1.000"), Gold Plated
07: 12.7 mm (0.500"), Tin-Lead Plated
08: 25.4 mm (1.000"), Tin-Lead Plated

M22759/33-26 Stranded Hookup Wire

09: 457 mm (18.00"), White
10: 914 mm (36.00"), White
11: 457 mm (18.00"), 10 Color Repeating
12: 914 mm (36.00"), 10 Color Repeating
15: 1829 mm (72.00"), White
16: 1829 mm (72.00"), 10 Color Repeating

4 | Shell Finish

C: Cadmium
A: Electrodeposited Aluminum
N: Electroless Nickel
K: Zinc Nickel
P: Passivated (Only Stainless Steel)

PRE-WIRED WITH RIGHT ANGLE EXIT

ARMMDRPW

Pre-Wired With Right Angle Exit
Micro-D Connector Series

Optimized cable routing for space-constrained applications, reducing strain and improving system layout.

Pre-terminated leads save time and ensure consistent quality.

Designed for harsh environments, including aerospace, defense, and industrial applications.

ARMMDRPW-

Pre-Wired With Right Angle Exit Micro-D Connector Series

	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
Series	Shell Material	Insulator Material	Contact Layout	Contact Type	Shell Finish Type	Cable Output Direction	Wire Gage	Wire Standard	Colour Code	Wire Length	Hardware Type
ARMMDRPW	- A	P	9	S	1	U	4	K	1	18	- B

1 | Shell Material

A: Aluminum
SS: Stainless Steel

2 | Insulator Material

P: PPS or LCP

LCP-30% Glass-Filled Liquid Crystal Polymer

PPS-40% Glass-Filled Polyphenylene Sulfide

3 | Contact Layout

9, 15, 21, 25, 31, 37, 51-2, 51, 69, 100

4 | Contact Type

S: Socket (Female)
P: Pin (Male)

5 | Shell Finish Type

1: Electroless Nickel
2: Cadmium
3: Chem Film
4: Gold
5: Black Anodize
6: Silver
7: Passivated (Only Stainless Steel)
8: Zinc Nickel

6 | Cable Output Direction

U: Exit to Long Row
W: Exit to Short Row

7 | Wire Gage

4: 24 • **6:** 26 • **8:** 28 • **0:** 30

8 | Wire Standard

K: M22759/11
E: NEMA HP3 (M16878/4)
L: M22759/33

9 | Colour Code

1: 10 Colour Repeat
2: Color coded per MIL-STD-681, system
3: All White
4: All Yellow

10 | Wire Length

18: 18 inches
36: 36 inches
24: 24 inches
X: Non Standard Length

11 | Hardware Type

B: Thru-Hole • **P:** Jackpost • **HJ:** Hex Head Jackscrew
HJ1: Hex Head Jackscrew Extended
SJ: Slot Head Jackscrew
SJ1: Slot Head Jackscrew Extended
T: Threaded Insert

"Reference part number for **72"** non-standard wire length configuration." • **ARMMDRPW-AP9S1U4K1X-B-72**

B

Thru-Hole, No Mounting Hardware

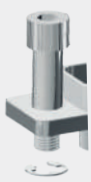
P

Jackpost

HJ

Hex Head Jackscrew

HJ1



Hex Head Jackscrew Extended

SJ

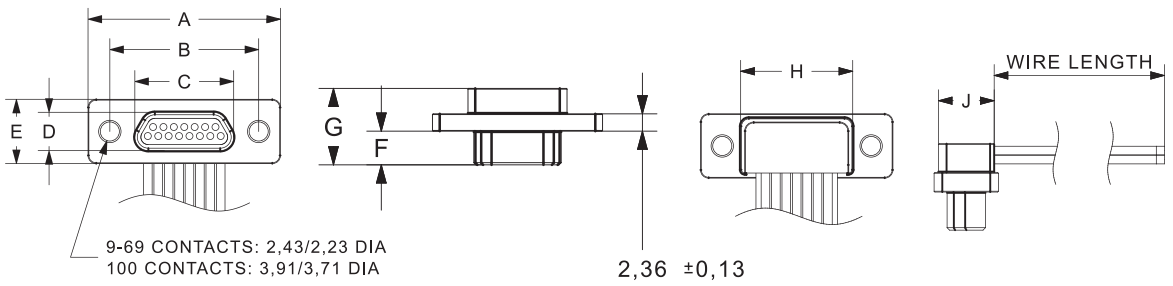
Slot Head Jackscrew

SJ1

Slot Head Jackscrew Extended

T

Threaded Insert



Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.	H Max.	J Max.
9P	19,94	14,35	8,46	4,67	7,87	4,65	10,57	10,16	6,86
9S	19,94	14,35	10,16	6,35	7,87	4,95	10,90	10,16	6,86
15P	23,75	18,16	12,27	4,67	7,87	4,65	10,57	13,97	6,86
15S	23,75	18,16	14,00	6,35	7,87	4,95	10,90	13,97	6,86
21P	27,56	21,97	16,08	4,67	7,87	4,65	10,57	17,78	6,86
21S	27,56	21,97	17,81	6,35	7,87	4,95	10,90	17,78	6,86
25P	30,01	24,51	18,62	4,67	7,87	4,65	10,57	20,32	6,86
25S	30,01	24,51	20,35	6,35	7,87	4,95	10,90	20,32	6,86
31P	33,91	28,32	22,43	4,67	7,87	4,65	10,57	24,13	6,86
31S	33,91	28,32	24,16	6,35	7,87	4,95	10,90	24,13	6,86
37P	37,72	32,13	26,24	4,67	7,87	4,65	10,57	27,94	6,86
37S	37,72	32,13	27,96	6,35	7,87	4,95	10,90	27,94	6,86
51P	36,45	30,86	24,97	5,79	8,92	4,65	10,57	26,67	7,87
51S	36,45	30,86	26,7	7,52	8,92	4,95	10,90	26,67	7,87
69P	44,07	38,48	32,61	5,79	8,92	4,65	10,57	34,29	7,87
69S	44,07	38,48	34,29	7,52	8,92	4,95	10,90	34,29	7,87
100P	55,12	45,72	35,13	6,86	10,01	4,65	11,84	36,63	9,14
100S	55,12	45,72	36,86	8,46	10,01	4,95	10,90	36,63	9,14

Dimensions given are in mm

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

INTEGRAL BACKSHELL

ARMMDIB

Integral Backshell
Micro-D Connector Series

Built-in backshell eliminates the need for separate accessories, providing secure cable support and strain relief.

Improved EMI/RFI Protection; Integral design ensures better shielding performance for sensitive systems.

Well-suited for defense, aerospace, avionics, and other environments requiring high-reliability interconnects.

ARMMDIB-

Integral Backshell
Micro-D Connector Series

	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
Series	Shell Material	Insulator Material	Contact Layout	Contact Type	Shell Finish Type	Wire Gage	Wire Standard	Colour Code	Wire Length	Hardware Type
ARMMDIB	- A	P	9	S	1	4	K	1	18	- B

1 | Shell Material

A: Aluminum
SS: Stainless Steel

2 | Insulator Material

P: PPS or LCP

LCP-30% Glass-Filled Liquid Crystal Polymer

PPS-40% Glass-Filled Polyphenylene Sulfide

3 | Contact Layout

9, 15, 21, 25, 31, 37, 51-2, 51, 69, 100

4 | Contact Type

S: Socket (Female)
P: Pin (Male)

5 | Shell Finish Type

1: Electroless Nickel
2: Cadmium
3: Chem Film
4: Gold
5: Black Anodize
6: Silver
7: Passivated (Only Stainless Steel)

6 | Wire Gage

4: 24 • **6:** 26 • **8:** 28 • **0:** 30

7 | Wire Standard

K: M22759/11
E: NEMA HP3 (M16878/4)
L: M22759/33

8 | Colour Code

1: 10 Colour Repeat
2: Color coded per MIL-STD-681, system
3: All White
4: All Yellow

9 | Wire Length

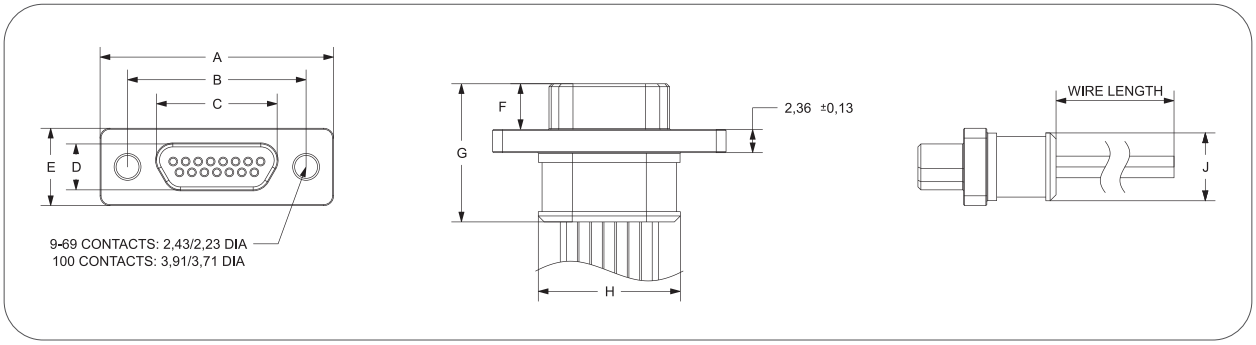
18: 18 inches
36: 36 inches
24: 24 inches
X: Non Standard Length

10 | Hardware Type

B: Thru-Hole • **P:** Jackpost • **HJ:** Hex Head Jackscrew
HJ1: Hex Head Jackscrew Extended
SJ: Slot Head Jackscrew
SJ1: Slot Head Jackscrew Extended
T: Threaded Insert

"Reference part number for **72"** non-standard wire length configuration." • **ARMMDIB-AP9S14K1X-B-72**

B	P	HJ	HJ1	SJ	SJ1	T
Thru-Hole, No Mounting Hardware	Jackpost	Hex Head Jackscrew	Hex Head Jackscrew Extended	Slot Head Jackscrew	Slot Head Jackscrew Extended	Threaded Insert



Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.	H Max.	J Max.
9P	19,94	14,35	8,46	4,67	7,87	4,65	14,05	10,90	6,90
9S	19,94	14,35	10,16	6,35	7,87	4,95	14,35	10,90	6,90
15P	23,75	18,16	12,27	4,67	7,87	4,65	14,05	14,45	6,90
15S	23,75	18,16	14,00	6,35	7,87	4,95	14,35	14,45	6,90
21P	27,56	21,97	16,08	4,67	7,87	4,65	14,05	17,80	6,90
21S	27,56	21,97	17,81	6,35	7,87	4,95	14,35	17,80	6,90
25P	30,01	24,51	18,62	4,67	7,87	4,65	14,05	20,80	6,90
25S	30,01	24,51	20,35	6,35	7,87	4,95	14,35	20,80	6,90
31P	33,91	28,32	22,43	4,67	7,87	4,65	14,05	23,90	6,90
31S	33,91	28,32	24,16	6,35	7,87	4,95	14,35	23,90	6,90
37P	37,72	32,13	26,24	4,67	7,87	4,65	14,05	28,40	6,90
37S	37,72	32,13	27,96	6,35	7,87	4,95	14,35	28,40	6,90
51-2P	46,61	41,02	35,15	4,67	7,87	4,65	14,05	37,30	6,90
51-2S	46,61	41,02	36,83	6,35	7,87	4,95	14,35	37,30	6,90
51P	36,45	30,86	24,97	5,79	8,92	4,65	14,05	27,20	7,90
51S	36,45	30,86	26,70	7,52	8,92	4,95	14,35	27,20	7,90
69P	44,07	38,48	32,61	5,79	8,92	4,65	14,05	34,80	7,90
69S	44,07	38,48	34,29	7,52	8,92	4,95	14,35	34,80	7,90
100P	55,12	45,72	35,13	6,86	10,01	4,65	14,05	37,25	9,95
100S	55,12	45,72	36,86	8,46	10,01	4,95	14,35	37,25	9,95

Dimensions given are in mm

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

EMI GOLD GROUND SPRING

ARMMDEMI

EMI Gold Ground Spring
Micro-D Connector Series

Superior EMI Shielding; Provides reliable electromagnetic interference suppression for high-performance electronic systems.

Fits into tight spaces while maintaining consistent contact force.

Designed to withstand repeated mating cycles without degradation of performance.

ARMMDEMI-

EMI Gold Ground Spring Micro-D Connector Series

	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
Series	Shell Material	Insulator Material	Contact Layout	Contact Type	Shell Finish Type	Wire Gage	Wire Standard	Colour Code	Wire Length	Hardware Type
ARMMDEMI	- A	P	9	S	1	4	K	1	18	- B

1 | Shell Material

A: Aluminum

SS: Stainless Steel

2 | Insulator Material

P: PPS or LCP

LCP-30% Glass-Filled Liquid Crystal Polymer

PPS-40% Glass-Filled Polyphenylene Sulfide

3 | Contact Layout

9, 15, 21, 25, 31, 37, 51-2, 51, 69, 100

4 | Contact Type

S: Socket (Female)

P: Pin (Male)

5 | Shell Finish Type

1: Electroless Nickel

2: Cadmium

3: Chem Film

4: Gold

5: Black Anodize

6: Silver

7: Passivated (Only Stainless Steel)

6 | Wire Gage

4: 24 • **6:** 26 • **8:** 28 • **0:** 30

7 | Wire Standard

K: M22759/11

E: NEMA HP3 (M16878/4)

L: M22759/33

8 | Colour Code

1: 10 Colour Repeat

2: Color coded per MIL-STD-681, system

3: All White

4: All Yellow

9 | Wire Length

18: 18 inches

36: 36 inches

24: 24 inches

X: Non Standard Length

10 | Hardware Type

B: Thru-Hole • **P:** Jackpost • **HJ:** Hex Head Jackscrew

HJ1: Hex Head Jackscrew Extended

SJ: Slot Head Jackscrew

SJ1: Slot Head Jackscrew Extended

T: Threaded Insert

EMI Gold Spring Only with Plug (Male)

"Reference part number for **72"** non-standard wire length configuration." • **ARMMDEMI-AP9S14K1X-B-72**

B

Thru-Hole, No Mounting Hardware

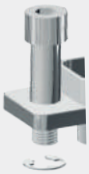
P

Jackpost

HJ

Hex Head Jackscrew

HJ1



Hex Head Jackscrew Extended

SJ

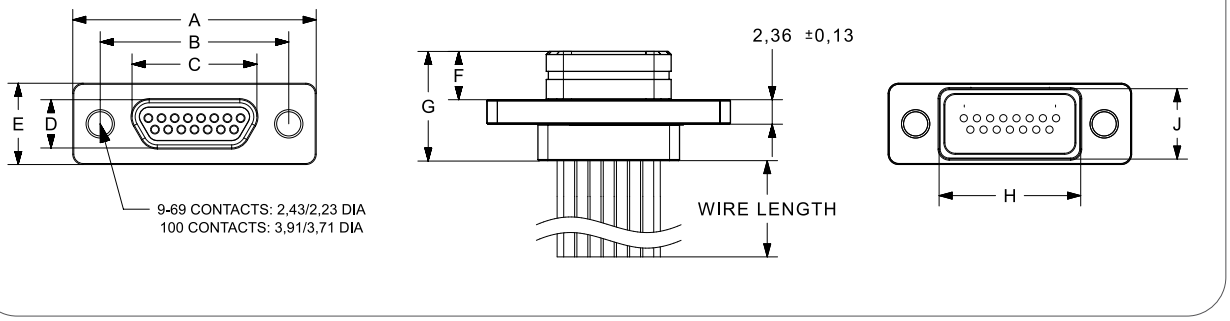
Slot Head Jackscrew

SJ1

Slot Head Jackscrew Extended

T

Threaded Insert



Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.	H Max.	J Max.
9P	19,94	14,35	8,46	4,67	7,87	4,65	14,05	10,90	6,90
9S	19,94	14,35	10,16	6,35	7,87	4,95	14,35	10,90	6,90
15P	23,75	18,16	12,27	4,67	7,87	4,65	14,05	14,45	6,90
15S	23,75	18,16	14,00	6,35	7,87	4,95	14,35	14,45	6,90
21P	27,56	21,97	16,08	4,67	7,87	4,65	14,05	17,80	6,90
21S	27,56	21,97	17,81	6,35	7,87	4,95	14,35	17,80	6,90
25P	30,01	24,51	18,62	4,67	7,87	4,65	14,05	20,80	6,90
25S	30,01	24,51	20,35	6,35	7,87	4,95	14,35	20,80	6,90
31P	33,91	28,32	22,43	4,67	7,87	4,65	14,05	23,90	6,90
31S	33,91	28,32	24,16	6,35	7,87	4,95	14,35	23,90	6,90
37P	37,72	32,13	26,24	4,67	7,87	4,65	14,05	28,40	6,90
37S	37,72	32,13	27,96	6,35	7,87	4,95	14,35	28,40	6,90
51-2P	46,61	41,02	35,15	4,67	7,87	4,65	14,05	37,30	6,90
51-2S	46,61	41,02	36,83	6,35	7,87	4,95	14,35	37,30	6,90
51P	36,45	30,86	24,97	5,79	8,92	4,65	14,05	27,20	7,90
51S	36,45	30,86	26,7	7,52	8,92	4,95	14,35	27,20	7,90
69P	44,07	38,48	32,61	5,79	8,92	4,65	14,05	34,80	7,90
69S	44,07	38,48	34,29	7,52	8,92	4,95	14,35	34,80	7,90
100P	55,12	45,72	35,13	6,86	10,01	4,65	14,05	37,25	9,95
100S	55,12	45,72	36,86	8,46	10,01	4,95	14,35	37,25	9,95

Dimensions given are in mm

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

EMI GOLD GROUND SPRING INTEGRAL BACKSHELL

ARMMDEMIIB

EMI Gold Ground Spring Integral Backshell
Micro-D Connector Series

Superior EMI Shielding; Provides reliable electromagnetic interference suppression for high-performance electronic systems.

Fits into tight spaces while maintaining consistent contact force.

Designed to withstand repeated mating cycles without degradation of performance.

ARMMDEMIIB-

EMI Gold Ground Spring Integral Backshell Micro-D Connector Series

	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
Series	**Shell Material**	**Insulator Material**	**Contact Layout**	**Contact Type**	**Shell Finish Type**	**Wire Gage**	**Wire Standard**	**Colour Code**	**Wire Length**	**Hardware Type**
ARMMDEMIIB	- A	P	9	S	1	4	K	1	18	- B

1 | Shell Material

A: Aluminum **SS:** Stainless Steel

2 | Insulator Material

P: PPS or LCP

LCP-30% Glass-Filled Liquid Crystal Polymer

PPS-40% Glass-Filled Polyphenylene Sulfide

3 | Contact Layout

9, 15, 21, 25, 31, 37, 51-2, 51, 69, 100

4 | Contact Type

S: Socket (Female) **P:** Pin (Male)

5 | Shell Finish Type

1: Electroless Nickel
2: Cadmium
3: Chem Film
4: Gold
5: Black Anodize
6: Silver
7: Passivated (Only Stainless Steel)

6 | Wire Gage

4: 24 • **6:** 26 • **8:** 28 • **0:** 30

7 | Wire Standard

K: M22759/11 **E:** NEMA HP3 (M16878/4)

L: M22759/33

8 | Colour Code

1: 10 Colour Repeat

2: Color coded per MIL-STD-681, system

3: All White **4:** All Yellow

9 | Wire Length

18: 18 inches **36:** 36 inches

24: 24 inches **X:** Non Standard Length

10 | Hardware Type

B: Thru-Hole • **P:** Jackpost • **HJ:** Hex Head Jackscrew

HJ1: Hex Head Jackscrew Extended

SJ: Slot Head Jackscrew

SJ1: Slot Head Jackscrew Extended

T: Threaded Insert

"Reference part number for **72"** non-standard wire length configuration." • **ARMMDEMIIB-AP9S14K1X-B-72**

B

Thru-Hole, No Mounting Hardware

P

Jackpost

HJ

Hex Head Jackscrew

HJ1

Hex Head Jackscrew Extended

SJ

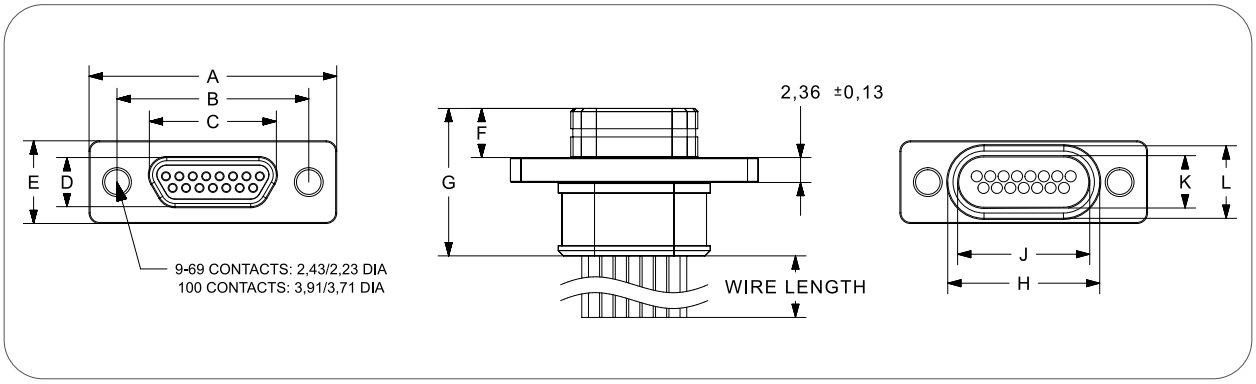
Slot Head Jackscrew

SJ1

Slot Head Jackscrew Extended

T

Threaded Insert



Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.	H Max.	J Max.	K Max.	L Max.
9P	19,94	14,35	8,46	4,67	7,87	4,65	14,05	10,90	6,90	4,95	6,90
9S	19,94	14,35	10,16	6,35	7,87	4,95	14,35	10,90	6,90	4,95	6,90
15P	23,75	18,16	12,27	4,67	7,87	4,65	14,05	14,45	12,50	4,95	6,90
15S	23,75	18,16	14,00	6,35	7,87	4,95	14,35	14,45	12,50	4,95	6,90
21P	27,56	21,97	16,08	4,67	7,87	4,65	14,05	17,80	15,90	4,95	6,90
21S	27,56	21,97	17,81	6,35	7,87	4,95	14,35	17,80	15,90	4,95	6,90
25P	30,01	24,51	18,62	4,67	7,87	4,65	14,05	20,80	18,90	4,95	6,90
25S	30,01	24,51	20,35	6,35	7,87	4,95	14,35	19,95	18,75	4,95	6,90
31P	33,91	28,32	22,43	4,67	7,87	4,65	14,05	23,90	22,00	4,95	6,90
31S	33,91	28,32	24,16	6,35	7,87	4,95	14,35	23,90	22,00	4,95	6,90
37P	37,72	32,13	26,24	4,67	7,87	4,65	14,05	29,00	26,50	4,95	6,90
37S	37,72	32,13	27,96	6,35	7,87	4,95	14,35	28,40	26,50	4,95	6,90
51-2P	46,61	41,02	35,15	4,67	7,87	4,65	14,05	38,40	35,40	4,95	6,90
51-2S	46,61	41,02	36,83	6,35	7,87	4,95	14,35	37,30	35,40	4,95	6,90
51P	36,45	30,86	24,97	5,79	8,92	4,65	14,05	27,20	25,20	5,95	7,90
51S	36,45	30,86	26,7	7,52	8,92	4,95	14,35	27,20	25,20	5,95	7,90
69P	44,07	38,48	32,61	5,79	8,92	4,65	14,05	34,80	32,85	5,95	7,90
69S	44,07	38,48	34,29	7,52	8,92	4,95	14,35	34,80	32,85	5,95	7,90
100P	55,12	45,72	35,13	6,86	10,01	4,65	14,05	37,25	35,30	8,00	9,95
100S	55,12	45,72	36,86	8,46	10,01	4,95	14,35	37,25	35,30	8,00	9,95

Dimensions given are in mm

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

BACK TO BACK SHELL

ARMMDBBS

Back to Back Shell
Micro-D Connector Series

Enables two connectors to be joined directly, saving space in dense assemblies.

Reduces the number of components and speeds up installation compared to separate connectors and backshells.

Designed to withstand harsh environmental conditions and repeated mating cycles.

ARMMDBBS-

Back to Back Shell
Micro-D Connector Series

	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
Series	Shell Material	Insulator Material	Contact Layout	Contact Type	Shell Finish Type	Wire Gage	Wire Standard	Colour Code	Wire Length	Hardware Type
ARMMDBBS	- A	P	9	S	1	4	K	1	18	- B

1 | Shell Material

A: Aluminum
SS: Stainless Steel

2 | Insulator Material

P: PPS or LCP

LCP-30% Glass-Filled Liquid Crystal Polymer

PPS-40% Glass-Filled Polyphenylene Sulfide

3 | Contact Layout

9, 15, 21, 25, 31, 37, 51-2, 51, 69, 100

4 | Contact Type

S: Socket to Socket (Female)
P: Pin to Pin (Male)
SP: Socket to Pin

5 | Shell Finish Type

1: Electroless Nickel
2: Cadmium
3: Chem Film
4: Gold
5: Black Anodize
6: Silver
7: Passivated (Only Stainless Steel)
8: Zinc Nickel

6 | Wire Gage

4: 24 • **6:** 26 • **8:** 28 • **0:** 30

7 | Wire Standard

K: M22759/11
E: NEMA HP3 (M16878/4)
L: M22759/33

8 | Colour Code

1: 10 Colour Repeat
2: Color coded per MIL-STD-681, system
3: All White
4: All Yellow

9 | Wire Length

18: 18 inches
36: 36 inches
24: 24 inches
X: Non Standard Length

10 | Hardware Type

B: Thru-Hole • **P:** Jackpost • **HJ:** Hex Head Jackscrew
HJ1: Hex Head Jackscrew Extended
SJ: Slot Head Jackscrew
SJ1: Slot Head Jackscrew Extended
T: Threaded Insert

"Reference part number for **72"** non-standard wire length configuration." • **ARMMDBBS-AP9S14K1X-B-72**

B

Thru-Hole, No Mounting Hardware

P

Jackpost

HJ

Hex Head Jackscrew

HJ1

Hex Head Jackscrew Extended

SJ

Slot Head Jackscrew

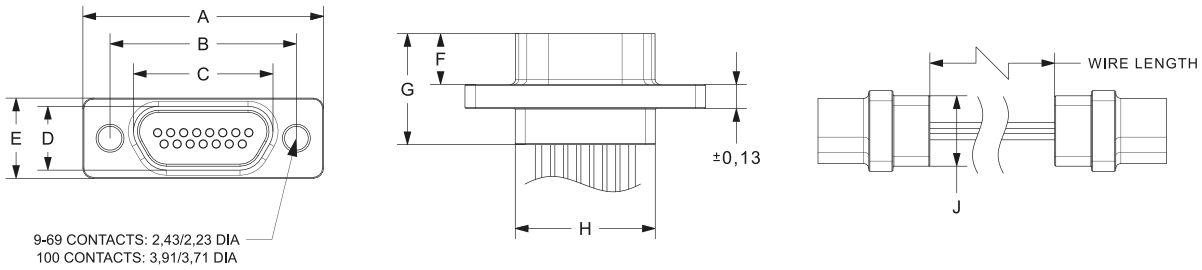
SJ1

Slot Head Jackscrew Extended

T

Threaded Insert

ARMMDBBS



Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.	H Max.	J Max.
9P	19,94	14,35	8,46	4,67	7,87	4,65	10,57	10,16	6,86
9S	19,94	14,35	10,16	6,35	7,87	4,95	10,90	10,16	6,86
15P	23,75	18,16	12,27	4,67	7,87	4,65	10,57	13,97	6,86
15S	23,75	18,16	14	6,35	7,87	4,95	10,90	13,97	6,86
21P	27,56	21,97	16,08	4,67	7,87	4,65	10,57	17,78	6,86
21S	27,56	21,97	17,81	6,35	7,87	4,95	10,90	17,78	6,86
25P	30,01	24,51	18,62	4,67	7,87	4,65	10,57	20,32	6,86
25S	30,01	24,51	20,35	6,35	7,87	4,95	10,90	20,32	6,86
31P	33,91	28,32	22,43	4,67	7,87	4,65	10,57	24,13	6,86
31S	33,91	28,32	24,16	6,35	7,87	4,95	10,90	24,13	6,86
37P	37,72	32,13	26,24	4,67	7,87	4,65	10,57	27,94	6,86
37S	37,72	32,13	27,96	6,35	7,87	4,95	10,90	27,94	6,86
51-2P	46,61	41,02	35,15	4,67	7,87	4,65	10,57	36,83	6,86
51-2S	46,61	41,02	36,83	6,35	7,87	4,95	10,90	36,83	6,86
51P	36,45	30,86	24,97	5,79	8,92	4,65	10,57	26,67	7,87
51S	36,45	30,86	26,7	7,52	8,92	4,95	10,90	26,67	7,87
69P	44,07	38,48	32,61	5,79	8,92	4,65	10,57	34,29	7,87
69S	44,07	38,48	34,29	7,52	8,92	4,95	10,90	34,29	7,87
100P	55,12	45,72	35,13	6,86	10,01	4,65	10,57	36,63	9,14
100S	55,12	45,72	36,86	8,46	10,01	4,95	10,90	36,63	9,14

Dimensions given are in mm

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

FLOATING MOUNT PRE-WIRED

ARMMDFMPW

Floating Mount Pre-Wired
Micro-D Connector Series

Factory-terminated leads save assembly time and ensure consistent quality.

Floating Mount Design; Provides flexibility to absorb misalignment and mechanical stress during installation.

Engineered for demanding defense, aerospace, avionics, and industrial applications.

ARMMDFMPW-

Floating Mount Pre-Wired Micro-D Connector Series

	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	
Series	Shell Material	Insulator Material	Contact Layout	Contact Type	Shell Finish Type	Wire Gage	Wire Standard	Colour Code	Wire Length	Hardware Type (Only Female)	Hardware Type (Only Male)
ARMMDFMPW	- A	P	9	S	1	4	K	1	18	- FL	- GP3

1 | Shell Material

A: Aluminum
SS: Stainless Steel

2 | Insulator Material

P: PPS or LCP

LCP-30% Glass-Filled Liquid Crystal Polymer

PPS-40% Glass-Filled Polyphenylene Sulfide

3 | Contact Layout

9, 15, 21, 25, 31, 37, 51-2, 51, 69, 100

4 | Contact Type

S: Socket (Female)
P: Pin (Male)

5 | Shell Finish Type

1: Electroless Nickel
2: Cadmium
3: Chem Film
4: Gold
5: Black Anodize
6: Silver
7: Passivated (Only Stainless Steel)

6 | Wire Gage

4: 24 • **6:** 26 • **8:** 28 • **0:** 30

7 | Wire Standard

K: M22759/11
E: NEMA HP3 (M16878/4)
L: M22759/33

8 | Colour Code

1: 10 Colour Repeat
2: Color coded per MIL-STD-681, system
3: All White
4: All Yellow

9 | Wire Length

18: 18 inches
36: 36 inches
24: 24 inches
X: Non Standard Length

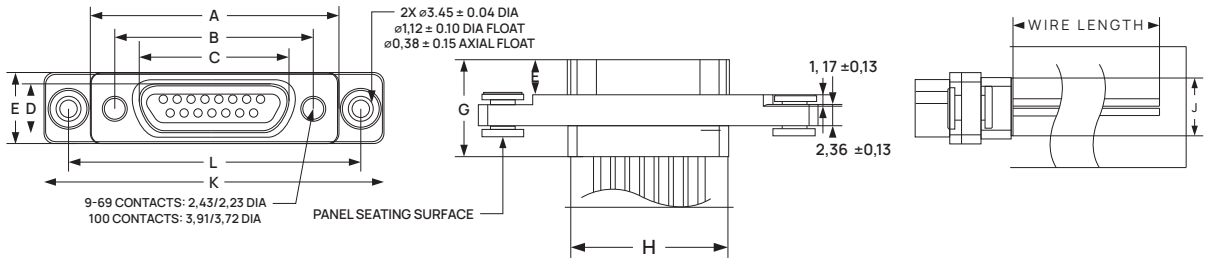
10 | Hardware Type

Float Mount Bushings (Only Female)	Guide Pin (Only Male)
FL	**GP1:** 0.8 mm Thickness
	GP2: 1.2 mm Thickness
	GP3: 1.6 mm Thickness
	GP4: 2 mm Thickness
	GP5: 2.4 mm Thickness
	GP6: 3.2 mm Thickness

"Reference part number for **72"** non-standard wire length configuration." • **ARMMDFMPW-AP9S14K1X-FL-72**

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

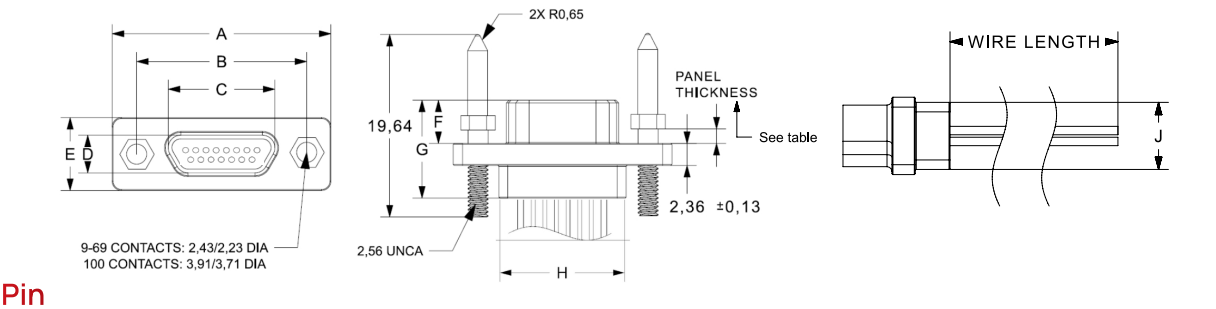
Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel



Socket

Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.	H Max.	J Max.	K	L
9S	19,94	14,35	10,16	6,35	7,87	4,95	10,90	10,16	6,86	29,99	24.00
15S	23,75	18,16	14.00	6,35	7,87	4,95	10,90	13,97	6,86	33,8	27,81
21S	27,56	21,97	17,81	6,35	7,87	4,95	10,90	17,78	6,86	37,59	31,62
25S	30,01	24,51	20,35	6,35	7,87	4,95	10,90	20,32	6,86	40,13	34,16
31S	33,91	28,32	24,16	6,35	7,87	4,95	10,90	24,13	6,86	43,96	37,97
37S	37,72	32,13	27,96	6,35	7,87	4,95	10,90	27,94	6,86	47,77	41,78
51-2S	46,61	41,02	36,83	6,35	7,87	4,95	10,90	36,83	6,86	56,66	50,67
51S	36,45	30,86	26,7	7,52	8,92	4,95	10,90	26,67	7,87	46,5	40,51
69S	44,07	38,48	34,29	7,52	8,92	4,95	10,90	34,29	7,87	54,1	48,13
100S	55,12	45,72	36,86	8,46	10,01	4,95	10,90	36,63	9,14	65,17	55,37

Dimensions given are in mm



Pin

Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.	H Max.	J Max.
9P	19,94	14,35	8,46	4,67	7,87	4,65	10,57	10,16	6,86
15P	23,75	18,16	12,27	4,67	7,87	4,65	10,57	13,97	6,86
21P	27,56	21,97	16,08	4,67	7,87	4,65	10,57	17,78	8,86
25P	30,01	24,51	12,62	4,67	7,87	4,65	10,57	20,32	6,86
31P	33,91	28,32	22,43	4,67	7,87	4,65	10,57	24,13	6,86
37P	37,72	32,13	23,24	4,67	7,87	4,65	10,57	27,94	6,86
51-2P	46,61	41,02	35,15	4,67	7,87	4,65	10,57	36,83	6,86
51P	36,45	30,86	24,97	5,79	8,92	4,65	10,51	26,67	7,87
69P	44,07	38,48	32,61	5,79	8,92	4,65	10,57	34,29	7,87
100P	55,12	45,72	35,13	6,86	10,01	4,65	10,57	36,63	9,14

Dimensions given are in mm

FLOATING MOUNT STRAIGHT BOARD

ARMMDFMSB

Floating Mount Straight Board
Micro-D Connector Series

Straight Thru-Hole Design; Ensures reliable PCB mounting with precise alignment and mechanical stability.

Designed to withstand harsh environmental conditions and repeated mating cycles.

Straight mount design simplifies PCB layout and assembly processes.

ARMMDFMSB-

Floating Mount Straight Board Micro-D Connector Series

	1.	2.	3.	4.	5.	6.	7.	8.	
Series	Shell Material	Insulator Material	Contact Layout	Contact Type	Shell Finish Type	Conductor Plating	Tail Length	Hardware Type (Only Female)	Hardware Type (Only Male)
ARMMDFMSB	- A	P	9	S	1	G	1	- FL	GP3

1 | Shell Material

A: Aluminum

SS: Stainless Steel

2 | Insulator Material

P: PPS or LCP

LCP-30% Glass-Filled Liquid Crystal Polymer

PPS-40% Glass-Filled Polyphenylene Sulfide

3 | Contact Layout

9, 15, 21, 25, 31, 37, 51-2, 51, 69, 100

4 | Contact Type

S: Socket (Female)

P: Pin (Male)

5 | Shell Finish Type

1: Electroless Nickel

2: Cadmium

3: Chem Film

4: Gold

5: Black Anodize

6: Silver

7: Passivated (Only Stainless Steel)

8: Zinc Nickel

6 | Conductor Plating

G: Gold Plated Solid Conductor

T: Tin Plated Solid Conductor

D: Flash Gold Plated Solid Conductor

N: Nickel Plated Solid Conductor

7 | Tail Length

1: 0.110" (2.79 mm)

2: 0.140" (3.56 mm)

3: 0.190" (4.83 mm)

X: Non Standard

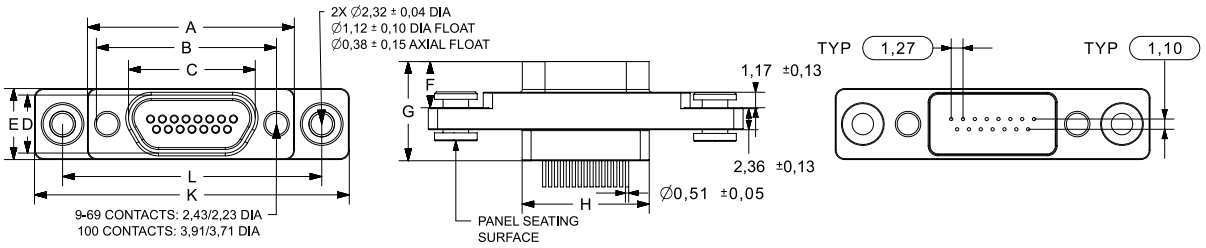
8 | Hardware Type

Float Mount Bushings (Only Female)	Guide Pin (Only Male)
FL	**GP1:** 0.8 mm Thickness
	GP2: 1.2 mm Thickness
	GP3: 1.6 mm Thickness
	GP4: 2 mm Thickness
	GP5: 2.4 mm Thickness
	GP6: 3.2 mm Thickness

"Reference part number for **.172"** non-standard tail length configuration." • ARMMDFMSB-AP9S1GX-FL-.172

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

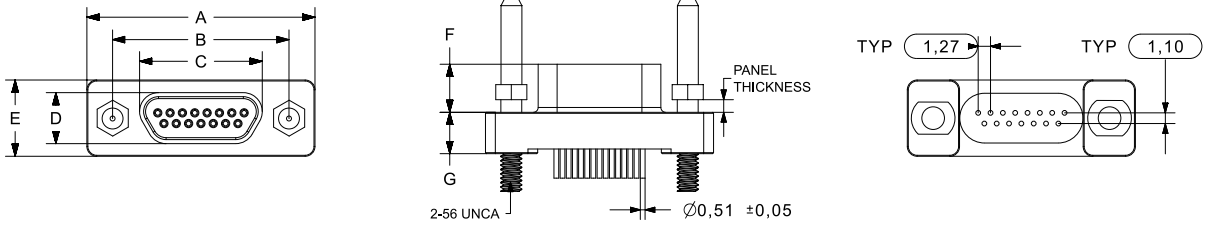
Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel



Socket

Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.	H Max.	J Max.	K	L
9S	19,94	14,35	10,16	6,35	7,87	4,95	10,90	10,16	6,86	29,99	24
15S	23,75	18,16	14.00	6,35	7,87	4,95	10,90	13,97	6,86	33,8	27,81
21S	27,56	21,97	17,81	6,35	7,87	4,95	10,90	17,78	6,86	37,59	31,62
25S	30,01	24,51	20,35	6,35	7,87	4,95	10,90	20,32	6,86	40,13	34,16
31S	33,91	28,32	24,16	6,35	7,87	4,95	10,90	24,13	6,86	43,96	37,97
37S	37,72	32,13	27,96	6,35	7,87	4,95	10,90	27,94	6,86	47,77	41,78
51-2S	46,61	41,02	36,83	6,35	7,87	4,95	10,90	36,83	6,86	56,66	50,67
51S	36,45	30,86	26,7	7,52	8,92	4,95	10,90	26,67	7,87	46,5	40,51
69S	44,07	38,48	34,29	7,52	8,92	4,95	10,90	34,29	7,87	54,1	48,13
100S	55,12	45,72	36,86	8,46	10,01	4,95	10,90	36,63	9,14	65,17	55,37

Dimensions given are in mm



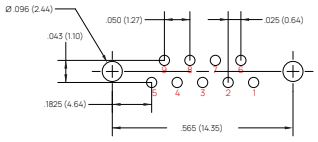
Pin

Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.
9P	19,94	14,35	8,46	4,67	7,87	4,65	6,09
15P	23,75	18,16	12,27	4,67	7,87	4,65	6,09
21P	27,56	21,97	16,08	4,67	7,87	4,65	6,09
25P	30,01	24,51	12,62	4,67	7,87	4,65	6,09
31P	33,91	28,32	22,43	4,67	7,87	4,65	6,09
37P	37,72	32,13	23,24	4,67	7,87	4,65	6,09
51-2P	46,61	41,02	35,15	4,67	7,87	4,65	6,09
51P	36,45	30,86	24,97	5,79	8,92	4,65	6,09
69P	44,07	38,48	32,61	5,79	8,92	4,65	6,09
100P	55,12	45,72	35,13	6,86	10,01	4,65	6,09

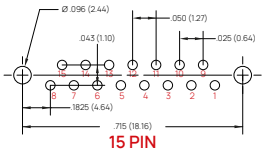
Dimensions given are in mm

PCB Layouts

Pin - Socket Connectors



9 PIN



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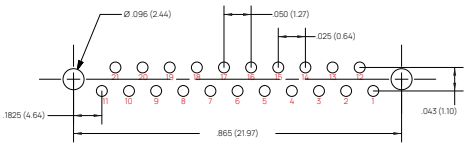

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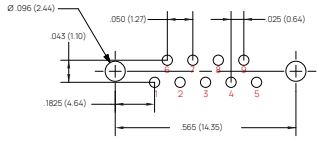

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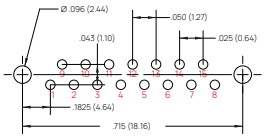

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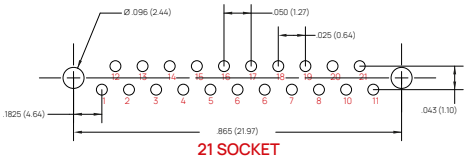

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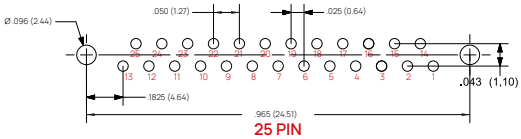

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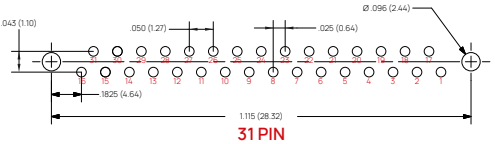

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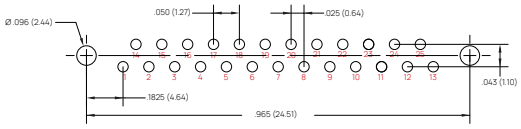

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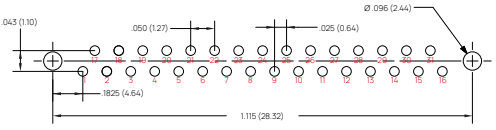

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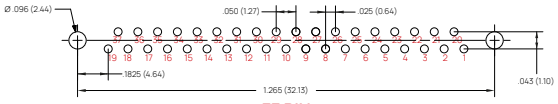

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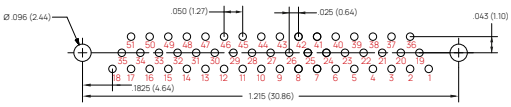

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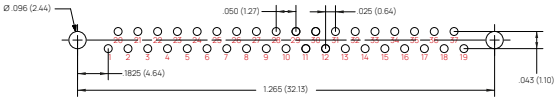

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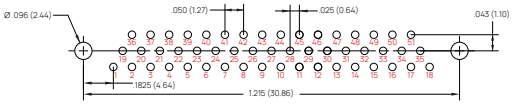

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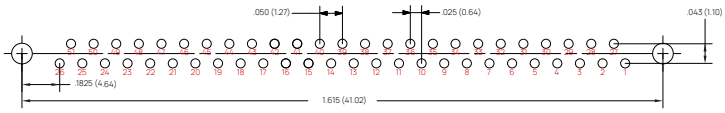

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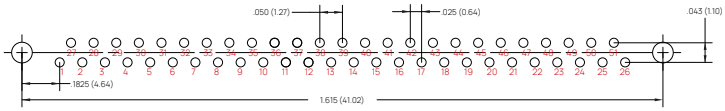

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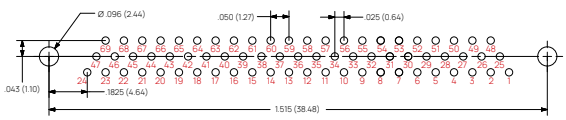

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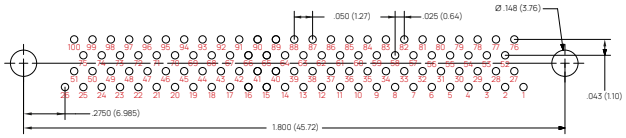

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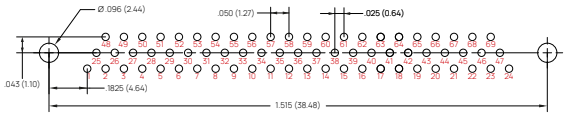

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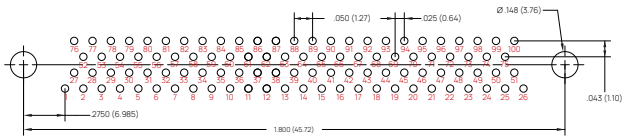


100 SOCKET

SAVER

ARMMDS

Saver
Micro-D Connector Series

Designed to safeguard mating interfaces during frequent test or maintenance operations, the Saver Micro-D Series acts as a protective extension to preserve connector integrity and longevity.

Precision-machined shells and gold-plated contacts ensure stable electrical performance under repeated mating cycles, maintaining consistent low contact resistance over time.

Ideal for mission-critical systems where reliability and serviceability are essential, offering an effective solution to minimize wear without compromising electrical or mechanical performance.

ARMMDS-

Saver
Micro-D Connector Series

	1.	2.	3.	4.	5.
Series	**Shell Material**	**Insulator Material**	**Contact Layout**	**Shell Finish Type**	**Hardware Type**
ARMMDS	- A	P	9	1	- B

1 I Shell Material

A: Aluminum

SS: Stainless Steel

2 I Insulator Material

P: PPS or LCP

LCP-30% Glass-Filled Liquid Crystal Polymer

PPS-40% Glass-Filled Polyphenylene Sulfide

3 I Contact Layout

9, 15, 21, 25, 31, 37, 51-2, 51, 69, 100

4 I Shell Finish Type

1: Electroless Nickel

2: Cadmium with Yellow Chromate

3: Chem Film

4: Gold

5: Black Anodize

6: Silver

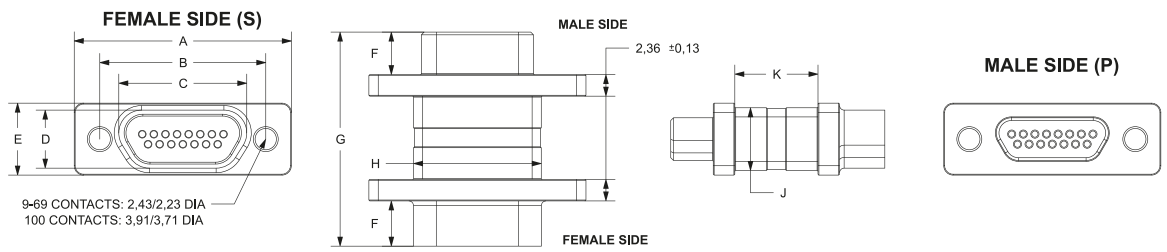
7: Passivated
(Only Stainless Steel)

5 I Hardware Type

B: Thru-Hole • **P1:** Extended Jackpost (uninstalled)

PFM: Jackpost (Plug and Receptacle) (uninstalled)

PJ: Jackpost and Jackscrew (uninstalled)



Layout		A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.	H Max.	J Max.	K Max.
9	P	19,94	14,35	8,46	4,67	7,87	4,65	23,45	10,16	6,86	9,00
	S			10.16	6.35		4.95				
15	P	23,75	18,16	12,27	4,67	7,87	4,65	23,45	13,97	6,86	9,00
	S			14,00	6,35		4.95				
21	P	27,56	21,97	16,08	4,67	7,87	4,65	23,45	17,78	6,86	9,00
	S			17,81	6,35		4,95				
25	P	30,01	24,51	18,62	4,67	7,87	4,65	23,45	20,32	6,86	9,00
	S			20,35	6,35		4,95				
31	P	33,91	28,32	22,43	4,67	7,87	4,65	23,45	24,13	6,86	9,00
	S			24,16	6,35		4,95				
37	P	37,72	32,13	26,24	4,67	7,87	4,65	23,45	27,94	6,86	9,00
	S			27,96	6,35		4,95				
51-2	P	46,61	41,02	35,15	4,67	7,87	4,65	23,45	36,83	6,86	9,00
	S			36,83	6,35		4,95				
51	P	36,45	30,86	24,97	5,79	8,92	4,65	23,45	26,67	7,87	9,00
	S			26,70	7,52		4,95				
69	P	44,07	38,48	32,61	5,79	8,92	4,65	23,45	34,29	7,87	9,00
	S			34,29	7,52		4,95				
100P	P	55,12	45,72	35,13	6,86	10,01	4,65	23,45	36,63	9,14	9,00
	S			36,86	8,46		4,95				

Dimensions given are in mm

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

METAL SHELL STRAIGHT BOARD THRU-HOLE MOUNT

ARMMDBS

Metal Shell Straight Board Thru-Hole Mount
Micro-D Connector Series

Metal shell construction provides excellent performance under vibration, shock, and extreme environmental conditions.

Easy PCB Integration; Straight thru-hole design enables secure and efficient mounting on printed circuit board

Gold-plated contacts and premium materials make it suitable for defense, aerospace, and industrial automation applications.

ARMMDBS-

Metal Shell Straight Board Thru-Hole Mount Micro-D Connector Series

	1.	2.	3.	4.	5.	6.
Series	**Shell Material**	**Insulator Material**	**Contact Layout**	**Contact Type**	**Shell Finish Type**	**Hardware Type**
ARMMDBS	- A	P	9	S	1	- B

1 I Shell Material

A: Aluminum **SS:** Stainless Steel

2 I Insulator Material

P: PPS or LCP

LCP-30% Glass-Filled Liquid Crystal Polymer

PPS-40% Glass-Filled Polyphenylene Sulfide

3 I Contact Layout

9, 15, 21, 25, 31, 37, 51-2, 51, 69, 100

4 I Contact Type

S: Socket (Female) **P:** Pin (Male)

5 I Shell Finish Type

1: Electroless Nickel
2: Cadmium
3: Chem Film
4: Gold
5: Black Anodize
6: Silver
7: Passivated (Only Stainless Steel)

6 I Hardware Type

B: Thru-Hole • **P:** Jackpost • **HJ:** Hex Head Jackscrew
HJ1: Hex Head Jackscrew Extended
SJ: Slot Head Jackscrew
SJ1: Slot Head Jackscrew Extended
T: Threaded Insert

B

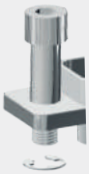
Thru-Hole, No Mounting Hardware

P

Jackpost

HJ

Hex Head Jackscrew

HJ1

Hex Head Jackscrew Extended

SJ

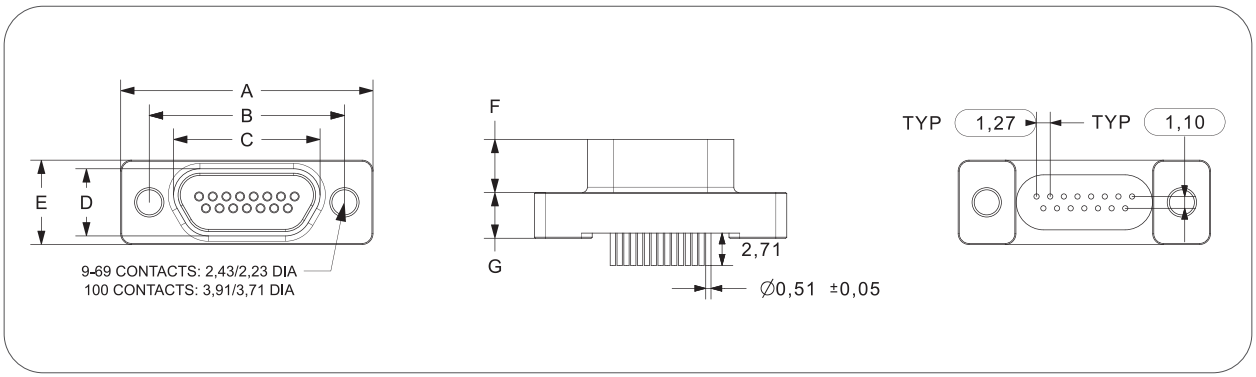
Slot Head Jackscrew

SJ1

Slot Head Jackscrew Extended

T

Threaded Insert



Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.
9P	19,94	14,35	8,46	4,67	7,87	4,65	4,30
9S	19,94	14,35	10,16	6,35	7,87	4,95	4,30
15P	23,75	18,16	12,27	4,67	7,87	4,65	4,30
15S	23,75	18,16	14,00	6,35	7,87	4,95	4,30
21P	27,56	21,97	16,08	4,67	7,87	4,65	4,30
21S	27,56	21,97	17,81	6,35	7,87	4,95	4,30
25P	30,01	24,51	18,62	4,67	7,87	4,65	4,30
25S	30,01	24,51	20,35	6,35	7,87	4,95	4,30
31P	33,91	28,32	22,43	4,67	7,87	4,65	4,30
31S	33,91	28,32	24,16	6,35	7,87	4,95	4,30
37P	37,72	32,13	26,24	4,67	7,87	4,65	4,30
37S	37,72	32,13	27,96	6,35	7,87	4,95	4,30
51-2P	46,61	41,02	35,15	4,67	7,87	4,65	4,30
51-2S	46,61	41,02	36,83	6,35	7,87	4,95	4,30
51P	36,45	30,86	24,97	5,79	8,92	4,65	4,30
51S	36,45	30,86	26,70	7,52	8,92	4,95	4,30
69P	44,07	38,48	32,61	5,79	8,92	4,65	4,30
69S	44,07	38,48	34,29	7,52	8,92	4,95	4,30
100P	55,12	45,72	35,13	6,86	10,01	4,65	4,30
100S	55,12	45,72	36,86	8,46	10,01	4,95	4,30

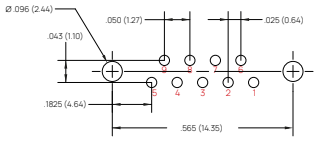
Dimensions given are in mm

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

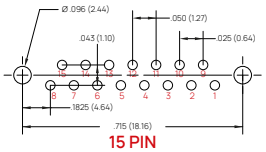
Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

PCB Layouts

Pin - Socket Connectors



9 PIN



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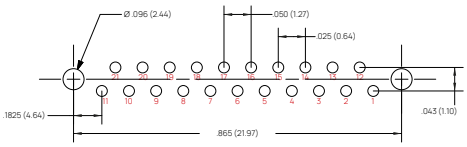

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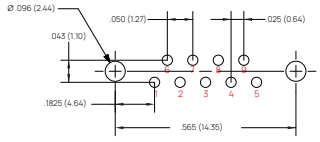

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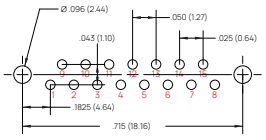

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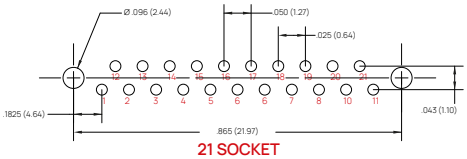

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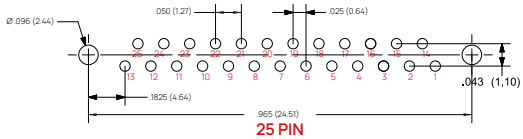

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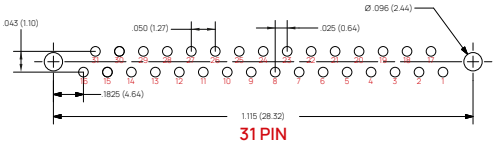

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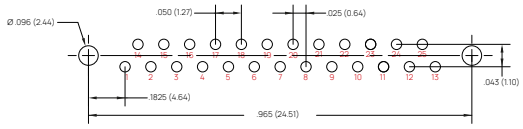

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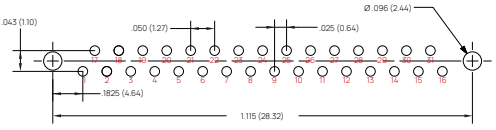

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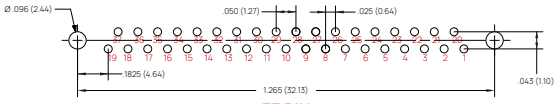

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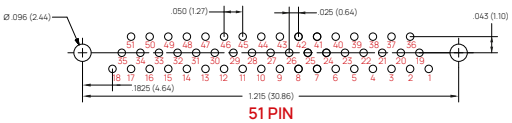

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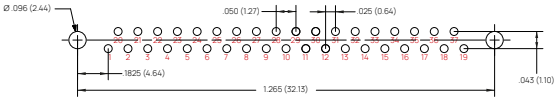

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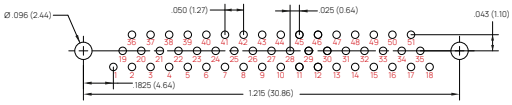

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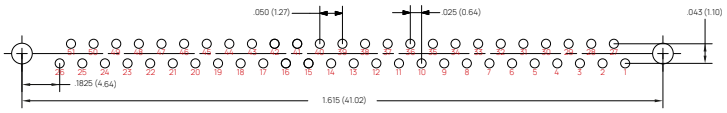
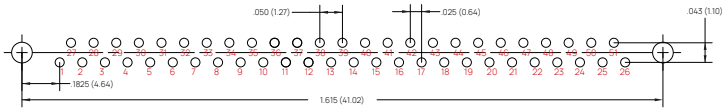


51-2 PIN



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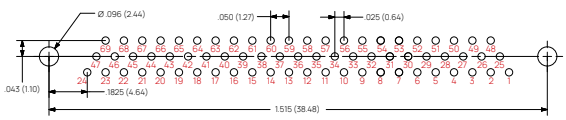

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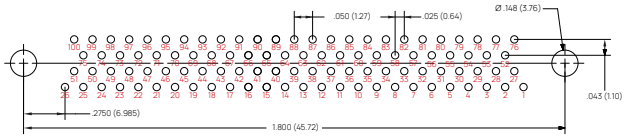

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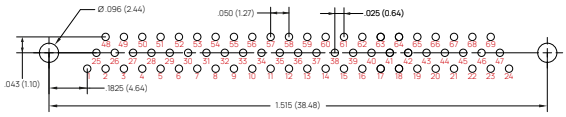

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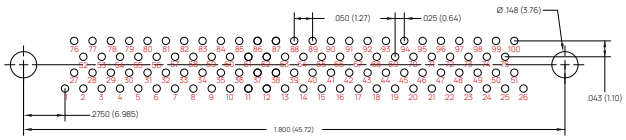


100 SOCKET

METAL SHELL RIGHT ANGLE BOARD THRU-HOLE MOUNT

ARMMDBR

Metal Shell Right Angle Board Thru-Hole Mount
Micro-D Connector Series

Enhanced Mechanical Stability; The right-angle orientation and metal shell construction provide superior mechanical strength, making it ideal for applications where space constraints and robust connections are critical.

Designed for thru-hole PCB mounting, this connector facilitates secure attachment to printed circuit boards, ensuring reliable electrical and mechanical performance in various configuration

Metal Shell Right Angle Board Thru-Hole Mount is suitable for a diverse array of applications, including aerospace, military, and industrial systems, where high-density interconnects are required.

ARMMDBR-

Metal Shell Right Angle Board Thru-Hole Mount Micro-D Connector Series

	1.	2.	3.	4.	5.	6.	7.	8.	
Series	Shell Material	Insulator Material	Contact Layout	Contact Type	Shell Finish Type	Conductor Plating	Tail Length	Hardware Type 1	Hardware Type 2
ARMMDBR	- A	P	9	S	1	G	1	- P	B

1 | Shell Material

A: Aluminum

SS: Stainless Steel

2 | Insulator Material

P: PPS or LCP

LCP-30% Glass-Filled Liquid Crystal Polymer

PPS-40% Glass-Filled Polyphenylene Sulfide

3 | Contact Layout

9, 15, 21, 25, 31, 37, 51-2, 51, 69, 100

4 | Contact Type

S: Socket (Female)

P: Pin (Male)

5 | Shell Finish Type

1: Electroless Nickel

2: Cadmium

3: Chem Film

4: Gold

5: Black Anodize

6: Silver

7: Passivated
(Only Stainless Steel)

6 | Conductor Plating

G: Gold Plated Solid Conductor

T: Tin Plated Solid Conductor

D: Flash Gold Plated Solid Conductor

N: Nickel Plated Solid Conductor

7 | Tail Length

1: 0.110" (2.79 mm)

2: 0.140" (3.56 mm)

3: 0.190" (4.83 mm)

X: Non Standard

8 | Hardware Type 1

Jackpost Option	Jackpost for Rear Panel Thickness Option (if requested)
P: Jackpost	**SH1:** 0.8 mm (.031")
Omit for none	**SH2:** 1.2 mm (.047")
	SH3: 1.6 mm (.062")
	SH4: 2 mm (.080")
	SH5: 2.4 mm (.094")
	SH6: 3.2 mm (.125")

8 | Hardware Type 2

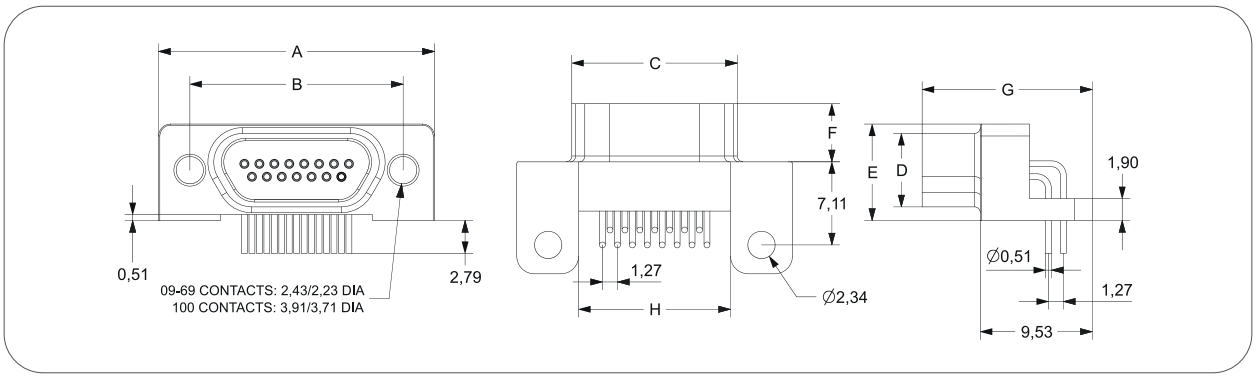
PCB Mounting Hardware Option

B: Thru-Hole

T: Threaded Insert Only

TJ: Threaded Insert w/Jackscrew

"Reference part number for .**172"** non-standard tail length configuration." • **ARMMDBR-AP9S1GX-PB-.172**



Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.	H Max.
9P	19,91	17,91	8,45	6,35	7,07	4,55	11,22	9,02
9S	19,94	14,35	13,15	6,35	7,07	4,55	14,48	9,02
15P	25,75	18,15	12,27	4,67	7,87	4,65	14,22	12,33
15S	25,75	18,15	14,03	6,35	7,87	4,55	14,48	12,33
21P	27,55	21,97	15,08	4,67	7,87	4,65	14,22	16,54
21S	27,55	21,97	17,61	6,35	7,87	4,55	14,48	16,54
25P	30,01	24,41	18,62	4,67	7,87	4,65	14,22	19,18
25S	30,01	24,51	23,35	6,35	7,07	4,55	14,48	19,1
31P	35,82	28,32	22,73	4,67	7,87	4,65	14,22	22,95
31S	32,84	28,37	24,15	6,35	7,87	4,55	14,48	22,94
37P	37,72	32,13	26,24	4,67	7,87	4,65	14,22	26,9
37S	41,27	37,23	29,42	4,67	7,87	4,65	14,22	30,81
51-2P	45,61	41,02	35,15	4,67	7,87	4,65	14,22	35,55
51-2S	45,61	41,02	35,33	6,35	7,87	4,55	14,48	35,55
51P	35,45	30,65	24,87	5,73	8,92	4,65	14,22	25,53
51S	35,45	30,65	25,73	7,52	8,92	4,55	14,48	25,53
69P	44,07	38,48	32,61	5,79	8,92	4,65	14,22	33,15
69S	44,07	38,48	34,73	7,52	8,92	4,55	14,48	33,15
100P	55,12	45,72	35,13	6,03	10,01	4,65	14,22	36,5
100S	55,12	45,72	35,85	8,45	12,01	4,95	14,48	36,5

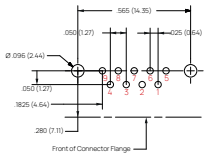
Dimensions given are in mm

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

PCB Layouts

Pin - Socket Connectors



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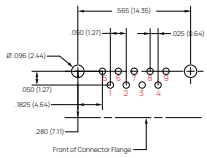
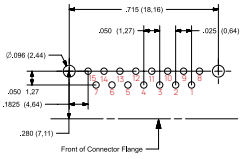


9 SOCKET



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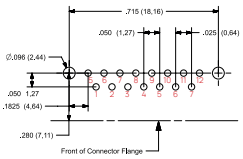

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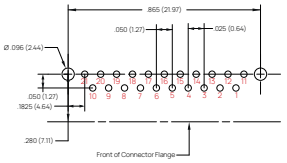

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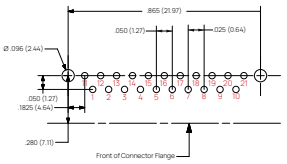

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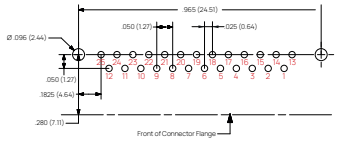

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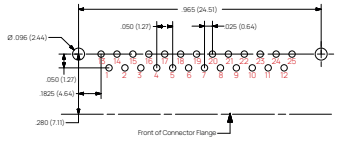

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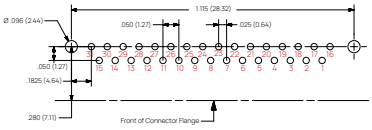

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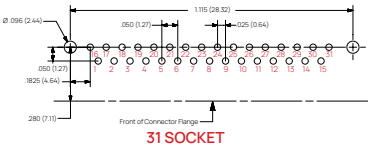

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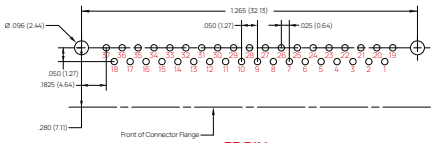

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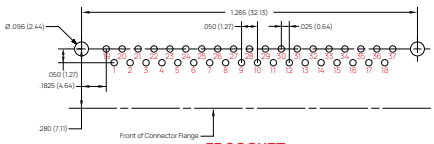

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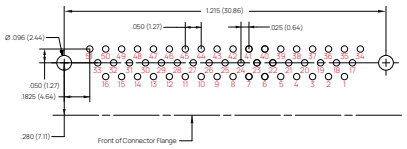

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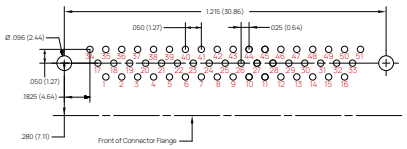

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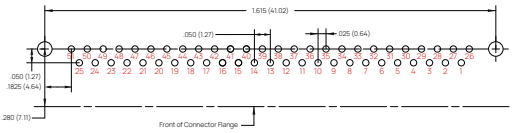

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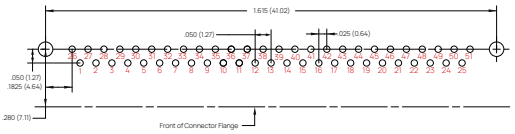

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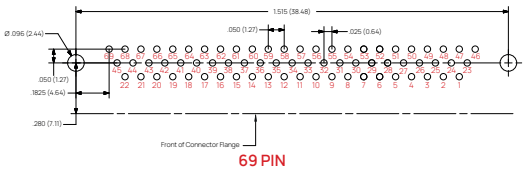

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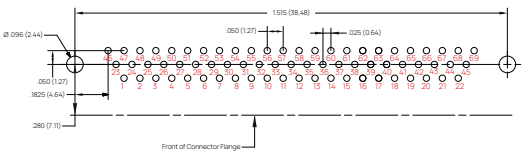

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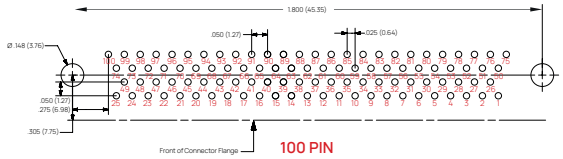

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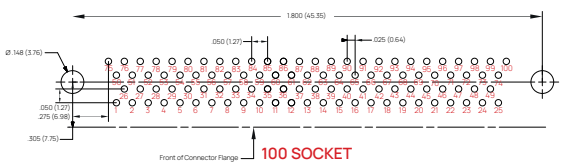


100 SOCKET

CONDENSED RIGHT ANGLE 0.100” BOARD

ARMMDCRBM

Condensed Right Angle 0.100” Board
Micro-D Connector Series

Condensed right-angle 0.100" (2.54 mm) pitch layout minimizes PCB footprint while enabling perpendicular board-to-board connections in compact systems.

Reliable Through-Hole Termination; Strong mechanical retention and consistent solder joint integrity ensure stable performance under vibration, shock, and thermal cycling.

Gold-plated contacts and precision-engineered housing provide excellent conductivity, durability, and long-term reliability in aerospace, defense, and industrial applications.

ARMMDCRBM-

Condensed Right Angle 0.100" Board Micro-D Connector Series

	1.	2.	3.	4.	5.	6.	7.	8.	
Series	Shell Material	Insulator Material	Shell Size	Contact Type	Shell Finish Type	Conductor Plating	Tail Length	Hardware Type 1	Hardware Type 2
ARMMDCRBM	- A	P	9	S	1	G	1	- SH1	B

1 | Shell Material

A: Aluminum

SS: Stainless Steel

2 | Insulator Material

P: PPS or LCP

LCP-30% Glass-Filled Liquid Crystal Polymer

PPS-40% Glass-Filled Polyphenylene Sulfide

3 | Shell Size

9, 15, 21, 25, 31, 37, 51, 69, 100,

4 | Contact Type

S: Socket (Female)

P: Pin (Male)

5 | Shell Finish Type

1: Electroless Nickel

2: Cadmium

3: Chem Film

4: Gold

5: Black Anodize

6: Silver

7: Passivated
(Only Stainless Steel)

6 | Conductor Plating

G: Gold Plated Solid Conductor

T: Tin Plated Solid Conductor

D: Flash Gold Plated Solid Conductor

N: Nickel Plated Solid Conductor

7 | Tail Length

1: 0.110" (2.79 mm)

2: 0.140" (3.56 mm)

3: 0.190" (4.83 mm)

X: Non Standard

8 | Hardware Type 1

Jackpost Option	Jackpost for Rear Panel Thickness Option (if requested)
P: Jackpost	**SH1:** 0.8 mm (.031")
Omit for none	**SH2:** 1.2 mm (.047")
	SH3: 1.6 mm (.062")
	SH4: 2 mm (.080")
	SH5: 2.4 mm (.094")
	SH6: 3.2 mm (.125")

8 | Hardware Type 2

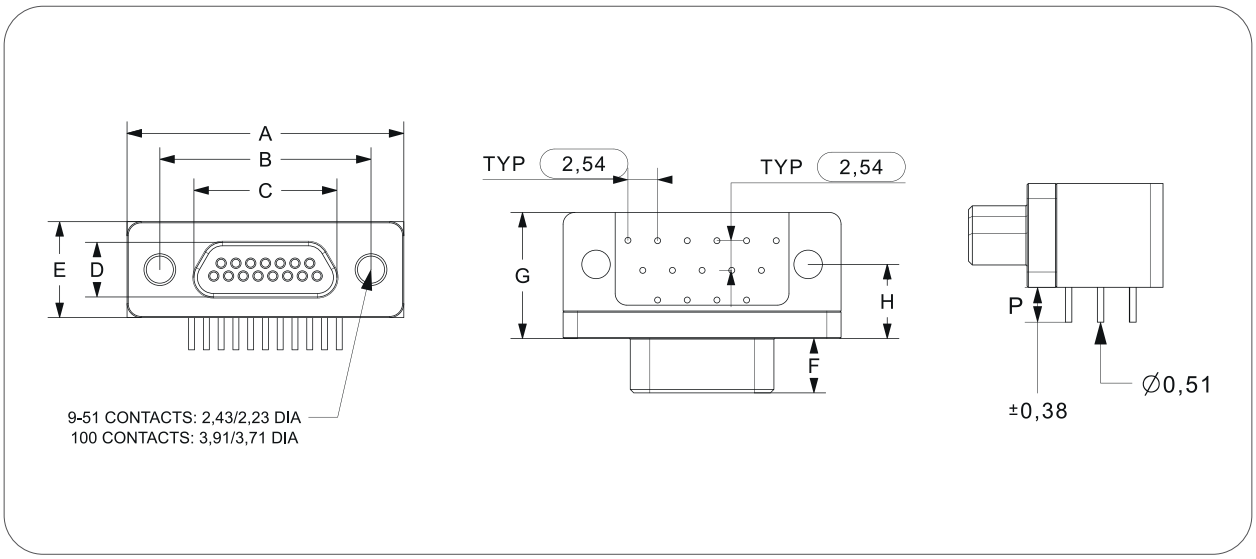
PCB Mounting Hardware Option

B: Thru-Hole

T: Threaded Insert Only

TJ: Threaded Insert w/Jackscrew

"Reference part number for .**172"** non-standard tail length configuration." • ARMMDCRBM-AP9S1GX-PB-.172



Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.	H Max.
9P	19,94	14,35	8,46	4,67	8,25	4,65	10,80	6,35
9S	19,94	14,35	10,16	6,35	8,25	4,95	10,80	6,35
15P	23,75	18,16	12,27	4,67	8,25	4,65	10,80	6,35
15S	23,75	18,16	14,00	6,35	8,25	4,95	10,80	6,35
21P	27,56	21,97	16,08	4,67	8,25	4,65	10,80	6,35
21S	27,56	21,97	17,81	6,35	7,87	4,95	10,80	6,35
25P	30,01	24,51	18,62	4,67	8,25	4,65	10,80	6,35
25S	30,01	24,51	20,35	6,35	8,25	4,95	10,80	6,35
31P	33,91	28,32	22,43	4,67	8,25	4,65	13,34	6,35
31S	33,91	28,32	24,16	6,35	8,25	4,95	13,34	6,35
37P	37,72	32,13	26,24	4,67	8,25	4,65	13,34	6,35
37S	37,72	32,13	27,96	6,35	8,25	4,95	13,34	6,35
51P	36,45	30,86	24,97	5,79	9,14	4,65	16,67	7,62
51S	36,45	30,86	26,70	7,52	9,14	4,95	16,67	7,62
100P	55,12	45,72	35,13	6,86	10,67	4,65	25,65	10,16
100S	55,12	45,72	36,86	8,46	10,67	4,95	25,65	10,16

Dimensions given are in mm

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

MS83513/10 thru /15 Micro-D

CBR Condensed Right Angle PCB Terminated Connectors

PC Tail Coating

PC tails are 0.51 mm (0.020") diameter and are silver, gold, nickel or tin plated and solder dipped.

PC Tail Spacing

2.54 mm (0.100") between rows.

Threaded Inserts

Inserts are stainless steel.

Intermatability

These connectors are intermateable with all of the metal shell MS83513/10 thru /15 connectors.

	1.	2.	3.	4.
Base Part Number	**Slash Number Shell Size**	**PC Tail Length**	**Shell Finish**	**Hardware Options**
MS83513/	31-A	01	N	N

1 | Slash Number - Shell Size

Plug (Pin Contacts)

10-A: 9 Contacts
10-B: 15 Contacts
10-C: 21 Contacts
10-D: 25 Contacts
10-E: 31 Contacts
10-F: 37 Contacts
11-G: 51 Contacts
12-H: 100 Contacts

Receptacle (Socket Contacts)

13-A: 9 Contacts
13-B: 15 Contacts
13-C: 21 Contacts
13-D: 25 Contacts
13-E: 31 Contacts
13-F: 37 Contacts
14-G: 51 Contacts
15-H: 100 Contacts

2 | PC Tail Length

01: 2.77 mm (0.109")
02: 3.56 mm (0.140")
03: 4.37 mm (0.172")

PC Tail Length ± 0.38 mm (0.015")

3 | Shell Finish

C: Cadmium
A: Electrodeposited Aluminum
N: Electroless Nickel
K: Zinc Nickel
P: Passivated (Only Stainless Steel)

4 | Hardware Options

N: No Jackpost
P: Jackpost Installed

Sizes 9-51

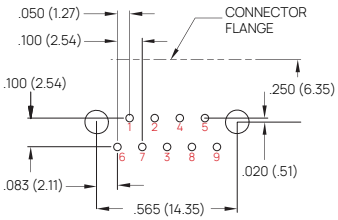
T: Threaded Insert in Board Mount Hole (No Jackposts)
W: Threaded Insert in Board Mount Hole and Jackposts Installed

Shell Size 100 (H)

U: #4-40 Threaded Insert
Y: #4-40 Threaded Insert & Jackpost

PCB Layouts

Pin Connectors



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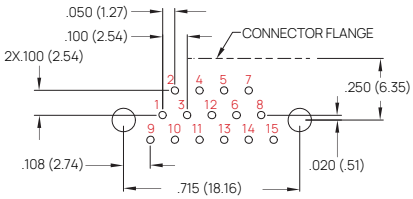

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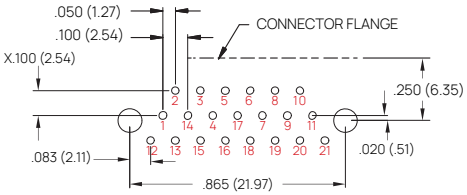

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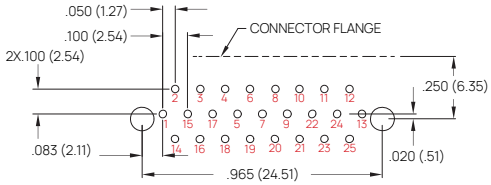

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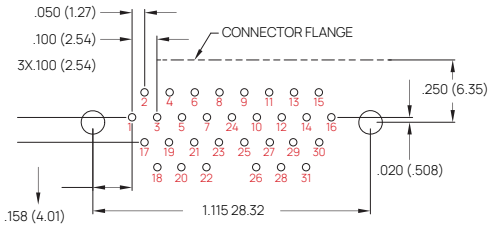

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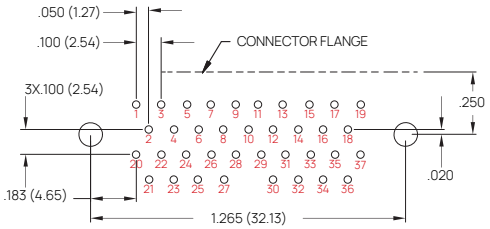

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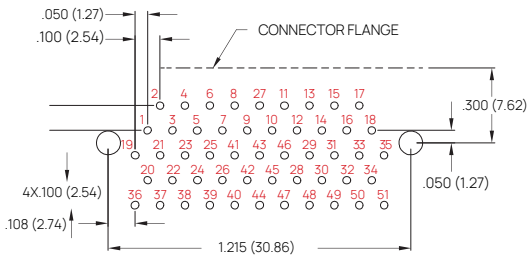

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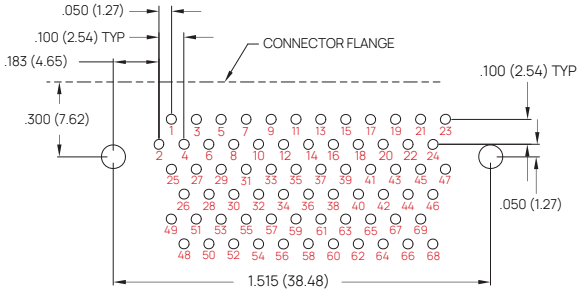

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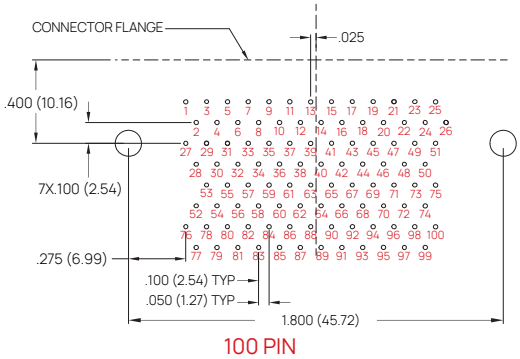
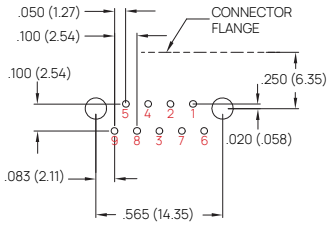


100 PIN

PCB Layouts

Socket Connectors



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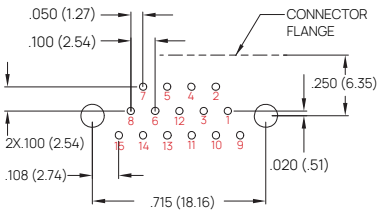

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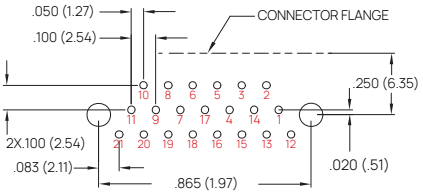

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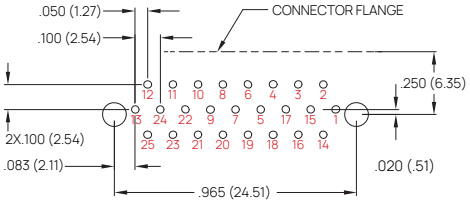

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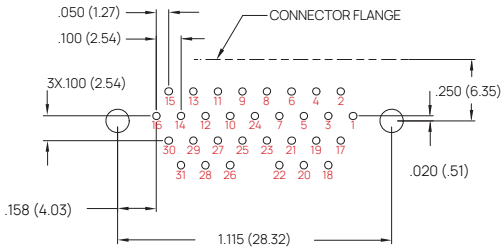

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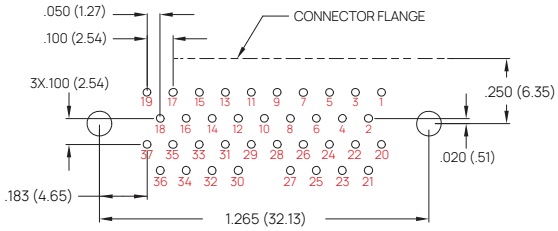

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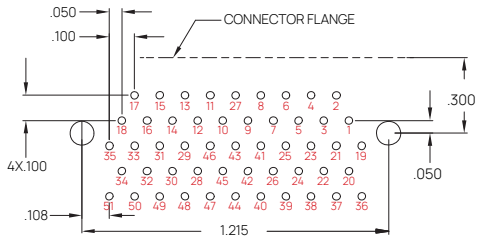

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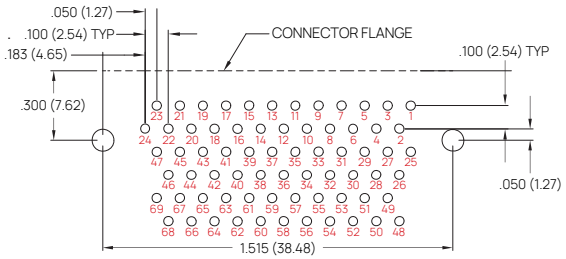

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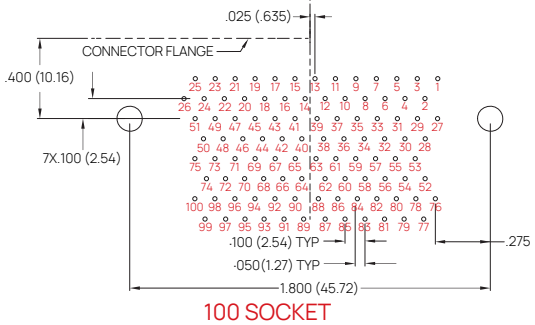
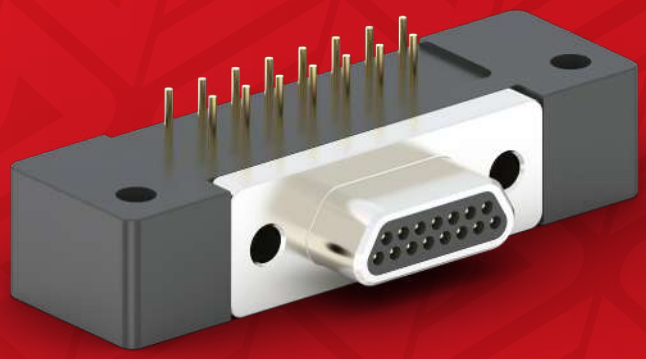


100 SOCKET

RIGHT ANGLE 0.100” BOARD MOUNT

ARMMDRBM

Right Angle 0.100” Board Mount
Micro-D Connector Series



Right-angle 0.100" (2.54 mm) pitch design enables perpendicular mounting to the PCB surface, optimizing space usage in compact assemblies and improving routing flexibility.

Thru-hole pins ensure secure mechanical retention and enhanced solder joint reliability, suited for production environments requiring vibration resistance and long-life service.

Gold-plated contacts and durable shell materials ensure excellent conductivity and long-term reliability for industrial, aerospace, and defense applications.

ARMMDRBM-

Right Angle 0.100" Board Mount Micro-D Connector Series

	1.	2.	3.	4.	5.	6.	7.	8.	
Series	Shell Material	Insulator Material	Contact Layout	Contact Type	Shell Finish Type	Conductor Plating	Tail Length	Hardware Type 1	Hardware Type 2
ARMMDRBM	- A	P	9	S	1	G	1	- P	B

1 | Shell Material

A: Aluminum

SS: Stainless Steel

2 | Insulator Material

P: PPS or LCP

LCP-30% Glass-Filled Liquid Crystal Polymer

PPS-40% Glass-Filled Polyphenylene Sulfide

3 | Contact Layout

9, 15, 21, 25, 31, 37, 51, 69, 100

4 | Contact Type

S: Socket (Female)

P: Pin (Male)

5 | Shell Finish Type

1: Electroless Nickel

2: Cadmium

3: Chem Film

4: Gold

5: Black Anodize

6: Silver

7: Passivated
(Only Stainless Steel)

6 | Conductor Plating

G: Gold Plated Solid Conductor

T: Tin Plated Solid Conductor

D: Flash Gold Plated Solid Conductor

N: Nickel Plated Solid Conductor

7 | Tail Length

1: 0.110" (2.79 mm)

2: 0.140" (3.56 mm)

3: 0.190" (4.83 mm)

X: Non Standard

8 | Hardware Type 1

Jackpost Option	Jackpost for Rear Panel Thickness Option (if requested)
P: Jackpost	**SH1:** 0.8 mm (.031")
Omit for none	**SH2:** 1.2 mm (.047")
	SH3: 1.6 mm (.062")
	SH4: 2 mm (.080")
	SH5: 2.4 mm (.094")
	SH6: 3.2 mm (.125")

8 | Hardware Type 2

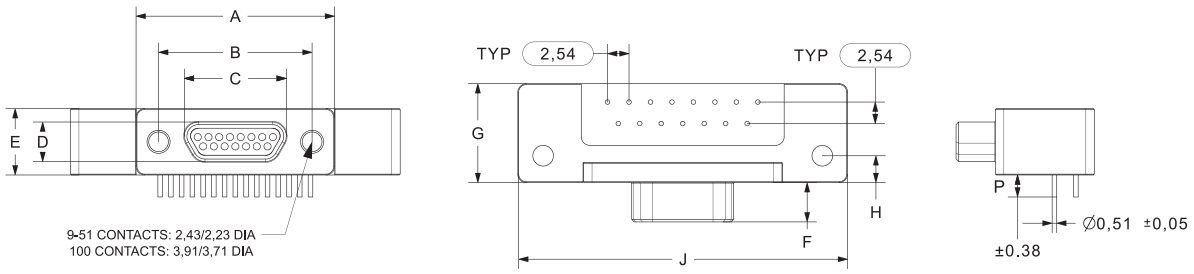
PCB Mounting Hardware Option

B: Thru-Hole

T: Threaded Insert Only

TJ: Threaded Insert w/Jackscrew

"Reference part number for **.172"** non-standard tail length configuration." • **ARMMDRBM-AP9S1GX-PB-.172**



Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.	H Max.	J Max.
9P	19,94	14,35	8,46	4,67	8,25	4,64	11,80	3,17	35,31
9S	19,94	14,35	10,16	6,35	8,25	4,95	11,80	3,17	35,31
15P	23,75	18,16	12,27	4,67	8,25	4,65	11,80	3,17	39,12
15S	23,75	18,16	14,00	6,35	8,25	4,95	11,80	3,17	39,12
21P	27,56	21,97	16,08	4,67	8,25	4,65	11,80	3,17	42,93
21S	27,56	21,97	17,81	6,35	8,25	4,95	11,80	3,17	42,93
25P	30,01	24,51	18,62	4,67	8,25	4,65	11,80	3,17	45,47
25S	30,01	24,51	20,35	6,35	8,25	4,95	11,80	3,17	45,47
31P	33,91	28,32	22,43	4,67	8,25	4,65	11,80	3,17	51,82
31S	33,91	28,32	24,16	6,35	8,25	4,95	11,80	3,17	51,82
37P	37,72	32,13	26,24	4,67	8,25	4,65	11,80	3,17	59,44
37S	37,72	32,13	27,96	6,35	8,25	4,95	11,80	3,17	59,44
51P	36,45	30,86	24,97	5,79	9,14	4,65	14,35	3,17	47,63
51S	36,45	30,86	26,70	7,52	9,14	4,95	14,35	3,17	47,63
100P	55,12	45,72	35,13	6,86	10,67	4,65	19,45	5,71	70,61
100S	55,12	45,72	36,86	8,46	10,67	4,95	19,45	5,71	70,61

Dimensions given are in mm

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

MS83513/16 thru /21 Micro-D

BR Right Angle PCB Terminated Connectors

PC Tail Coating

PC tails are 0.51 mm (0.020") diameter and are silver, gold, nickel or tin plated and solder dipped.

PC Tail Spacing

2.54 mm (0.100") between rows.

Threaded Inserts

Inserts are stainless steel.

Intermatability

These connectors are intermateable with all of the metal shell MS83513/16 thru /21 connectors.

	1.	2.	3.	4.
Base Part Number	**Slash Number Shell Size**	**PC Tail Length**	**Shell Finish**	**Hardware Options**
MS83513/	19-A	01	N	N

1 | Slash Number - Shell Size

Plug (Pin Contacts)

16-A: 9 Contacts
16-B: 15 Contacts
16-C: 21 Contacts
16-D: 25 Contacts
16-E: 31 Contacts
16-F: 37 Contacts
17-G: 51 Contacts
18-H: 100 Contacts

Receptacle (Socket Contacts)

19-A: 9 Contacts
19-B: 15 Contacts
19-C: 21 Contacts
19-D: 25 Contacts
19-E: 31 Contacts
19-F: 37 Contacts
20-G: 51 Contacts
21-H: 100 Contacts

2 | PC Tail Length

01: 2.77 mm (0.109")
02: 3.56 mm (0.140")
03: 4.37 mm (0.172")

PC Tail Length ± 0.38 mm (0.015")

3 | Shell Finish

C: Cadmium
A: Electrodeposited Aluminum
N: Electroless Nickel
K: Zinc Nickel
P: Passivated (Only Stainless Steel)

4 | Hardware Options

N: No Jackpost
P: Jackpost Installed

Sizes 9-51

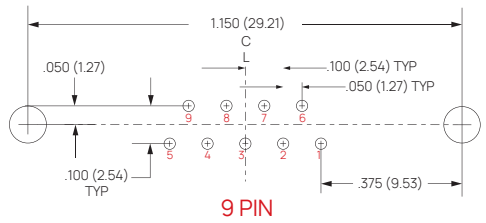
T: Threaded Insert in Board Mount Hole (No Jackposts)
W: Threaded Insert in Board Mount Hole and Jackposts Installed

Shell Size 100 (H)

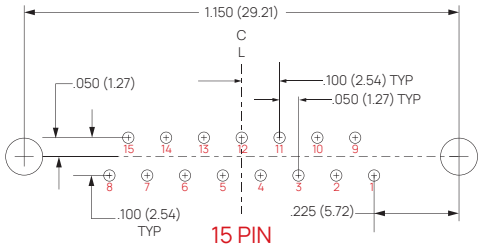
U: #4-40 Threaded Insert
Y: #4-40 Threaded Insert & Jackpost

PCB Layouts

Pin Connectors



9 PIN



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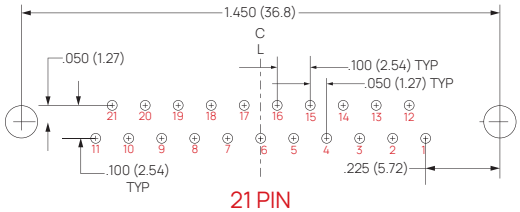

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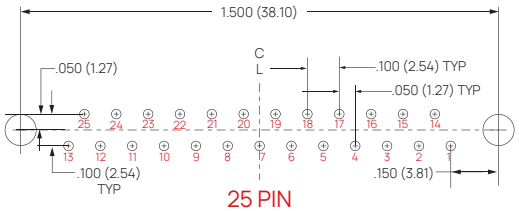

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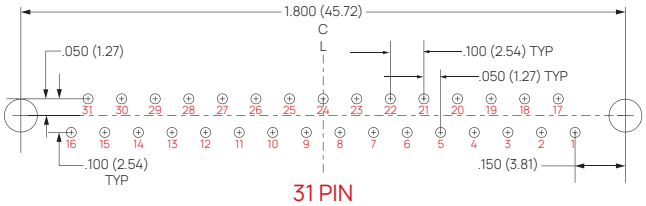

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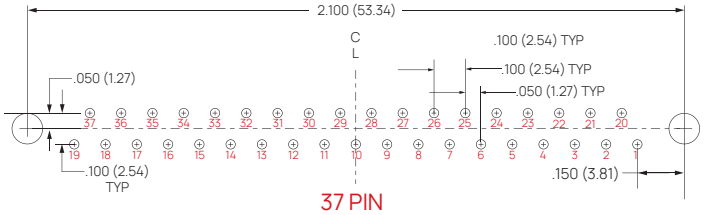

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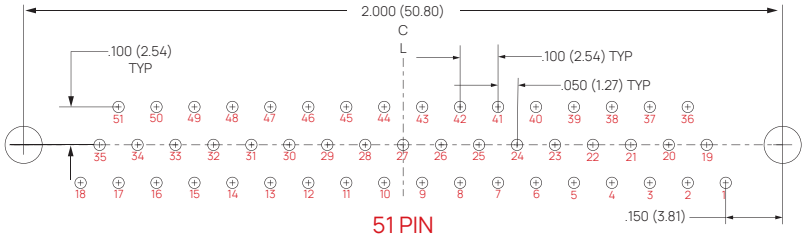

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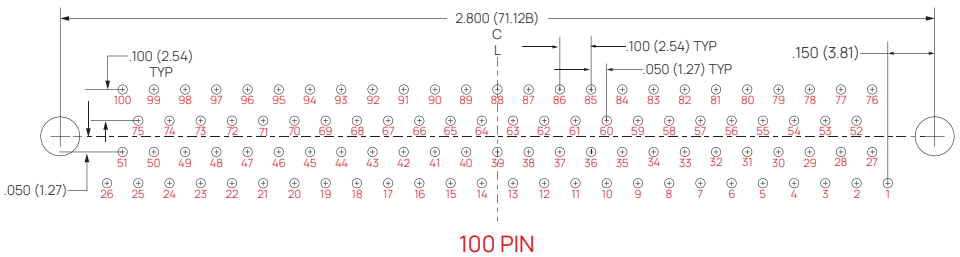
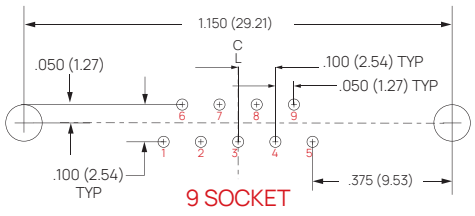


100 PIN

PCB Layouts

Socket Connectors



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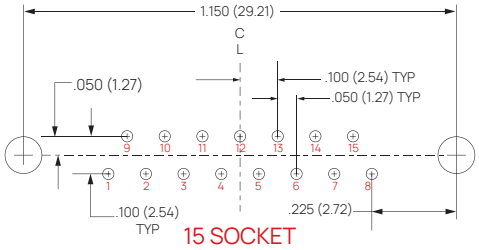

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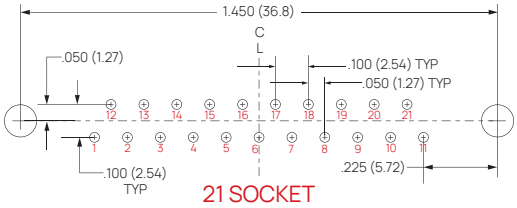

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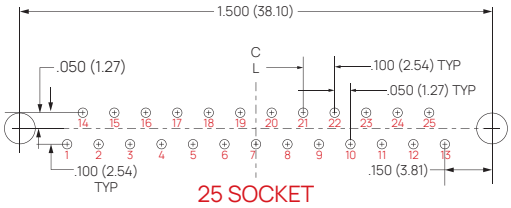

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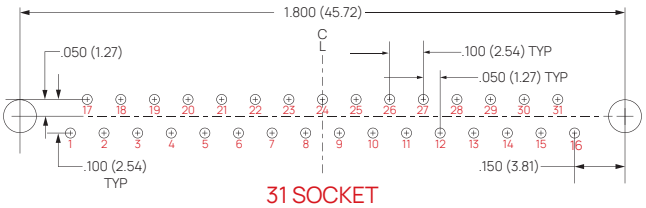

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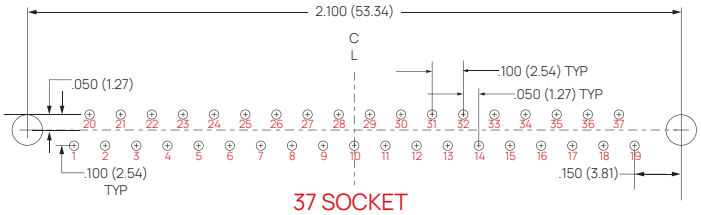

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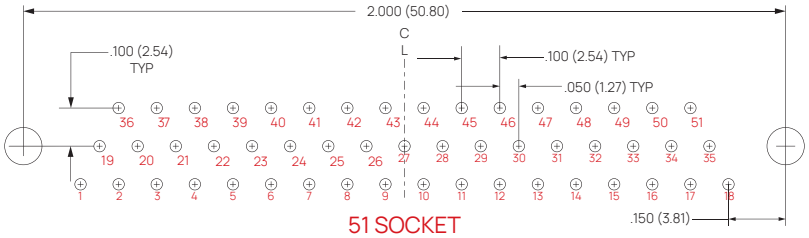

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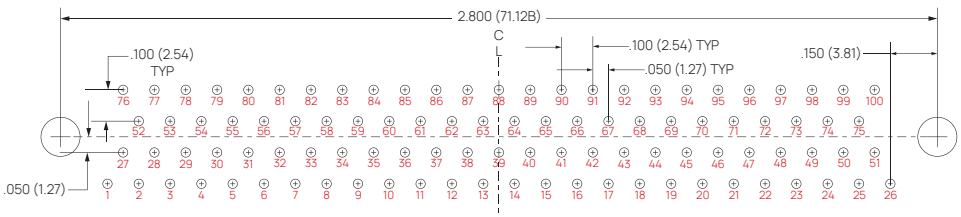


100 SOCKET

STRAIGHT 0.100” BOARD MOUNT

ARMMDSBM

Straight 0.100” Board Mount
Micro-D Connector Series

Designed with a 0.100" (2.54 mm) pitch, this connector facilitates compact and efficient board-to-board connections, optimizing space utilization in high-density applications.

The straight through-hole design ensures secure and reliable attachment to printed circuit boards, accommodating various assembly processes and configurations.

Featuring gold-plated contacts and high-quality materials, this connector offers excellent conductivity and durability, making it suitable for demanding environments in industrial, aerospace, and defense sectors.

ARMMDSBM-

Straight 0.100" Board Mount Micro-D Connector Series

	1.	2.	3.	4.	5.	6.	7.	8.	
Series	Shell Material	Insulator Material	Shell Size	Contact Type	Shell Finish Type	Conductor Plating	Tail Length	Hardware Type 1	Hardware Type 2
ARMMDSBM	- A	P	9	S	1	G	1	- P	B

1 | Shell Material

A: Aluminum

SS: Stainless Steel

2 | Insulator Material

P: PPS or LCP

LCP-30% Glass-Filled Liquid Crystal Polymer

PPS-40% Glass-Filled Polyphenylene Sulfide

3 | Shell Size

9, 15, 21, 25, 31, 37, 51, 69, 100

4 | Contact Type

S: Socket (Female)

P: Pin (Male)

5 | Shell Finish Type

1: Electroless Nickel

2: Cadmium

3: Chem Film

4: Gold

5: Black Anodize

6: Silver

7: Passivated
(Only Stainless Steel)

6 | Conductor Plating

G: Gold Plated Solid Conductor

T: Tin Plated Solid Conductor

D: Flash Gold Plated Solid Conductor

N: Nickel Plated Solid Conductor

7 | Tail Length

1: 0.110" (2.79 mm)

2: 0.140" (3.56 mm)

3: 0.190" (4.83 mm)

X: Non Standard

8 | Hardware Type 1

Jackpost Option	Jackpost for Rear Panel Thickness Option (if requested)
P: Jackpost	**SH1:** 0.8 mm (.031")
Omit for none	**SH2:** 1.2 mm (.047")
	SH3: 1.6 mm (.062")
	SH4: 2 mm (.080")
	SH5: 2.4 mm (.094")
	SH6: 3.2 mm (.125")

8 | Hardware Type 2

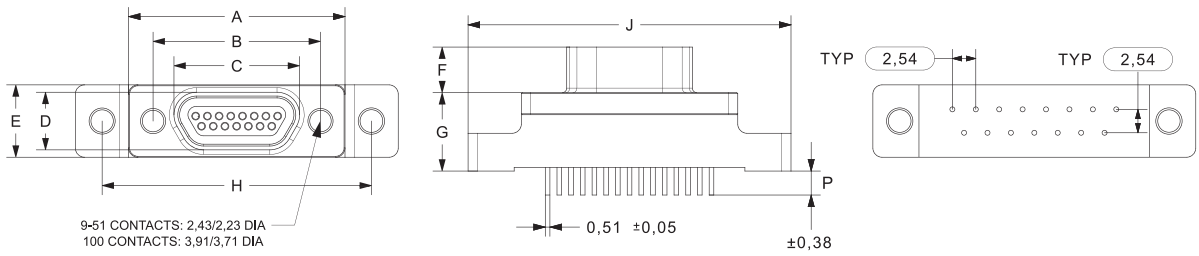
PCB Mounting Hardware Option

B: Thru-Hole

T: Threaded Insert Only

TJ: Threaded Insert w/Jackscrew

"Reference part number for **.172"** non-standard tail length configuration." • **ARMMDSBM-AP9S1GX-PB-.172**



Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.	H Max.	J Max.
9P	19,94	14,35	8,46	4,67	7,87	4,65	9,20	29,27	35,31
9S	19,94	14,35	10,16	6,35	7,87	4,95	9,20	29,21	35,31
15P	23,75	18,16	12,27	4,67	7,87	4,65	9,20	29,21	35,31
15S	23,75	18,16	14,00	6,35	7,87	4,95	9,20	29,21	35,31
21P	27,56	21,97	16,08	4,67	7,87	4,65	9,20	36,8,	40,64
21S	27,56	21,97	17,81	6,35	7,87	4,95	9,20	36,83	40,64
25P	30,01	24,51	18,62	4,67	7,87	4,65	9,20	38,10	44,20
25S	30,01	24,51	20,35	6,35	7,87	4,95	9,20	38,10	44,20
31P	33,91	28,32	22,43	4,67	7,87	4,65	9,20	45,72	51,82
31S	33,91	28,32	24,16	6,35	7,87	4,95	9,20	45,72	51,82
37P	37,72	32,13	26,24	4,67	7,87	4,65	9,20	53,34	59,44
37S	37,72	32,13	27,96	6,35	7,87	4,95	9,20	53,34	59,44
51P	36,45	30,86	24,97	5,79	8,92	4,65	9,20	50,80	57,66
51S	36,45	30,86	26,70	7,52	8,92	4,95	9,20	50,80	57,66
100P	55,12	45,72	35,13	6,86	11,69	4,65	13,97	71,12	82,55
100S	55,12	45,72	36,86	8,46	11,69	4,95	13,97	71,12	82,55

Dimensions given are in mm

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

MS83513/22 thru /27 Micro-D

BS Straight PCB Terminated Connectors

PC Tail Coating

PC tails are 0.51 mm (0.020") diameter and are silver, gold, nickel or tin plated and solder dipped.

PC Tail Spacing

2.54 mm (0.100") between rows.

Threaded Inserts

Inserts are stainless steel.

Intermatability

These connectors are intermateable with all of the metal shell MS83513/22 thru /27 connectors.

	1.	2.	3.	4.
Base Part Number	**Slash Number Shell Size**	**PC Tail Length**	**Shell Finish**	**Hardware Options**
MS83513/	25-A	01	N	N

1 | Slash Number - Shell Size

Plug (Pin Contacts)

22-A: 9 Contacts
22-B: 15 Contacts
22-C: 21 Contacts
22-D: 25 Contacts
22-E: 31 Contacts
22-F: 37 Contacts
22-G: 51 Contacts
22-H: 100 Contacts

Receptacle (Socket Contacts)

25-A: 9 Contacts
25-B: 15 Contacts
25-C: 21 Contacts
25-D: 25 Contacts
25-E: 31 Contacts
25-F: 37 Contacts
25-G: 51 Contacts
27-H: 100 Contacts

2 | PC Tail Length

01: 2.77 mm (0.109")
02: 3.56 mm (0.140")
03: 4.37 mm (0.172")

PC Tail Length ± 0.38 mm (0.015")

3 | Shell Finish

C: Cadmium
A: Electrodeposited Aluminum
N: Electroless Nickel
K: Zinc Nickel
P: Passivated (Only Stainless Steel)

4 | Hardware Options

N: Cadmium
P: Electroless Nickel

Sizes 9-51

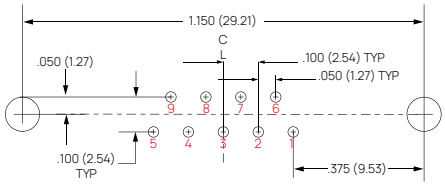
T: Threaded Insert in Board Mount Hole (No Jackposts)
W: Threaded Insert in Board Mount Hole and Jackposts Installed

Shell Size 100 (H)

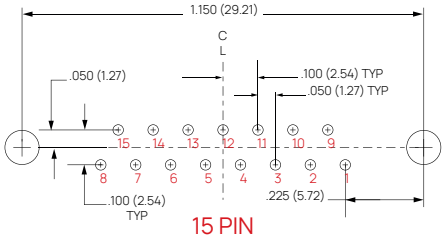
U: #4-40 Threaded Insert
Y: #4-40 Threaded Insert & Jackpost

PCB Layouts

Pin Connectors



9 PIN



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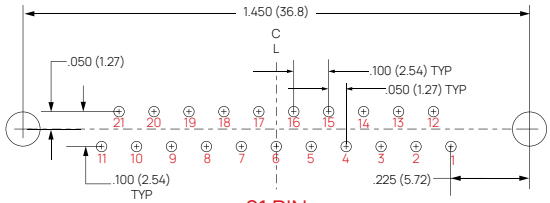

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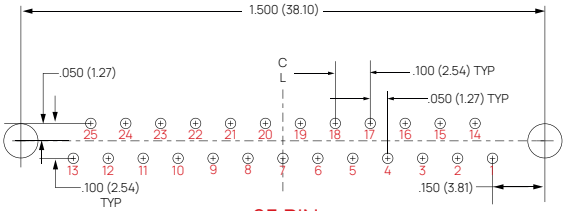

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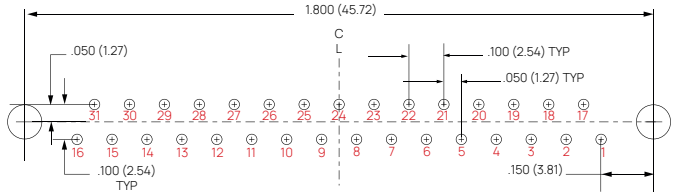

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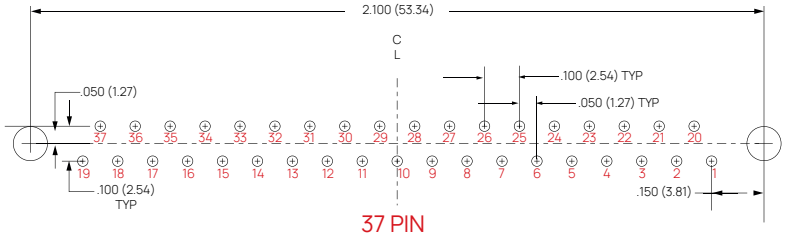

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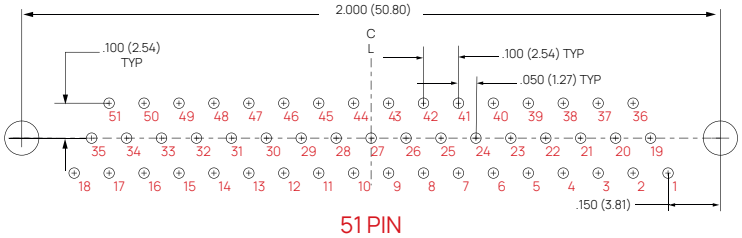
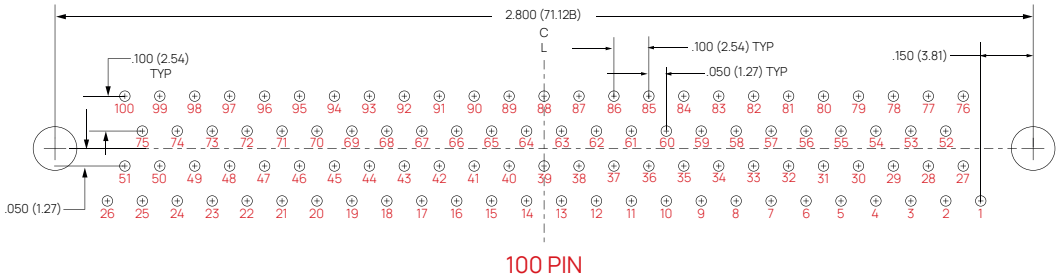


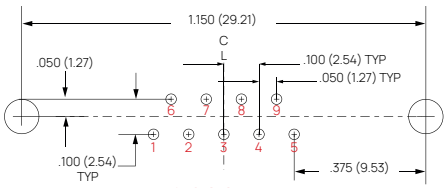
51 PIN



100 PIN

PCB Layouts

Socket Connectors



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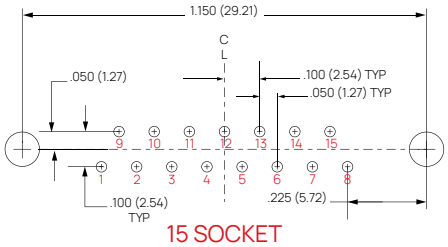

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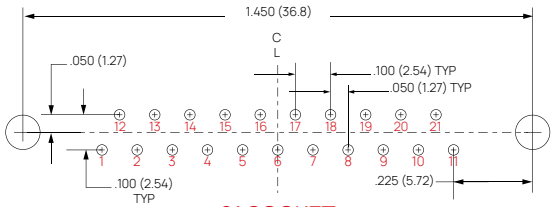

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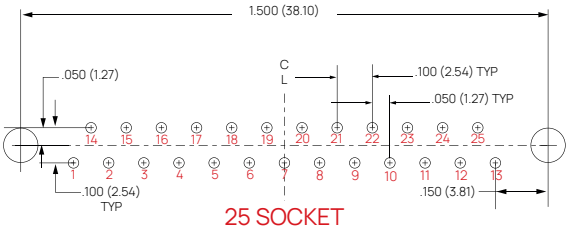

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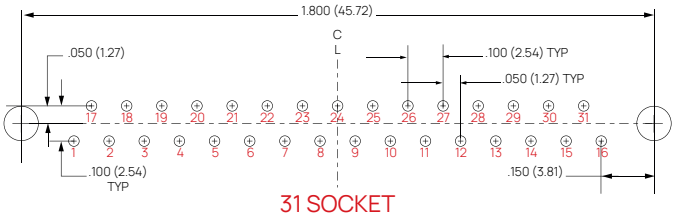

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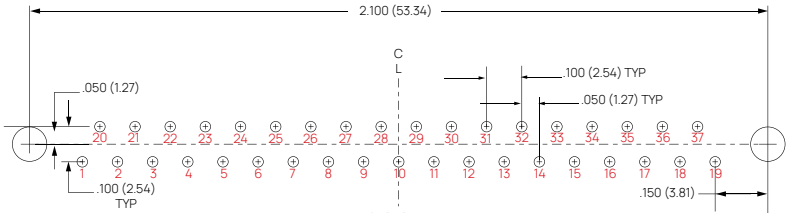

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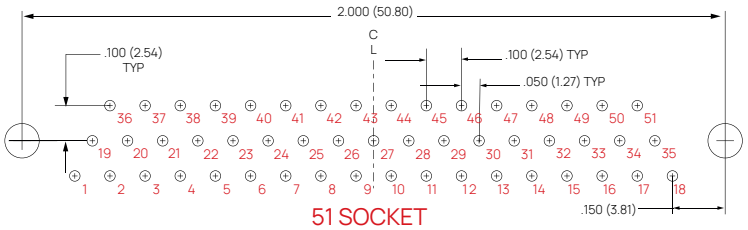
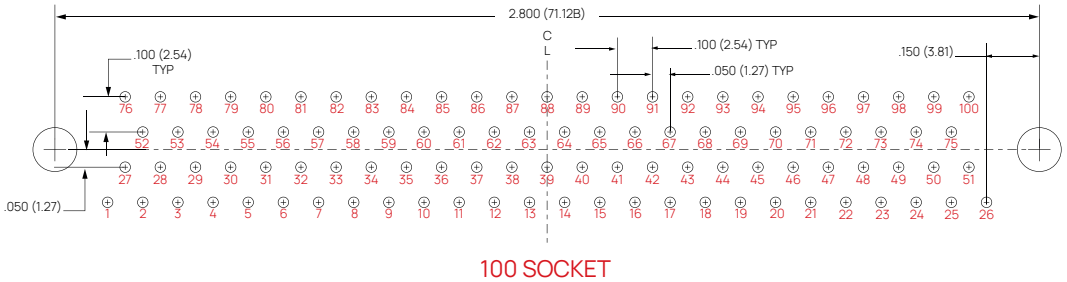


51 SOCKET



100 SOCKET

CONDENSED STRAIGHT 0.075” BOARD MOUNT

ARMMDCSBM

Condensed Straight 0.075” Board Mount
Micro-D Connector Series

Condensed straight configuration reduces PCB space requirements by using tighter pitch and minimized shell dimensions, ideal for designs where board real estate is at a premium.

Thru-hole terminations ensure reliable mechanical strength and solder retention, providing durability under vibration, thermal cycling, and long service life.

Contacts/plated finishes meet MIL-DTL-83513 standard, offering low contact resistance, high insulation resistance, and wide operating temperature range for assurance in demanding applications.

ARMMDCSBM-

Condensed Straight 0.075" Board Mount Micro-D Connector Series

	1.	2.	3.	4.	5.	6.	7.	8.	
Series	Shell Material	Insulator Material	Shell Size	Contact Type	Shell Finish Type	Conductor Plating	Tail Length	Hardware Type 1 (if requested)	Hardware Type 2
ARMMDCSBM	- A	P	9	S	1	G	1	- SH1	B

1 I Shell Material

A: Aluminum
SS: Stainless Steel

2 I Insulator Material

P: PPS or LCP

LCP-30% Glass-Filled Liquid Crystal Polymer

PPS-40% Glass-Filled Polyphenylene Sulfide

3 I Shell Size

9, 15, 21, 25, 31, 37, 51, 69, 100

4 I Contact Type

S: Socket (Female)
P: Pin (Male)

5 I Shell Finish Type

1: Electroless Nickel
2: Cadmium
3: Chem Film
4: Gold
5: Black Anodize
6: Silver
7: Passivated (Only Stainless Steel)
8: Zinc Nickel

6 I Conductor Plating

G: Gold Plated Solid Conductor
T: Tin Plated Solid Conductor
D: Flash Gold Plated Solid Conductor
N: Nickel Plated Solid Conductor

7 I Tail Length · ± 0.015" (0.38mm)

1: 0.110" (2.79 mm)
2: 0.140" (3.56 mm)
3: 0.190" (4.83 mm)
X: Non Standard

8 I Hardware Type 1

Jackpost for Rear Panel Thickness Option (if requested)

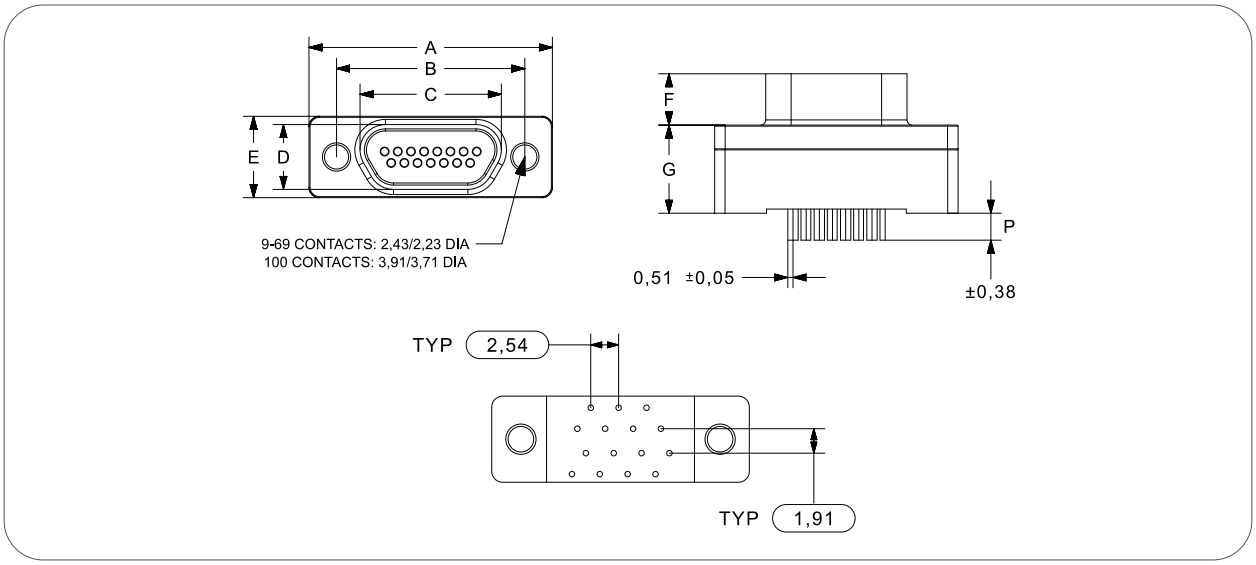
SH1: 0.8 mm (.031")
SH2: 1.2 mm (.047")
SH3: 1.6 mm (.062")
SH4: 2 mm (.080")
SH5: 2.4 mm (.094")
SH6: 3.2 mm (.125")
Omit for none

8 I Hardware Type 2

PCB Mounting Hardware Option

B: Thru-Hole
BP: Thru Hole w/ Jackpost
T: Threaded Insert Only
TP: Threaded Insert w/Jackpost

"Reference part number for **.172"** non-standard tail length configuration." • ARMMDCSBM-AP9S1GX-SH1B-.172



Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.
9P	19,94	14,35	8,46	4,67	7,87	4,65	9,02
9S	19,94	14,35	10,16	6,35	7,87	4,95	9,02
15P	23,75	18,16	12,27	4,67	7,87	4,65	9,02
15S	23,75	18,16	14,00	6,35	7,87	4,95	9,02
21P	27,56	21,97	16,08	4,67	7,87	4,65	9,02
21S	27,56	21,97	17,81	6,35	7,87	4,95	9,02
25P	30,01	24,51	18,62	4,67	7,87	4,65	9,02
25S	30,01	24,51	20,35	6,35	7,87	4,95	9,02
31P	33,91	28,32	22,43	4,67	7,87	4,65	9,02
31S	33,91	28,32	24,16	6,35	7,87	4,95	9,02
37P	37,72	32,13	26,24	4,67	7,87	4,65	9,02
37S	37,72	32,13	27,96	6,35	7,87	4,95	9,02
51P	36,45	30,86	24,97	5,79	8,92	4,65	9,02
51S	36,45	30,86	26,70	7,52	8,92	4,95	9,02
100P	55,12	45,72	35,13	6,86	11,69	4,65	10,93
100S	55,12	45,72	36,86	8,46	11,69	4,95	10,93

Dimensions given are in mm

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

MS83513/28 thru /33 Micro-D

CBS Condensed Straight PCB Terminated Connectors

Space-Saving

PC tail spacing is 1.9 mm (0.075") between rows.

PC Tail Coating

PC tails are silver, gold, nickel or tin plated.

Threaded Inserts

Inserts are stainless steel.

Intermatability

These connectors are intermateable with all of the metal shell MS83513/28 thru /33 connectors.

	1.	2.	3.	4.
Base Part Number	**Slash Number Shell Size**	**PC Tail Length**	**Shell Finish**	**Hardware Options**
MS83513/	31-A	01	N	N

1 I Slash Number - Shell Size

Plug (Pin Contacts)

28-A: 9 Contacts
28-B: 15 Contacts
28-C: 21 Contacts
28-D: 25 Contacts
28-E: 31 Contacts
28-F: 37 Contacts
28-G: 51 Contacts
30-H: 100 Contacts

Receptacle (Socket Contacts)

31-A: 9 Contacts
31-B: 15 Contacts
31-C: 21 Contacts
31-D: 25 Contacts
31-E: 31 Contacts
31-F: 37 Contacts
32-G: 51 Contacts
33-H: 100 Contacts

2 I PC Tail Length

01: 2.77 mm (0.109")
02: 3.56 mm (0.140")
03: 4.37 mm (0.172")

PC Tail Length ± 0.38 mm (0.015")

3 I Shell Finish

C: Cadmium
A: Electrodeposited Aluminum
N: Electroless Nickel
K: Zinc Nickel
P: Passivated (Only Stainless Steel)

4 I Hardware Options

N: No Jackpost
P: Jackpost Installed

Sizes 9-51

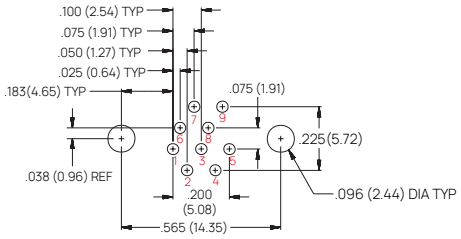
T: Threaded Insert in Board Mount Hole (No Jackposts)
W: Threaded Insert in Board Mount Hole and Jackposts Installed

Shell Size 100 (H)

U: #4-40 Threaded Insert
Y: #4-40 Threaded Insert & Jackpost

PCB Layouts

Pin Connectors



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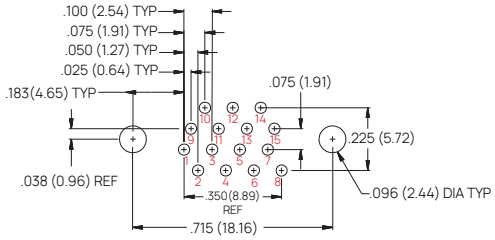

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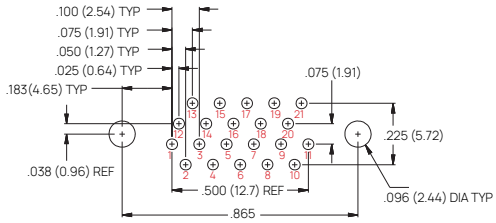

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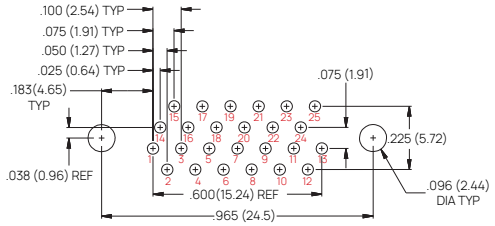

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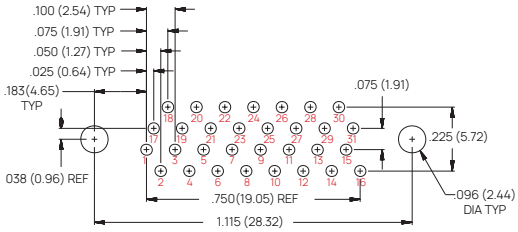

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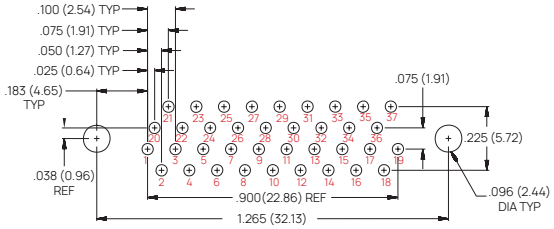

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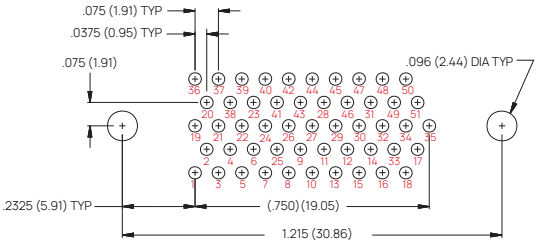

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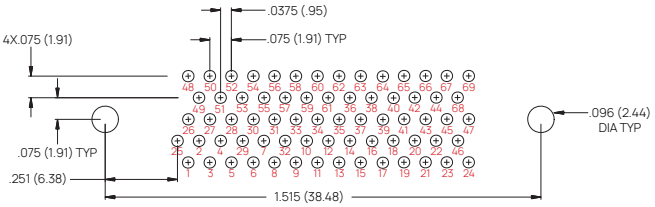

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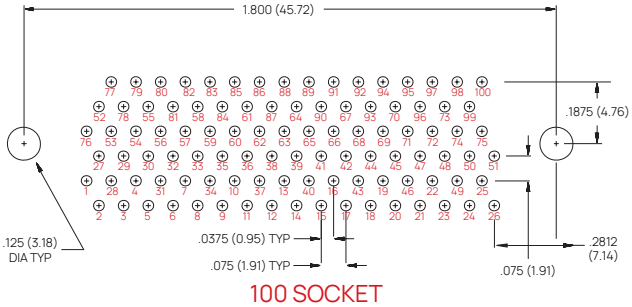

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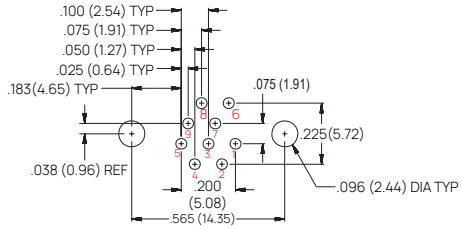
PCB Layouts

Socket Connectors



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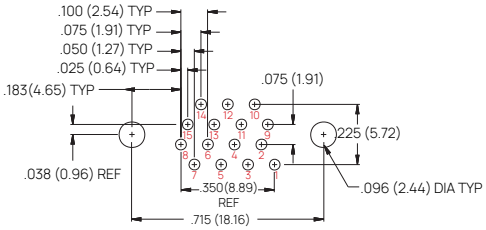

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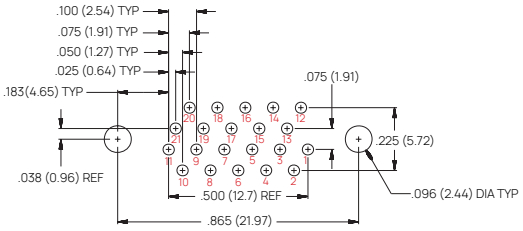

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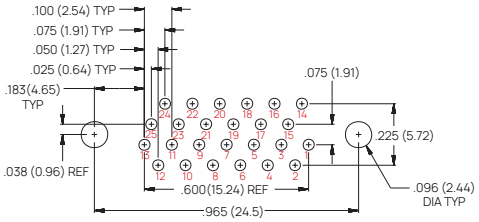

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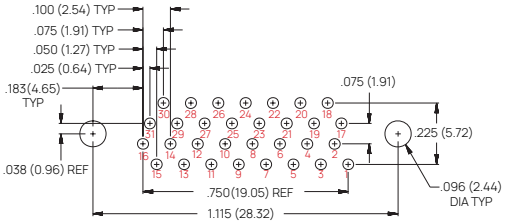

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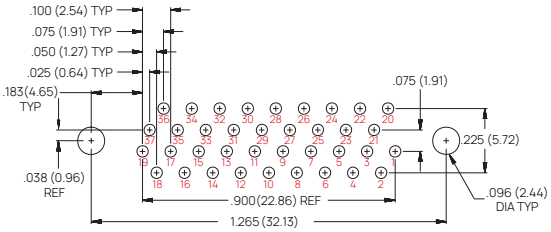

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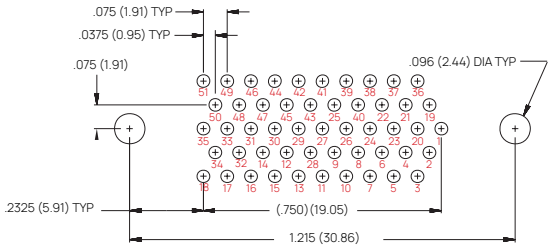

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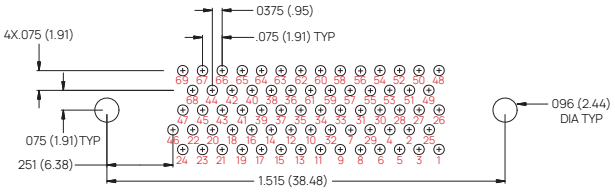

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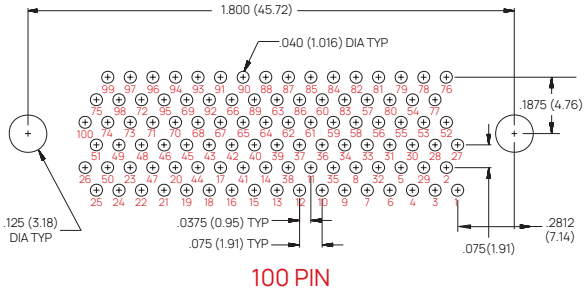


100 PIN

HIGH DENSITY STRAIGHT 0.075” BOARD MOUNT

ARMMDHSBM

High Density Straight 0.075” Board Mount
Micro-D Connector Series

High-Density Interconnects; 0.075" pitch straight design enables maximum contact density, optimizing PCB space for advanced electronic systems.

Through-hole termination provides secure attachment and stable electrical performance, even under vibration and thermal stress.

Superior Electrical Integrity; Gold-plated contacts ensure low contact resistance, durability, and consistent signal integrity across aerospace, defense, and industrial applications.

ARMMDHSBM-

High Density Straight 0.075" Board Mount Micro-D Connector Series

	1.	2.	3.	4.	5.	6.	7.	8.	
Series	Shell Material	Insulator Material	Contact Layout	Contact Type	Shell Finish Type	Conductor Plating	Tail Length	Hardware Type 1 (if requested)	Hardware Type 2
ARMMDHSBM	- A	P	9	S	1	G	1	- SH1	B

1 | Shell Material

A: Aluminum
SS: Stainless Steel

2 | Insulator Material

P: PPS or LCP

LCP-30% Glass-Filled Liquid Crystal Polymer

PPS-40% Glass-Filled Polyphenylene Sulfide

3 | Contact Layout

9, 15, 21, 25, 31, 37, 51, 100

4 | Contact Type

S: Socket (Female)
P: Pin (Male)

5 | Shell Finish Type

1: Electroless Nickel
2: Cadmium
3: Chem Film
4: Gold
5: Black Anodize
6: Silver
7: Passivated (Only Stainless Steel)

6 | Conductor Plating

G: Gold Plated Solid Conductor
T: Tin Plated Solid Conductor
D: Flash Gold Plated Solid Conductor
N: Nickel Plated Solid Conductor

7 | Tail Length

1: 0.110" (2.79 mm)
2: 0.140" (3.56 mm)
3: 0.190" (4.83 mm)
X: Non Standard

8 | Hardware Type 1

Jackpost for Rear Panel Thickness Option (if requested)

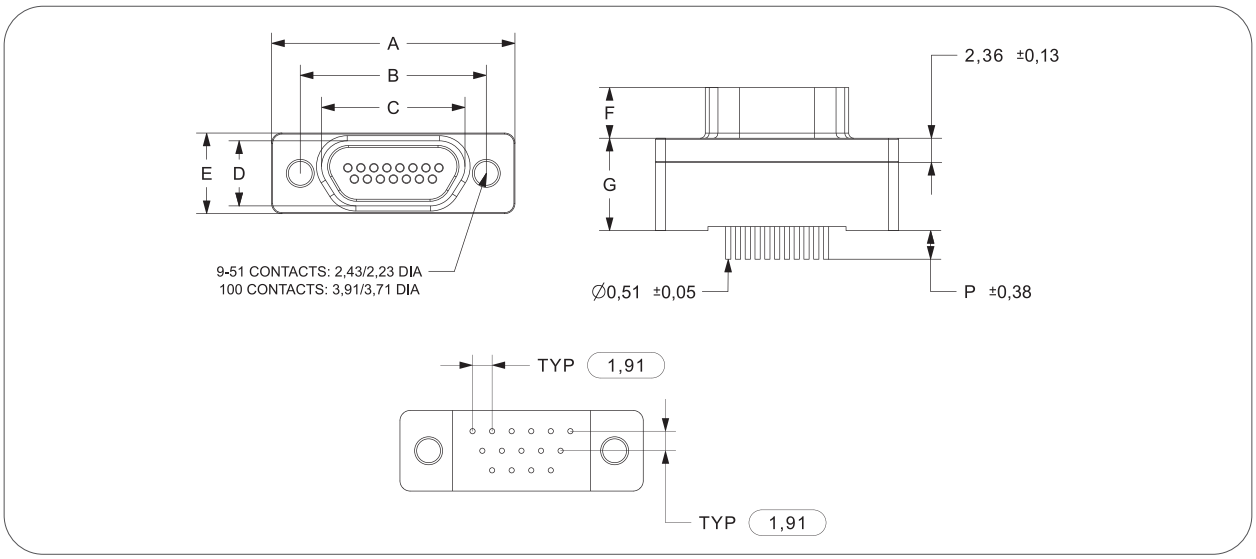
SH1: 0.8 mm (.031")
SH2: 1.2 mm (.047")
SH3: 1.6 mm (.062")
SH4: 2 mm (.080")
SH5: 2.4 mm (.094")
SH6: 3.2 mm (.125")
Omit for none

8 | Hardware Type 2

PCB Mounting Hardware Option

B: Thru-Hole
BP: Thru-Hole w/Jackpost
T: Threaded Insert Only
TP: Threaded Insert w/Jackpost

"Reference part number for **.172"** non-standard tail length configuration." • ARMMDHSBM-AP9S1GX-SH1B-.172



Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.
9P	19,94	14,35	8,46	4,67	7,87	4,65	9,02
9S	19,94	14,35	10,16	6,35	7,87	4,95	9,02
15P	23,75	18,16	12,27	4,67	7,87	4,65	9,02
15S	23,75	18,16	14,00	6,35	7,87	4,95	9,02
21P	27,56	21,97	16,08	4,67	7,87	4,65	9,02
21S	27,56	21,97	17,81	6,35	7,87	4,95	9,02
25P	30,01	24,51	18,62	4,67	7,87	4,65	9,02
25S	30,01	24,51	20,35	6,35	7,87	4,95	9,02
31P	33,91	28,32	22,43	4,67	7,87	4,65	9,02
31S	33,91	28,32	24,16	6,35	7,87	4,95	9,02
37P	37,72	32,13	26,24	4,67	7,87	4,65	9,02
37S	37,72	32,13	27,96	6,35	7,87	4,95	9,02
51P	36,45	30,86	24,97	5,79	8,92	4,65	9,02
51S	36,45	30,86	26,70	7,52	8,92	4,95	9,02
100P	55,12	45,72	35,13	6,86	11,69	4,65	10,93
100S	55,12	45,72	36,86	8,46	11,69	4,95	10,93

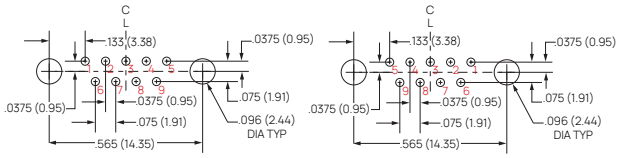
Dimensions given are in mm

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

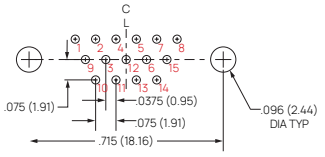
PCB Layouts

Pin - Socket Connectors



9 PIN

9 SOCKET



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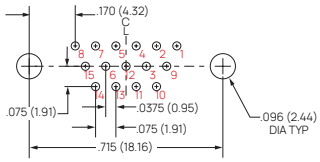

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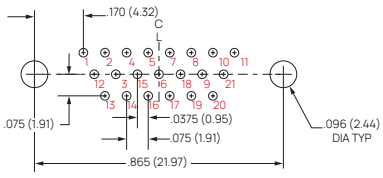

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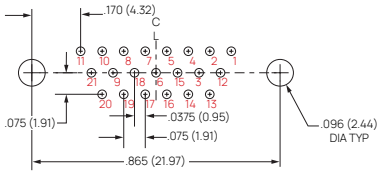

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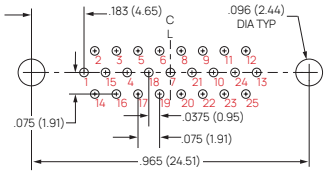

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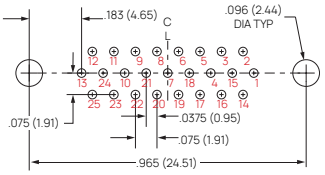

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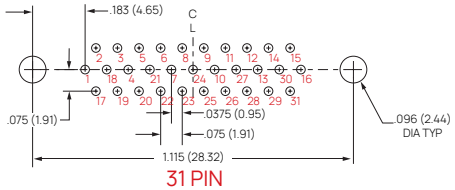

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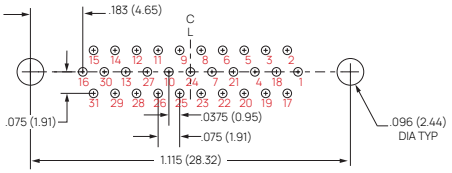

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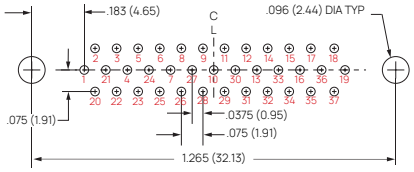

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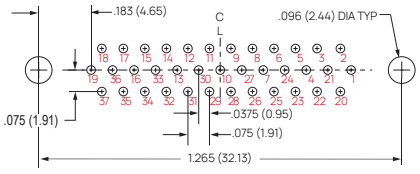

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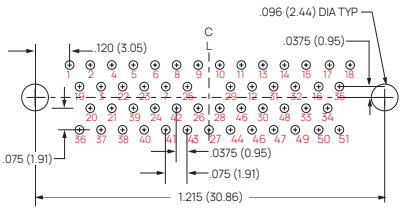
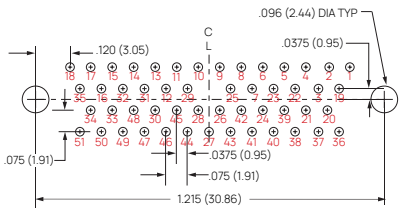


51 PIN



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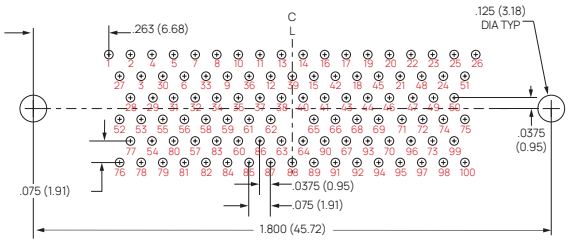

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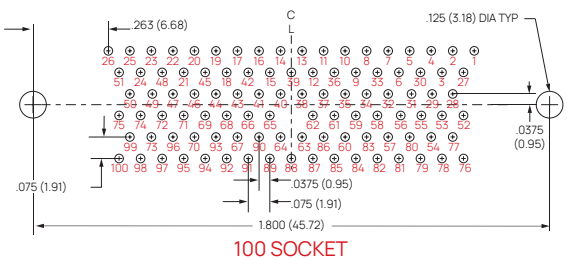


100 SOCKET

HIGH DENSITY COMPACT STRAIGHT 0.075” BOARD

ARMMDHCBS

High Density Compact Straight 0.075” Board
Micro-D Connector Series

High-Density Interconnects; 0.075" pitch straight design enables maximum contact density, optimizing PCB space for advanced electronic systems.

Through-hole termination provides secure attachment and stable electrical performance, even under vibration and thermal stress.

Superior Electrical Integrity; Gold-plated contacts ensure low contact resistance, durability, and consistent signal integrity across aerospace, defense, and industrial applications.

ARMMDHCBS-

High Density Compact Straight 0.075" Board Micro-D Connector Series

	1.	2.	3.	4.	5.	6.	7.	8.
Series	Shell Material	Insulator Material	Contact Layout	Contact Type	Shell Finish Type	Conductor Plating	Tail Length	Hardware Type
ARMMDHCBS	- A	P	9	S	1	G	1	- B

1 | Shell Material

A: Aluminum

SS: Stainless Steel

2 | Insulator Material

P: PPS or LCP

LCP-30% Glass-Filled Liquid Crystal Polymer

PPS-40% Glass-Filled Polyphenylene Sulfide

3 | Contact Layout

9, 15, 21, 25, 31, 37, 51, 100

4 | Contact Type

S: Socket (Female)

P: Pin (Male)

5 | Shell Finish Type

1: Electroless Nickel

2: Cadmium

3: Chem Film

4: Gold

5: Black Anodize

6: Silver

7: Passivated (Only Stainless Steel)

6 | Conductor Plating

G: Gold Plated Solid Conductor

T: Tin Plated Solid Conductor

D: Flash Gold Plated Solid Conductor

N: Nickel Plated Solid Conductor

7 | Tail Length

1: 0.110" (2.79 mm)

2: 0.140" (3.56 mm)

3: 0.190" (4.83 mm)

X: Non Standard

8 | Hardware Type

B: Thru-Hole • **P:** Jackpost • **HJ:** Hex Head Jackscrew

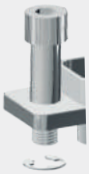
HJ1: Hex Head Jackscrew Extended

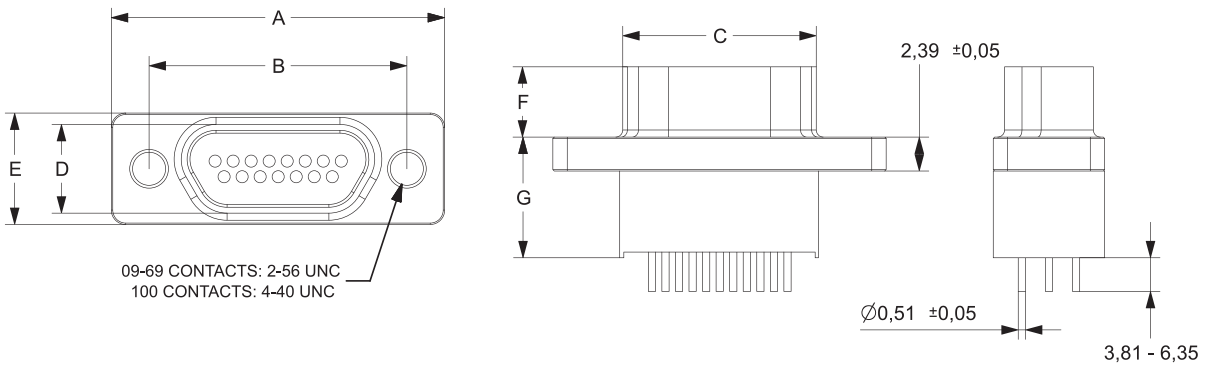
SJ: Slot Head Jackscrew

SJ1: Slot Head Jackscrew Extended

T: Threaded Insert

"Reference part number for **.172"** non-standard tail length configuration." • ARMMDHCBS-AP9S1GX-P-.172

B	P	HJ	HJ1	SJ	SJ1	T
						
Thru-Hole, No Mounting Hardware	Jackpost	Hex Head Jackscrew	Hex Head Jackscrew Extended	Slot Head Jackscrew	Slot Head Jackscrew Extended	Threaded Insert



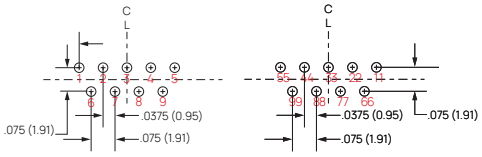
Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.
9P	19,94	14,35	8,46	4,67	7,87	4,65	9,02
9S	19,94	14,35	10,16	6,35	7,87	4,95	9,02
15P	23,75	18,16	12,27	4,67	7,87	4,65	9,02
15S	23,75	18,16	14	6,35	7,87	4,95	9,02
21P	27,56	21,97	16,08	4,67	7,87	4,65	9,02
21S	27,56	21,97	17,81	6,35	7,87	4,95	9,02
25P	30,01	24,51	18,62	4,67	7,87	4,65	9,02
25S	30,01	24,51	20,35	6,35	7,87	4,95	9,02
31P	33,91	28,32	22,43	4,67	7,87	4,65	9,02
31S	33,91	28,32	24,16	6,35	7,87	4,95	9,02
37P	37,72	32,13	26,24	4,67	7,87	4,65	9,02
37S	37,72	32,13	27,96	6,35	7,87	4,95	9,02
51P	36,45	30,86	24,97	5,79	8,92	4,65	9,02
51S	36,45	30,86	26,7	7,52	8,92	4,95	9,02
100P	55,12	45,72	35,13	6,86	10,01	4,65	10,92
100S	55,12	45,72	36,86	8,46	10,01	4,95	9,92

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

PCB Layouts

Pin - Socket Connectors



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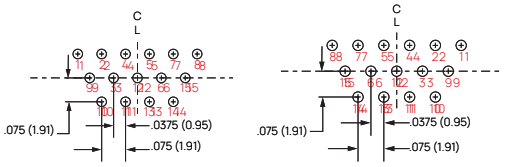

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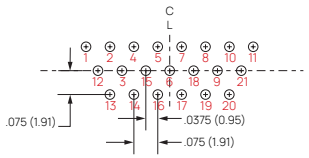

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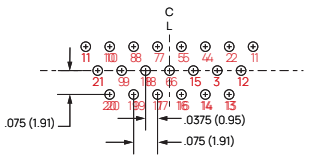

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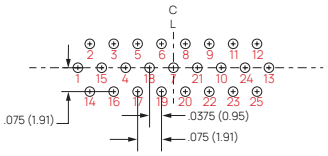

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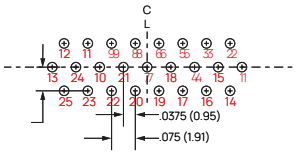

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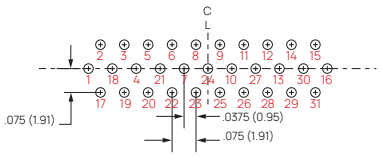

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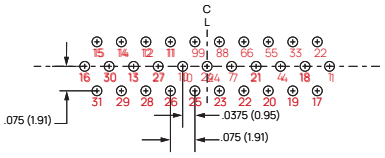

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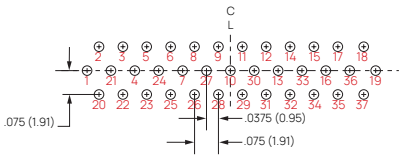

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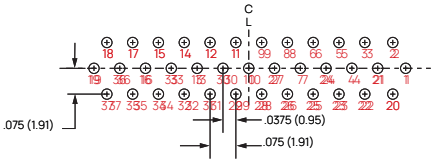

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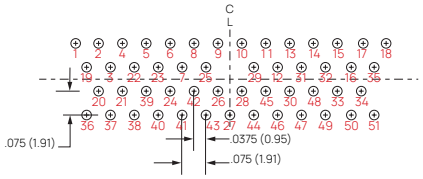

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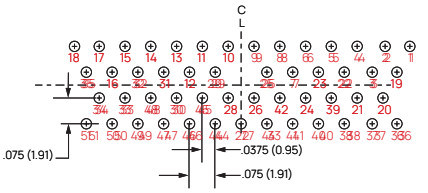

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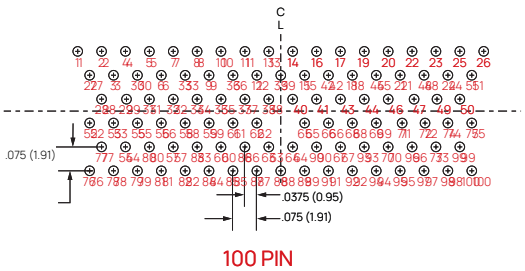

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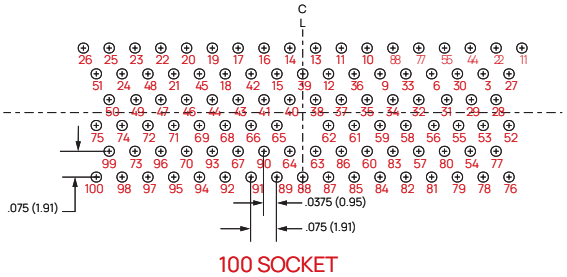


100 SOCKET

HIGH DENSITY RIGHT ANGLE 0.075” BOARD MOUNT

ARMMDHRBM

High Density Right Angle 0.075” Board Mount
Micro-D Connector Series

High-Density Interconnects; 0.075" pitch straight design enables maximum contact density, optimizing PCB space for advanced electronic systems.

Through-hole termination provides secure attachment and stable electrical performance, even under vibration and thermal stress.

Superior Electrical Integrity; Gold-plated contacts ensure low contact resistance, durability, and consistent signal integrity across aerospace, defense, and industrial applications.

ARMMDHRBM-

High Density Right Angle 0.075" Board Mount Micro-D Connector Series

	1.	2.	3.	4.	5.	6.	7.	8.	
Series	Shell Material	Insulator Material	Contact Layout	Contact Type	Shell Finish Type	Conductor Plating	Tail Length	Hardware Type 1	Hardware Type 2
ARMMDHRBM	- A	P	9	S	1	G	1	- SH1	B

1 I Shell Material

A: Aluminum

SS: Stainless Steel

2 I Insulator Material

P: PPS or LCP

LCP-30% Glass-Filled Liquid Crystal Polymer

PPS-40% Glass-Filled Polyphenylene Sulfide

3 I Contact Layout

9, 15, 21, 25, 31, 37, 51, 100

4 I Contact Type

S: Socket (Female)

P: Pin (Male)

5 I Shell Finish Type

1: Electroless Nickel

2: Cadmium

3: Chem Film

4: Gold

5: Black Anodize

6: Silver

7: Passivated
(Only Stainless Steel)

6 I Conductor Plating

G: Gold Plated Solid Conductor

T: Tin Plated Solid Conductor

D: Flash Gold Plated Solid Conductor

N: Nickel Plated Solid Conductor

7 I Tail Length

1: 0.110" (2.79 mm)

2: 0.140" (3.56 mm)

3: 0.190" (4.83 mm)

X: Non Standard

8 I Hardware Type 1

Jackpost Option	Jackpost for Rear Panel Thickness Option (if requested)
P: Jackpost	**SH1:** 0.8 mm (.031")
Omit for none	**SH2:** 1.2 mm (.047")
	SH3: 1.6 mm (.062")
	SH4: 2 mm (.080")
	SH5: 2.4 mm (.094")
	SH6: 3.2 mm (.125")

8 I Hardware Type 2

PCB Mounting Hardware Option

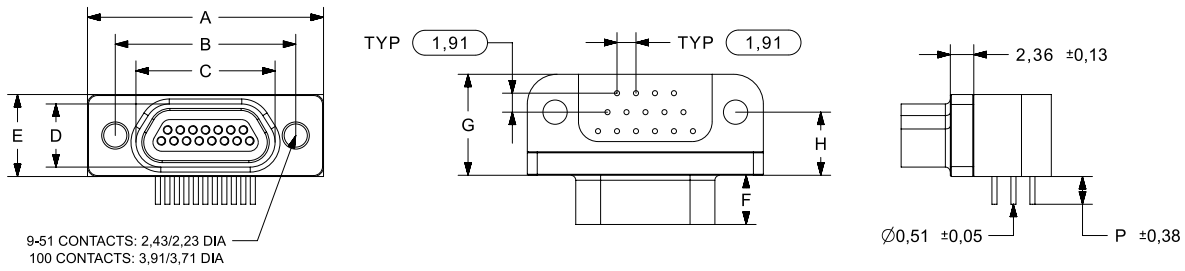
B: Thru-Hole

T: Threaded Insert Only

TJ: Threaded Insert w/Jackscrew

"Reference part number for **.172"** non-standard tail length configuration." • **ARMMDHRBM-AP9S1GX-PB-.172**

B	P	HJ	HJ1	SJ	SJ1	T
Thru-Hole, No Mounting Hardware	Jackpost	Hex Head Jackscrew	Hex Head Jackscrew Extended	Slot Head Jackscrew	Slot Head Jackscrew Extended	Threaded Insert



Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.	H Max.
9P	19,94	14,35	8,46	4,67	8,25	4,65	10,16	6,35
9S	19,94	14,35	10,16	6,35	8,25	4,95	10,16	6,35
15P	23,75	18,16	12,27	4,67	8,25	4,65	10,16	6,35
15S	23,75	18,16	14,00	6,35	8,25	4,95	10,16	6,35
21P	27,56	21,97	16,08	4,67	8,25	4,65	10,16	6,35
21S	27,56	21,97	17,81	6,35	8,25	4,95	10,16	6,35
25P	30,01	24,51	18,62	4,67	8,25	4,65	10,16	6,35
25S	30,01	24,51	20,35	6,35	8,25	4,95	10,16	6,35
31P	33,91	28,32	22,43	4,67	8,25	4,65	10,16	6,35
31S	33,91	28,32	24,16	6,35	8,25	4,95	10,16	6,35
37P	37,72	32,13	26,24	4,67	8,25	4,65	10,16	6,35
37S	37,72	32,13	27,96	6,35	8,25	4,95	10,16	6,35
51P	36,45	30,86	24,97	5,79	9,14	4,65	12,45	7,62
51S	36,45	30,86	26,70	7,52	9,14	4,95	12,45	7,62
100P	55,12	45,72	35,13	6,86	10,67	4,65	16,76	10,16
100S	55,12	45,72	36,86	8,46	10,67	4,95	16,76	10,16

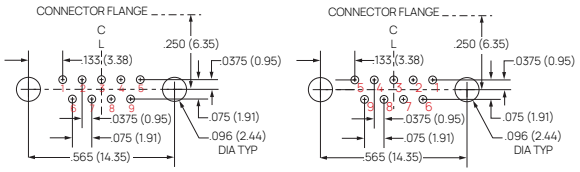
Dimensions given are in mm

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

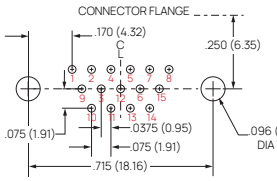
PCB Layouts

Pin - Socket Connectors



9 PIN

9 SOCKET



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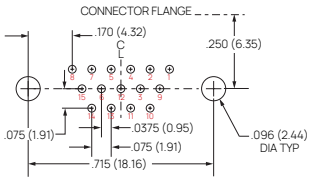

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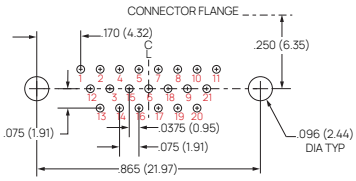
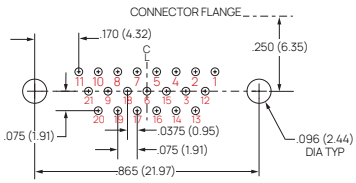


21 PIN



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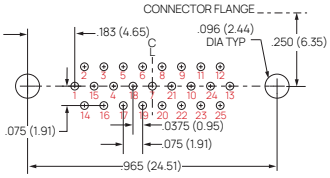

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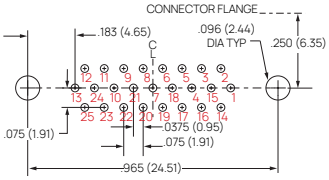

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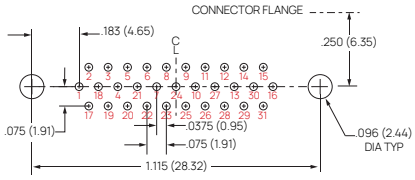

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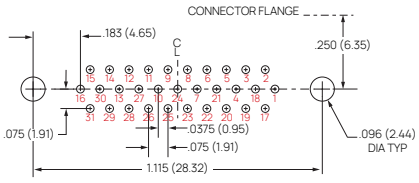

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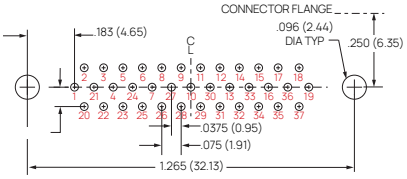

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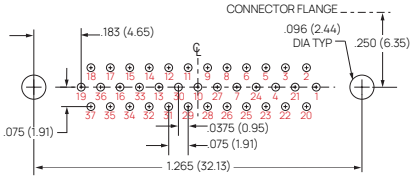

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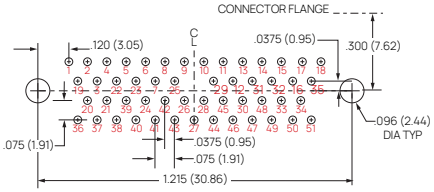

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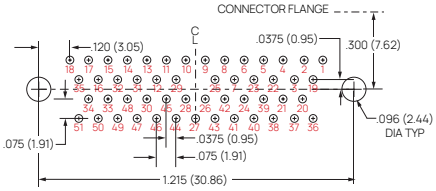

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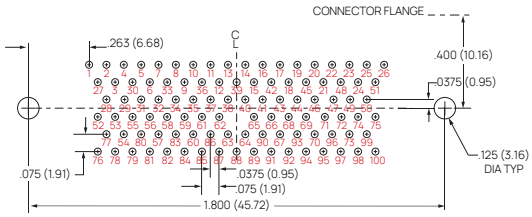
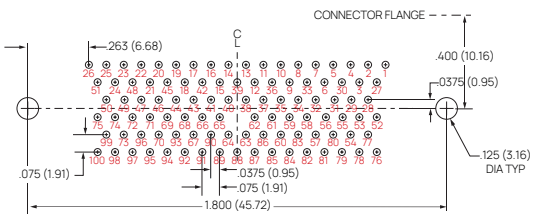


100 PIN



100 SOCKET

REAR PANEL MOUNT SOLDER CUP

ARMMDRPSC

Rear Panel Mount Solder Cup
Micro-D Connector Series

Designed for rear-panel mounting, providing a clean front-panel appearance and reliable mechanical retention.

Solder cup contacts allow easy wire termination with excellent conductivity and long-term stability.

Metal shell construction and gold-plated contacts ensure durability, low contact resistance, and consistent performance in aerospace, defense, and industrial applications.

ARMMDRPSC-

Rear Panel Mount Solder Cup Micro-D Connector Series

	1.	2.	3.	4.	5.	6.	7.
Series	Shell Material	Insulator Material	Contact Layout	Contact Type	Shell Finish Type	Hardware Type	Option
ARMMDRPSC	- A	P	9	S	1	- SH1	C

1 | Shell Material

A: Aluminum

SS: Stainless Steel

2 | Insulator Material

P: PPS or LCP

LCP-30% Glass-Filled Liquid Crystal Polymer

PPS-40% Glass-Filled Polyphenylene Sulfide

3 | Contact Layout

9, 15, 21, 25, 31, 37, 51, 69, 100

4 | Contact Type

S: Socket (Female)

P: Pin (Male)

5 | Shell Finish Type

1: Electroless Nickel

2: Cadmium

3: Chem Film

4: Gold

5: Black Anodize

6: Silver

7: Passivated (Only Stainless Steel)

8: Zinc Nickel

6 | Hardware Type

Jackpost for Rear Panel Thickness Option

SH1: 0.8 mm (.031")

SH2: 1.2 mm (.047")

SH3: 1.6 mm (.062")

SH4: 2 mm (.080")

SH5: 2.4 mm (.094")

SH6: 3.2 mm (.125")

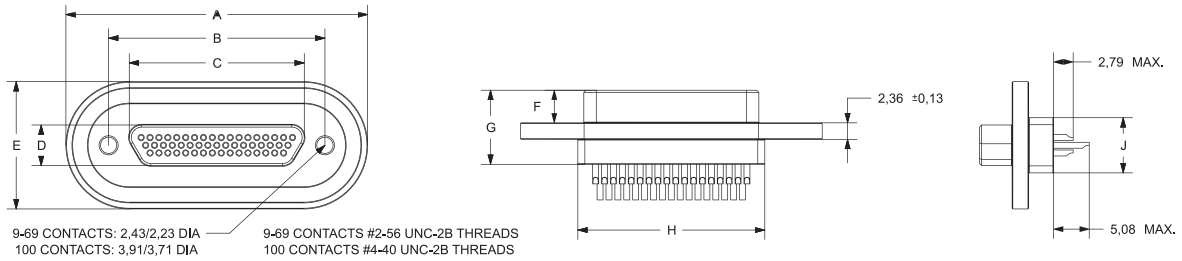
Omit for none

7 | Option

C: Conductive O-Ring

O: O-Ring

G: EMI Gold Spring Only with Plug (Male)



Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.	H Max.	J Max.
9P	26,04	14,35	8,46	4,67	17,14	4,65	10,57	10,16	6,86
9S	26,04	14,35	10,16	6,35	17,14	4,95	10,90	10,16	6,86
15P	31,11	18,16	12,27	4,67	17,14	4,65	10,57	13,97	6,86
15S	31,11	18,16	14	6,35	17,14	4,95	10,90	13,97	6,86
21P	33,66	21,97	16,08	4,67	17,14	4,65	10,57	17,78	6,86
21S	33,66	21,97	17,81	6,35	17,14	4,95	10,90	17,78	6,86
25P	36,2	24,51	18,62	4,67	17,14	4,65	10,57	20,32	6,86
25S	36,2	24,51	20,35	6,35	17,14	4,95	10,90	20,32	6,86
31P	39,24	28,32	22,43	4,67	17,14	4,65	10,57	24,13	6,86
31S	39,24	28,32	24,16	6,35	17,14	4,95	10,90	24,13	6,86
37P	43,82	32,13	26,24	4,67	17,14	4,65	10,57	27,94	6,86
37S	43,82	32,13	27,96	6,35	17,14	4,95	10,90	27,94	6,86
51-2P	56,24	41,02	35,15	4,67	18,16	4,65	10,57	36,83	6,86
51-2S	56,24	41,02	36,83	6,35	18,16	4,95	10,90	36,83	6,86
51P	43,05	30,86	24,97	5,79	18,16	4,65	10,57	26,67	7,87
51S	43,05	30,86	26,7	7,52	18,16	4,95	10,90	26,67	7,87
69P	50,67	38,48	32,61	5,79	18,16	4,65	10,57	34,29	7,87
69S	50,67	38,48	34,29	7,52	18,16	4,95	10,90	34,29	7,87
100P	55,12	45,72	35,13	6,86	19,43	4,65	10,57	36,63	9,14
100S	55,12	45,72	36,86	8,46	19,43	4,95	10,90	36,63	9,14

Dimensions given are in mm

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

PRE-WIRED REAR PANEL MOUNT

ARMMDRPPW

Pre-Wired Rear Panel Mount
Micro-D Connector Series

Pre-attached wires enable fast rear-panel mounting, reducing assembly time and simplifying installation.

Pre-wired terminations ensure consistent conductivity and long-term performance.

Gold-plated contacts and robust construction provide stability and reliable operation in aerospace, defense, and industrial applications.

ARMMDRPPW-

Pre-Wired Rear Panel Mount Micro-D Connector Series

	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
Series	Shell Material	Insulator Material	Contact Layout	Contact Type	Shell Finish Type	Wire Gage	Wire Standard	Colour Code	Wire Length	Hardware Type	Option
ARMMDRPPW	- A	P	9	S	1	4	K	1	18	- SH1	C

1 I Shell Material

A: Aluminum
SS: Stainless Steel

2 I Insulator Material

P: PPS or LCP

LCP-30% Glass-Filled Liquid Crystal Polymer

PPS-40% Glass-Filled Polyphenylene Sulfide

3 I Contact Layout

9, 15, 21, 25, 31, 37, 51, 69, 100

4 I Contact Type

S: Socket (Female)
P: Pin (Male)

5 I Shell Finish Type

1: Electroless Nickel
2: Cadmium
3: Chem Film
4: Gold
5: Black Anodize
6: Silver
7: Passivated (Only Stainless Steel)
8: Zinc Nickel

6 I Wire Gage

4: 24 • **6:** 26 • **8:** 28 • **0:** 30

7 I Wire Standard

K: M22759/11
E: NEMA HP3 (M16878/4)
L: M22759/33

8 I Colour Code

1: 10 Colour Repeat
2: Color coded per MIL-STD-681, system
3: All White
4: All Yellow

9 I Wire Length

18: 18 inches
36: 36 inches
24: 24 inches
X: Non Standard Length

10 I Hardware Type

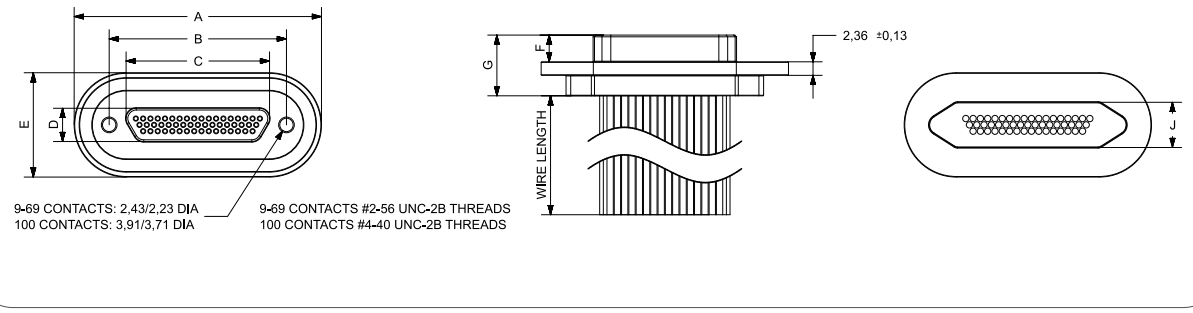
Jackpost for Rear Panel Thickness Option

SH1: 0.8 mm (.031")
SH2: 1.2 mm (.047")
SH3: 1.6 mm (.062")
SH4: 2 mm (.080")
SH5: 2.4 mm (.094")
SH6: 3.2 mm (.125")
Omit for none

11 I Option

C: Conductive O-Ring
O: O-Ring
G: EMI Gold Spring Only with Plug (Male)

"Reference part number for **72"** non-standard wire length configuration." • **ARMMDRPPW–AP9S14K1X-SH1C-72**



Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.	H Max.	J Max.
9P	26,04	14,35	8,46	4,67	17,14	4,65	10,57	10,16	6,86
9S	26,04	14,35	10,16	6,35	17,14	4,95	10,90	10,16	6,86
15P	31,11	18,16	12,27	4,67	17,14	4,65	10,57	13,97	6,86
15S	31,11	18,16	14	6,35	17,14	4,95	10,90	13,97	6,86
21P	33,66	21,97	16,08	4,67	17,14	4,65	10,57	17,78	6,86
21S	33,66	21,97	17,81	6,35	17,14	4,95	10,90	17,78	6,86
25P	36,2	24,51	18,62	4,67	17,14	4,65	10,57	20,32	6,86
25S	36,2	24,51	20,35	6,35	17,14	4,95	10,90	20,32	6,86
31P	39,24	28,32	22,43	4,67	17,14	4,65	10,57	24,13	6,86
31S	39,24	28,32	24,16	6,35	17,14	4,95	10,90	24,13	6,86
37P	43,82	32,13	26,24	4,67	17,14	4,65	10,57	27,94	6,86
37S	43,82	32,13	27,96	6,35	17,14	4,95	10,90	27,94	6,86
51-2P	56,24	41,02	35,15	4,67	18,16	4,65	10,57	36,83	6,86
51-2S	56,24	41,02	36,83	6,35	18,16	4,95	10,90	36,83	6,86
51P	43,05	30,86	24,97	5,79	18,16	4,65	10,57	26,67	7,87
51S	43,05	30,86	26,7	7,52	18,16	4,95	10,90	26,67	7,87
69P	50,67	38,48	32,61	5,79	18,16	4,65	10,57	34,29	7,87
69S	50,67	38,48	34,29	7,52	18,16	4,95	10,90	34,29	7,87
100P	55,12	45,72	35,13	6,86	19,43	4,65	10,57	36,63	9,14
100S	55,12	45,72	36,86	8,46	19,43	4,95	10,90	36,63	9,14

Dimensions given are in mm

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

REAR PANEL MOUNT INTEGRAL BACKSHELL

ARMMDRPIB

Rear Panel Mount Integral Backshell
Micro-D Connector Series

Secure Panel Integration; Designed for rear-panel mounting with an integral backshell, providing a clean front-panel appearance and strong mechanical retention.

Enhanced Cable Protection; Integral backshell shields cables from strain, mechanical stress, and environmental factors, ensuring long-term reliability.

Metal shell construction and gold-plated contacts deliver durability, low contact resistance, and consistent performance in aerospace, defense, and industrial applications.

ARMMDRPIB-

Rear Panel Mount Integral Backshell Micro-D Connector Series

	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
Series	Shell Material	Insulator Material	Contact Layout	Contact Type	Shell Finish Type	Wire Gage	Wire Standard	Colour Code	Wire Length	Hardware Type	Option
ARMMDRPIB	- A	P	9	S	1	4	K	1	18	- SH1	C

1 I Shell Material

A: Aluminum
SS: Stainless Steel

2 I Insulator Material

P: PPS or LCP

LCP-30% Glass-Filled Liquid Crystal Polymer

PPS-40% Glass-Filled Polyphenylene Sulfide

3 I Contact Layout

9, 15, 21, 25, 31, 37, 51, 69, 100

4 I Contact Type

S: Socket (Female)
P: Pin (Male)

5 I Shell Finish Type

1: Electroless Nickel
2: Cadmium
3: Chem Film
4: Gold
5: Black Anodize
6: Silver
7: Passivated (Only Stainless Steel)

6 I Wire Gage

4: 24 • **6:** 26 • **8:** 28 • **0:** 30

7 I Wire Standard

K: M22759/11
E: NEMA HP3 (M16878/4)
L: M22759/33

8 I Colour Code

1: 10 Colour Repeat
2: Color coded per MIL-STD-681, system
3: All White
4: All Yellow

9 I Wire Length

18: 18 inches
36: 36 inches
24: 24 inches
X: Non Standard Length

10 I Hardware Type

Jackpost for Rear Panel Thickness Option

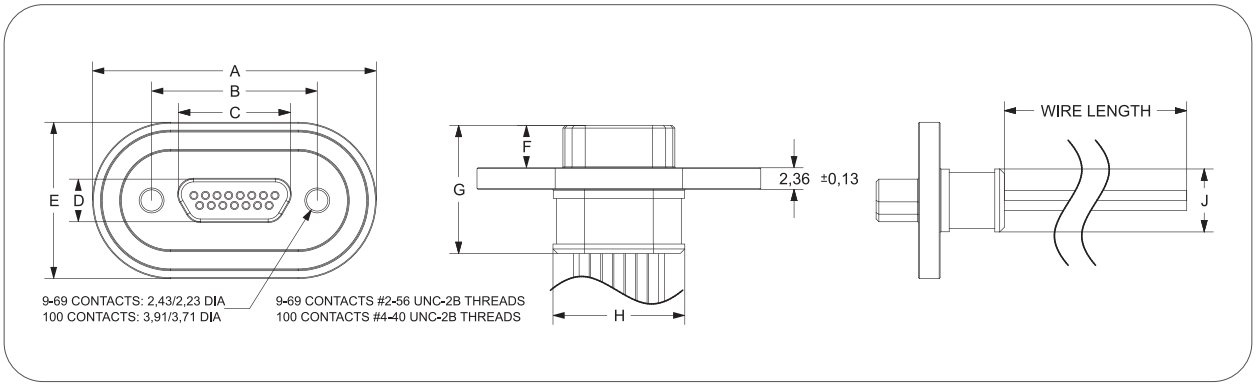
SH1: 0.8 mm (.031")
SH2: 1.2 mm (.047")
SH3: 1.6 mm (.062")
SH4: 2 mm (.080")
SH5: 2.4 mm (.094")
SH6: 3.2 mm (.125")
Omit for none

11 I Option

C: Conductive O-Ring
O: O-Ring
G: EMI Gold Spring Only with Plug (Plug)

"Reference part number for **72"** non-standard wire length configuration." • ARMMDRPIB-AP9S14K1X-SH1C-72

ARMMDRPIB



Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.	H Max.	J Max.
9P	26,04	14,35	8,46	4,67	17,14	4,65	14,05	10,90	6,90
9S	26,04	14,35	10,16	6,35	17,14	4,95	14,35	10,90	6,90
15P	31,11	18,16	12,27	4,67	17,14	4,65	14,05	14,45	6,90
15S	31,11	18,16	14,00	6,35	17,14	4,95	14,35	14,45	6,90
21P	33,66	21,97	16,08	4,67	17,14	4,65	14,05	17,80	6,90
21S	33,66	21,97	17,81	6,35	17,14	4,95	14,35	17,80	6,90
25P	36,20	24,51	18,62	4,67	17,14	4,65	14,05	20,80	6,90
25S	36,20	24,51	20,35	6,35	17,14	4,95	14,35	20,80	6,90
31P	39,24	28,32	22,43	4,67	17,14	4,65	14,05	23,90	6,90
31S	39,24	28,32	24,16	6,35	17,14	4,95	14,35	23,90	6,90
37P	43,82	32,13	26,24	4,67	17,14	4,65	14,05	28,40	6,90
37S	43,82	32,13	27,96	6,35	17,14	4,95	14,35	28,40	6,90
51-2P	56,24	41,02	35,15	4,67	17,14	4,65	14,05	37,30	6,90
51-2S	56,24	41,02	36,83	6,35	17,14	4,95	14,35	37,30	6,90
51P	43,05	30,86	24,97	5,79	18,16	4,65	14,05	27,20	7,90
51S	43,05	30,86	26,70	7,52	18,16	4,95	14,35	27,20	7,90
69P	50,67	38,48	32,61	5,79	18,16	4,65	14,05	34,80	7,90
69S	50,67	38,48	34,29	7,52	18,16	4,95	14,35	34,80	7,90
100P	60,33	45,72	35,13	6,86	19,43	4,65	14,05	37,25	9,95
100S	60,33	45,72	36,86	8,46	19,43	4,95	14,35	37,25	9,95

Dimensions given are in mm

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

REAR PANEL MOUNT STRAIGHT BOARD

ARMMDRPBS

Rear Panel Mount Straight Board
Micro-D Connector Series

Secure Panel Integration; Designed for rear-panel mounting, providing a clean front-panel appearance and reliable mechanical retention.

Straight board design ensures secure and stable soldering to the PCB for consistent electrical performance.

ARMMDRPBS-

Rear Panel Mount Straight Board Micro-D Connector Series

	1.	2.	3.	4.	5.	6.	7.	8.	9.
Series	Shell Material	Insulator Material	Contact Layout	Contact Type	Shell Finish Type	Conductor Plating	Tail Length	Hardware Type	Option
ARMMDRPBS	- A	P	9	S	1	G	1	- SH1	C

1 | Shell Material

A: Aluminum

SS: Stainless Steel

2 | Insulator Material

P: PPS or LCP

LCP-30% Glass-Filled Liquid Crystal Polymer

PPS-40% Glass-Filled Polyphenylene Sulfide

3 | Contact Layout

9, 15, 21, 25, 31, 37, 51, 69, 100

4 | Contact Type

S: Socket (Female)

P: Pin (Male)

5 | Shell Finish Type

1: Electroless Nickel

2: Cadmium

3: Chem Film

4: Gold

5: Black Anodize

6: Silver

7: Passivated (Only Stainless Steel)

6 | Conductor Plating

G: Gold Plated Solid Conductor

T: Tin Plated Solid Conductor

D: Flash Gold Plated Solid Conductor

N: Nickel Plated Solid Conductor

7 | Tail Length

1: 0.110" (2.79 mm)

2: 0.140" (3.56 mm)

3: 0.190" (4.83 mm)

X: Non Standard

8 | Hardware Type

Jackpost for Rear Panel Thickness Option

SH1: 0.8 mm (.031")

SH2: 1.2 mm (.047")

SH3: 1.6 mm (.062")

SH4: 2 mm (.080")

SH5: 2.4 mm (.094")

SH6: 3.2 mm (.125")

Omit for none

9 | Option

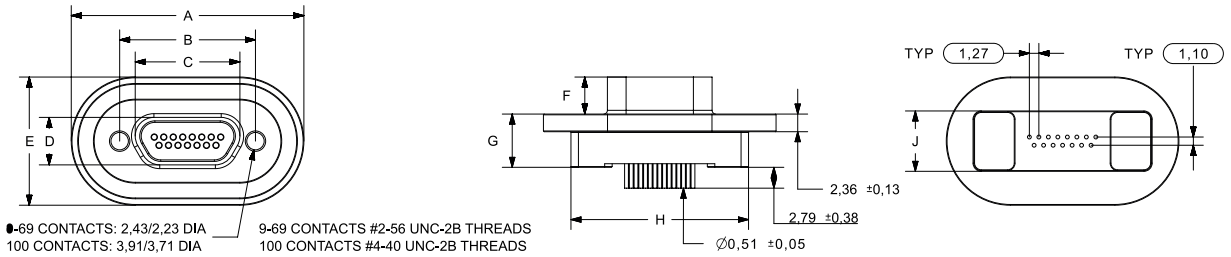
C: Conductive O-Ring

O: O-Ring

G: EMI Gold Spring Only with Plug (Male)

"Reference part number for **72"** non-standard wire length configuration." • **ARMMDRPBS-AP9S1GX-SH1C-72**

ARMMDRPBS



Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.	H Max.	J Max.
9P	26,04	14,35	8,46	4,67	17,14	4,65	6,69	19,94	7,87
9S	26,04	14,35	10,16	6,35	17,14	4,95	6,69	19,94	7,87
15P	31,11	18,16	12,27	4,67	17,14	4,65	6,69	23,75	7,87
15S	31,11	18,16	14	6,35	17,14	4,95	6,69	23,75	7,87
21P	33,66	21,97	16,08	4,67	17,14	4,65	6,69	27,56	7,87
21S	33,66	21,97	17,81	6,35	17,14	4,95	6,69	27,56	7,87
25P	36,2	24,51	18,62	4,67	17,14	4,65	6,69	30,01	7,87
25S	36,2	24,51	20,35	6,35	17,14	4,95	6,69	30,01	7,87
31P	39,24	28,32	22,43	4,67	17,14	4,65	6,69	33,91	7,87
31S	39,24	28,32	24,16	6,35	17,14	4,95	6,69	33,91	7,87
37P	43,82	32,13	26,24	4,67	17,14	4,65	6,69	37,72	7,87
37S	43,82	32,13	27,96	6,35	17,14	4,95	6,69	37,72	7,87
51-2P	56,24	41,02	35,15	4,67	17,14	4,65	6,69	46,61	7,87
51-2S	56,24	41,02	36,83	6,35	17,14	4,95	6,69	46,61	7,87
51P	43,05	30,86	24,97	5,79	18,16	4,65	6,69	36,45	8,92
51S	43,05	30,86	26,7	7,52	18,16	4,95	6,69	36,45	8,92
69P	50,67	38,48	32,61	5,79	18,16	4,65	6,69	44,07	8,92
69S	50,67	38,48	34,29	7,52	18,16	4,95	6,69	44,07	8,92
100P	60,33	45,72	35,13	6,86	19,43	4,65	6,69	55,12	10,01
100S	60,33	45,72	36,86	8,46	19,43	4,95	6,69	55,12	10,01

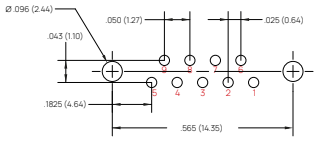
Dimensions given are in mm

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

PCB Layouts

Pin - Socket Connectors



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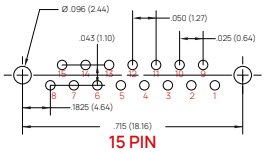

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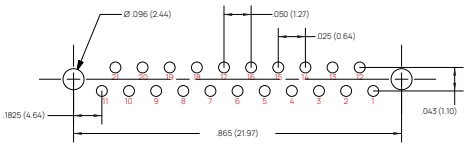
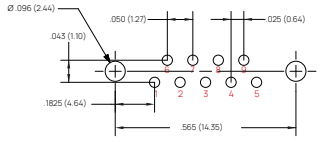
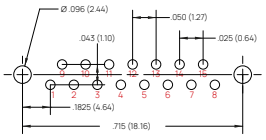


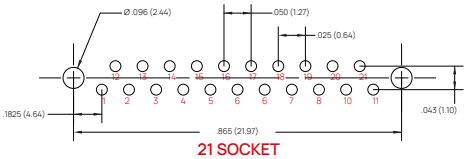
21 PIN



9 SOCKET



15 SOCKET



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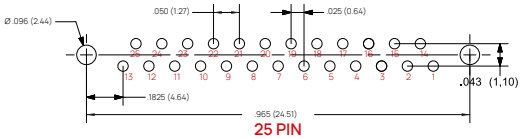

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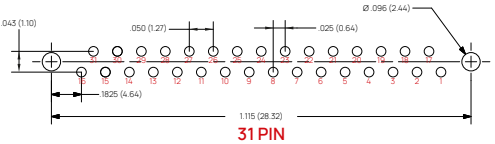

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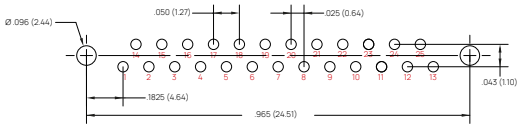

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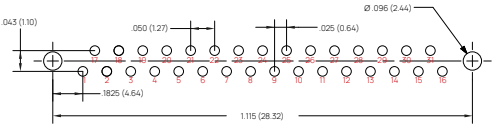

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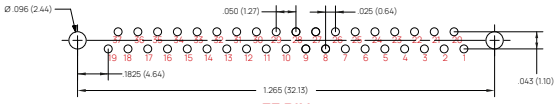

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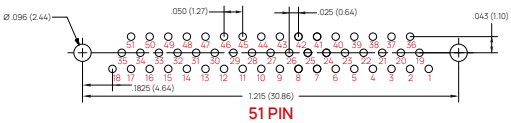

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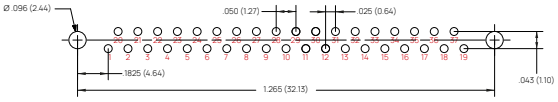

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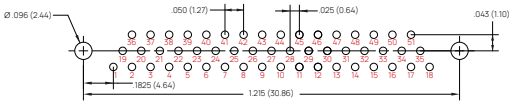

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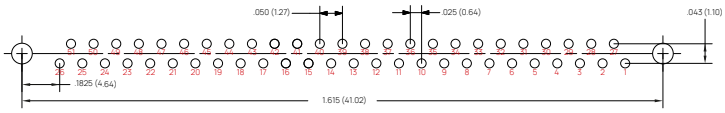

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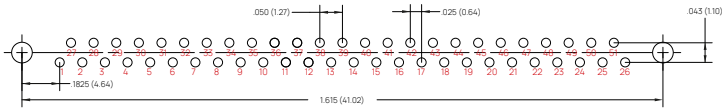
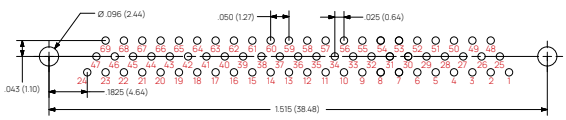


51-2 SOCKET



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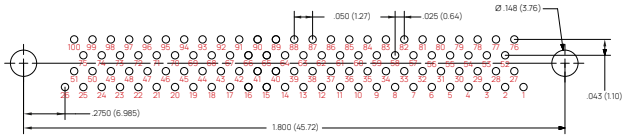

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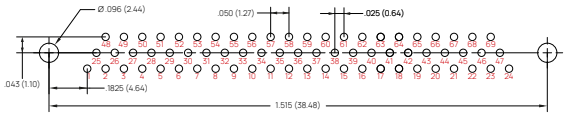

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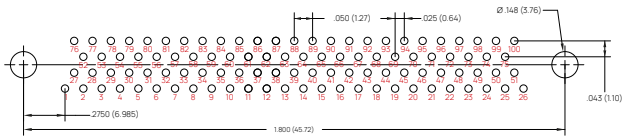


100 SOCKET

REAR PANEL MOUNT CONDENSED STRAIGHT TYPE 0.075” BOARD

ARMMDRPCSB

Rear Panel Mount Condensed Straight Type 0.075” Board
Micro-D Connector Series

Space-Efficient Panel Integration: Condensed straight design minimizes PCB footprint while enabling secure rear-panel mounting.

Reliable Electrical Connection; Thru-hole interface ensures stable solder joints and consistent conductivity under vibration and thermal stress.

Gold-plated contacts and metal shell construction deliver long-term reliability and dependable operation in aerospace, defense, and industrial applications.

ARMMDRPCSB-

Rear Panel Mount Condensed Straight Type 0.075" Board Micro-D Connector Series

	1.	2.	3.	4.	5.	6.	7.	8.	9.
Series	**Shell Material**	**Insulator Material**	**Contact Layout**	**Contact Type**	**Shell Finish Type**	**Conductor Plating**	**Tail Length**	**Hardware Type**	**Option**
ARMMDRPCSB	- A	P	9	S	1	G	1	- SH1	C

1 I Shell Material

A: Aluminum
SS: Stainless Steel

2 I Insulator Material

P: PPS or LCP
LCP-30% Glass-Filled Liquid Crystal Polymer
PPS-40% Glass-Filled Polyphenylene Sulfide

3 I Contact Layout

9, 15, 21, 25, 31, 37, 51, 69, 100

4 I Contact Type

S: Socket (Female)
P: Pin (Male)

5 I Shell Finish Type

1: Electroless Nickel
2: Cadmium
3: Chem Film
4: Gold
5: Black Anodize
6: Silver
7: Passivated (Only Stainless Steel)
8: Zinc Nickel

6 I Conductor Plating

G: Gold Plated Solid Conductor
T: Tin Plated Solid Conductor
D: Flash Gold Plated Solid Conductor
N: Nickel Plated Solid Conductor

7 I Tail Length

1: 0.110" (2.79 mm)
2: 0.140" (3.56 mm)
3: 0.190" (4.83 mm)
X: Non Standard

8 I Hardware Type

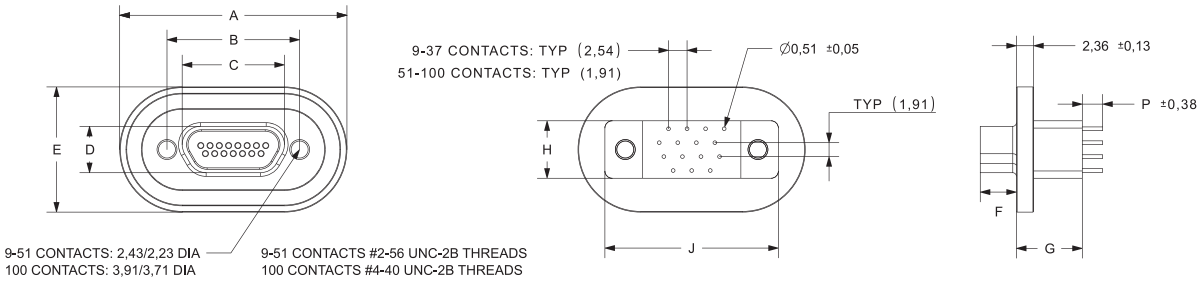
Jackpost for Rear Panel Thickness Option

SH1: 0.8 mm (.031")
SH2: 1.2 mm (.047")
SH3: 1.6 mm (.062")
SH4: 2 mm (.080")
SH5: 2.4 mm (.094")
SH6: 3.2 mm (.125")
Omit for none

9 I Option

C: Conductive O-Ring
O: O-Ring
G: EMI Gold Spring Only with Plug (Male)

"Reference part number for .**172"** non-standard tail length configuration." • ARMMDRPCSB-AP9S1GX-SH1C-.172



Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.	H Max.	J Max.
9P	26,04	14,35	8,46	4,67	17,14	4,65	9,02	7,87	19,94
9S	26,04	14,35	10,16	6,35	17,14	4,95	9,02	7,87	19,94
15P	31,11	18,16	12,27	4,67	17,14	4,65	9,02	7,87	23,75
15S	31,11	18,16	14,00	6,35	17,14	4,95	9,02	7,87	23,75
21P	33,66	21,97	16,08	4,67	17,14	4,65	9,02	7,87	27,56
21S	33,66	21,97	17,81	6,35	17,14	4,95	9,02	7,87	27,56
25P	36,20	24,51	18,62	4,67	17,14	4,65	9,02	7,87	30,01
25S	36,20	24,51	20,35	6,35	17,14	4,95	9,02	7,87	30,01
31P	39,24	28,32	22,43	4,67	17,14	4,65	9,02	7,87	33,91
31S	39,24	28,32	24,16	6,35	17,14	4,95	9,02	7,87	33,91
37P	43,82	32,13	26,24	4,67	17,14	4,65	9,02	7,87	37,72
37S	43,82	32,13	27,96	6,35	17,14	4,95	9,02	7,87	37,72
51P	43,05	30,86	24,97	5,79	18,16	4,65	9,02	8,92	36,45
51S	43,05	30,86	26,70	7,52	18,16	4,95	9,02	8,92	36,45
100P	60,33	45,72	35,13	6,86	19,43	4,65	10,93	11,69	55,12
100S	60,33	45,72	36,86	8,46	19,43	4,95	10,93	11,69	55,12

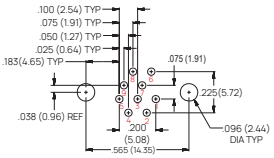
Dimensions given are in mm

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

PCB Layouts

Pin - Socket Connectors



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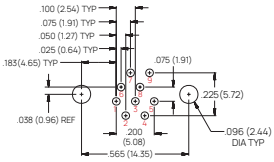
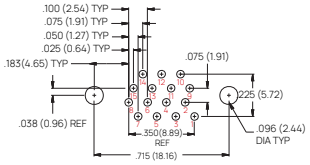


9 SOCKET



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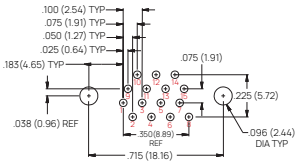

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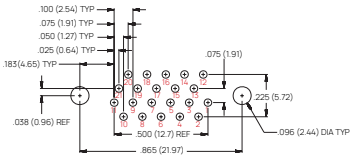

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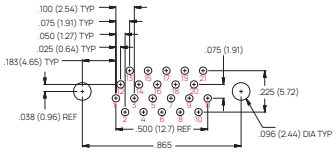

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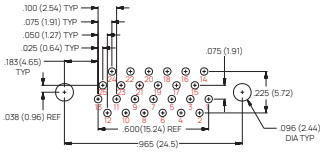

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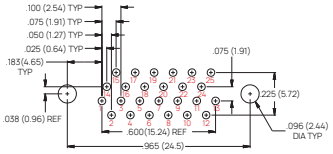

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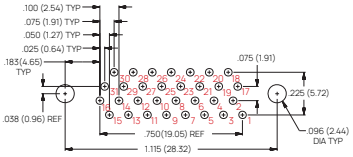

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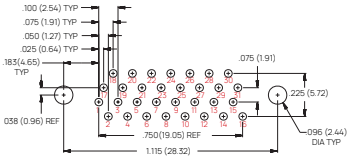

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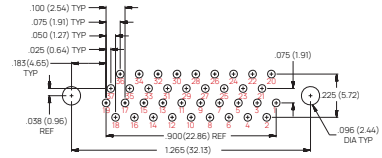

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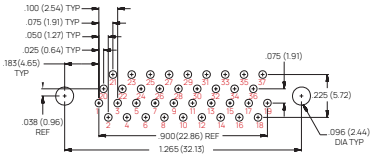

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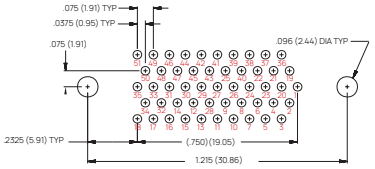

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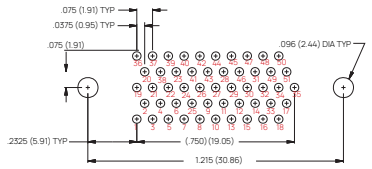

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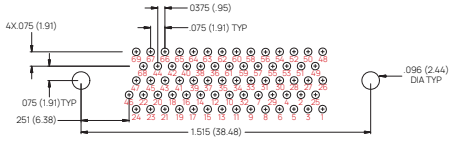

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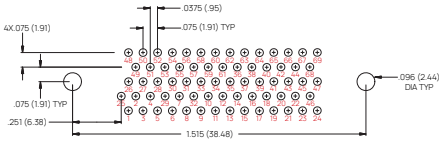

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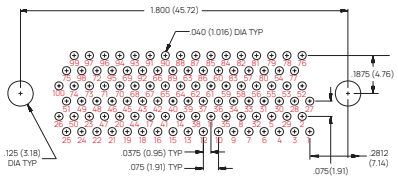

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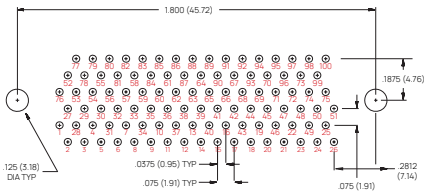


100 SOCKET

REAR PANEL MOUNT CONDENSED RIGHT ANGLE TPYE 0.100” BOARD

ARMMDRPCRB

Rear Panel Mount Condensed Right Angle Type 0.100” Board
Micro-D Connector Series

Space-Saving Panel Integration: Condensed right-angle design allows secure rear-panel mounting while minimizing PCB footprint in compact assemblies.

Reliable Electrical Connection; Thru-hole interface ensures stable solder joints and consistent conductivity under vibration, shock, and thermal cycling.

Gold-plated contacts and metal shell construction provide long-term reliability and dependable operation for aerospace, defense, and industrial applications.

ARMMDRPCRB-

Rear Panel Mount Condensed Right Angle Type 0.100" Board Micro-D Connector Series

	1.	2.	3.	4.	5.	6.	7.	8.		9.
Series	**Shell Material**	**Insulator Material**	**Contact Layout**	**Contact Type**	**Shell Finish Type**	**Conductor Plating**	**Tail Length**	**Hardware Type**		**Option**
ARMMDRPCRB	- A	P	9	S	1	G	1	- SH1	T	C

1 | Shell Material

A: Aluminum
SS: Stainless Steel

2 | Insulator Material

P: PPS or LCP
LCP-30% Glass-Filled Liquid Crystal Polymer
PPS-40% Glass-Filled Polyphenylene Sulfide

3 | Contact Layout

9, 15, 21, 25, 31, 37, 51, 69, 100

4 | Contact Type

S: Socket (Female)
P: Pin (Male)

5 | Shell Finish Type

1: Electroless Nickel
2: Cadmium
3: Chem Film
4: Gold
5: Black Anodize
6: Silver
7: Passivated (Only Stainless Steel)
8: Zinc Nickel

6 | Conductor Plating

G: Gold Plated Solid Conductor
T: Tin Plated Solid Conductor
D: Flash Gold Plated Solid Conductor
N: Nickel Plated Solid Conductor

7 | Tail Length

1: 0.110" (2.79 mm)
2: 0.140" (3.56 mm)
3: 0.190" (4.83 mm)
X: Non Standard

8 | Hardware Type

Jackpost for Rear Panel Thickness Option

SH1: 0.8 mm (.031")
SH2: 1.2 mm (.047")
SH3: 1.6 mm (.062")
SH4: 2 mm (.080")
SH5: 2.4 mm (.094")
SH6: 3.2 mm (.125")
Omit for none

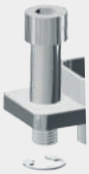
PCB Mounting Hardware Option

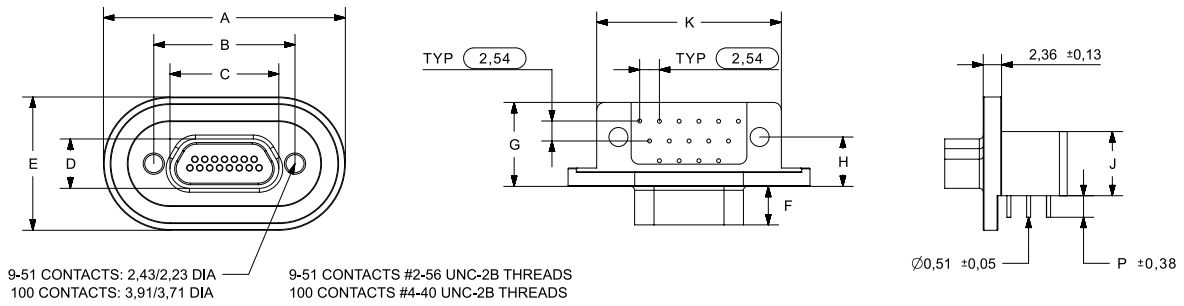
Omit for none
T: Threaded Insert Only
TJ: Threaded Insert w/Jackscrew

9 | Option

C: Conductive O-Ring
O: O-Ring
G: EMI Gold Spring Only with Plug (Male)

"Reference part number for **.172"** non-standard tail length configuration." • **ARMMDRPCRB-AP9S1GX-SH1C-.172**

B	P	HJ	HJ1	SJ	SJ1	T
						
Thru-Hole, No Mounting Hardware	Jackpost	Hex Head Jackscrew	Hex Head Jackscrew Extended	Slot Head Jackscrew	Slot Head Jackscrew Extended	Threaded Insert



Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.	H Max.	J Max.	K Max.
9P	26,04	14,35	8,46	4,67	17,14	4,65	10,80	6,35	8,25	19,94
9S	26,04	14,35	10,16	6,35	17,14	4,95	10,80	6,35	8,25	19,94
15P	31,11	18,16	12,27	4,67	17,14	4,65	10,80	6,35	8,25	23,75
15S	31,11	18,16	14,00	6,35	17,14	4,95	10,80	6,35	8,25	23,75
21P	33,66	21,97	16,08	4,67	17,14	4,65	10,80	6,35	8,25	27,56
21S	33,66	21,97	17,81	6,35	17,14	4,95	10,80	6,35	8,25	27,56
25P	36,20	24,51	18,62	4,67	17,14	4,65	10,80	6,35	8,25	30,01
25S	36,20	24,51	20,35	6,35	17,14	4,95	10,80	6,35	8,25	30,01
31P	39,24	28,32	22,43	4,67	17,14	4,65	13,34	6,35	8,25	33,91
31S	39,24	28,32	24,16	6,35	17,14	4,95	13,34	6,35	8,25	33,91
37P	43,82	32,13	26,24	4,67	17,14	4,65	13,34	6,35	8,25	37,72
37S	43,82	32,13	27,96	6,35	17,14	4,95	13,34	6,35	8,25	37,72
51P	43,05	30,86	24,97	5,79	18,16	4,65	16,67	7,62	9,14	36,45
51S	43,05	30,86	26,70	7,52	18,16	4,95	16,67	7,62	9,14	36,45
100P	60,33	45,72	35,13	6,86	19,43	4,65	25,65	10,16	10,67	55,12
100S	60,33	45,72	36,86	8,46	19,43	4,95	25,65	10,16	10,67	55,12

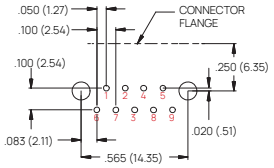
Dimensions given are in mm

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

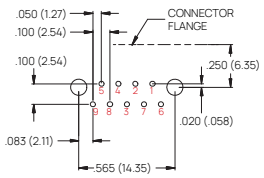
Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

PCB Layouts

Pin - Socket Connectors



9 PIN



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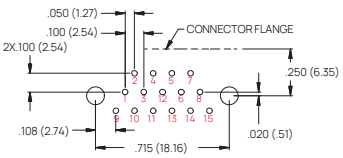

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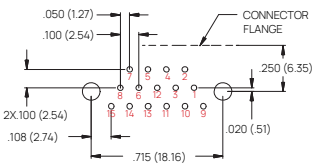
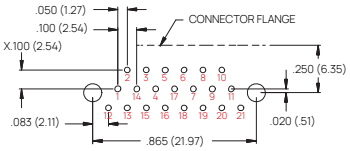


15 SOCKET



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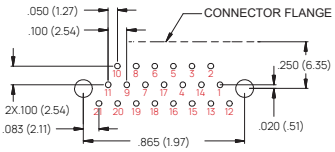

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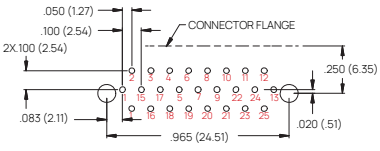

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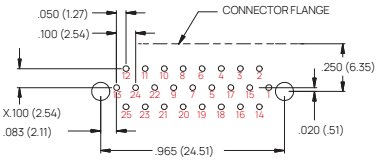

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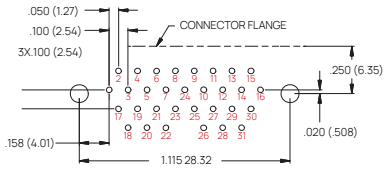

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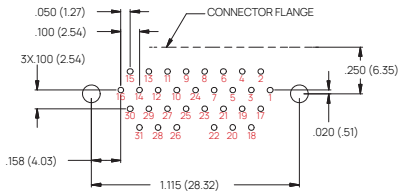
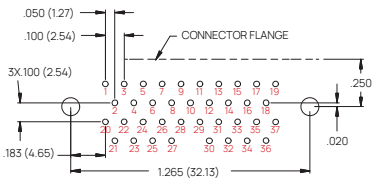
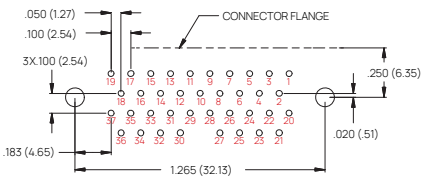


31 SOCKET



37 PIN



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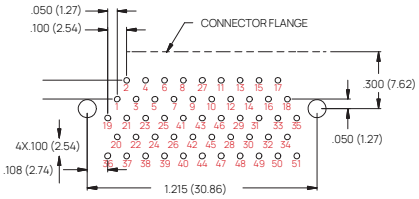
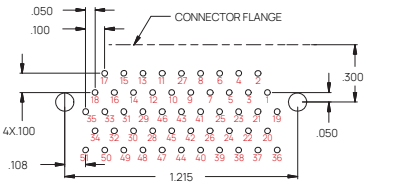


51 PIN



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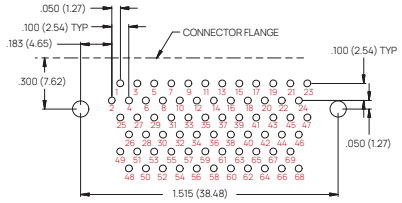

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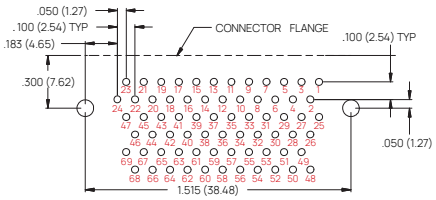
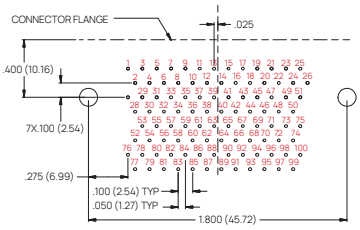
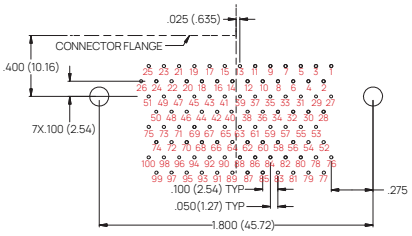


69 SOCKET



100 PIN

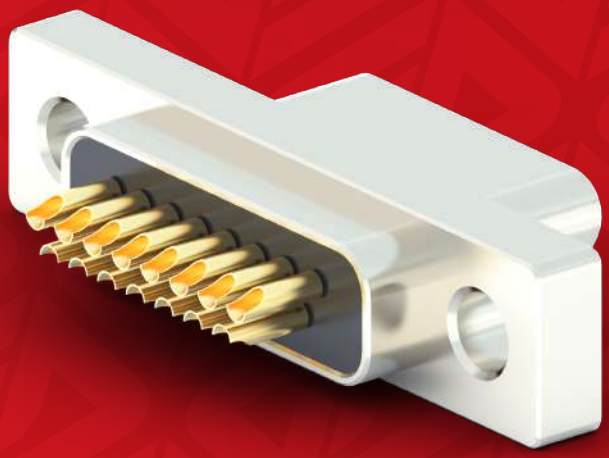


100 SOCKET

LOW PROFILE SOLDER CUP

ARMMDLPSC

Low Profile Solder Cup
Micro-D Connector Series



Low-profile design allows installation in space-constrained panels while maintaining a clean appearance.

Versatile Solder Termination; Solder cup contacts enable easy wire attachment with excellent conductivity and long-term stability.

Metal shell construction and gold-plated contacts ensure robust mechanical retention and consistent electrical performance in aerospace, defense, and industrial applications.

ARMMDLPSC–

Low Profile Solder Cup Micro-D Connector Series

	1.	2.	3.	4.	5.	6.
Series	**Shell Material**	**Insulator Material**	**Contact Layout**	**Contact Type**	**Shell Finish Type**	**Hardware Type**
ARMMDLPSC	- A	P	9	S	1	- B

1 | Shell Material

A: Aluminum

SS: Stainless Steel

2 | Insulator Material

P: PPS or LCP

LCP-30% Glass-Filled Liquid Crystal Polymer

PPS-40% Glass-Filled Polyphenylene Sulfide

3 | Contact Layout

9, 15, 21, 25, 31, 37, 51-2, 51

4 | Contact Type

S: Socket (Female)

P: Pin (Male)

5 | Shell Finish Type

1: Electroless Nickel

2: Cadmium

3: Chem Film

4: Gold

5: Black Anodize

6: Silver

7: Passivated
(Only Stainless Steel)

6 | Hardware Type

B: Thru-Hole • **P:** Jackpost • **HJ:** Hex Head Jackscrew

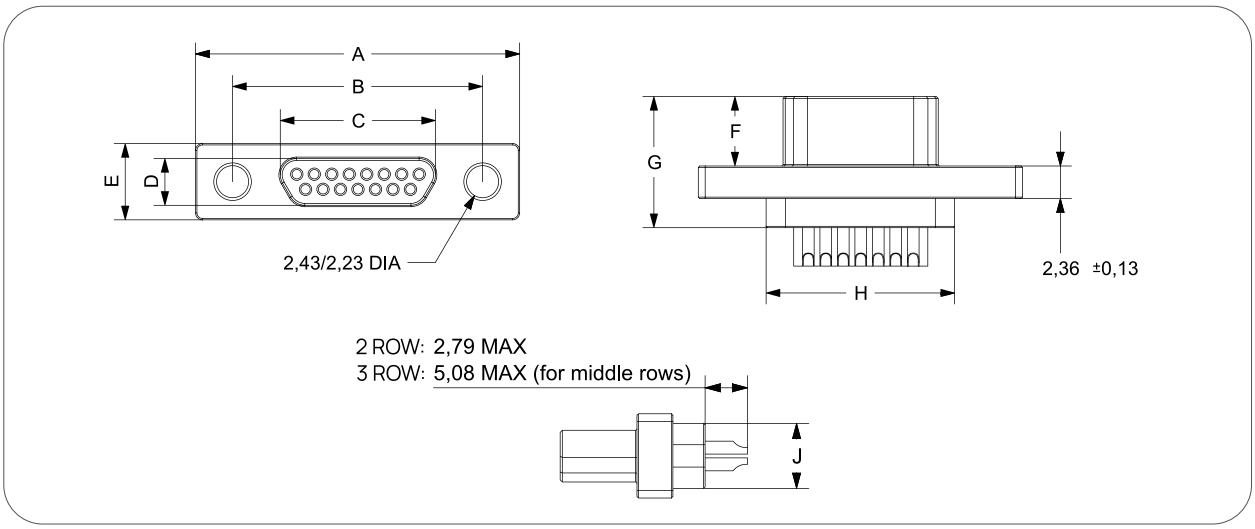
HJ1: Hex Head Jackscrew Extended

SJ: Slot Head Jackscrew

SJ1: Slot Head Jackscrew Extended

T: Threaded Insert

B	P	HJ	HJ1	SJ	SJ1	T
Thru-Hole, No Mounting Hardware	Jackpost	Hex Head Jackscrew	Hex Head Jackscrew Extended	Slot Head Jackscrew	Slot Head Jackscrew Extended	Threaded Insert



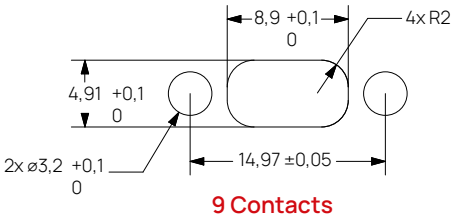
Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.	H Max.	J Max.
9P	19,69	14,35	8,42	3,40	5,54	5,05	9,53	9,88	4,27
9S	19,69	14,35	9,51	5,54	5,54	4,57	9,14	9,88	4,27
15P	23,54	18,16	11,27	3,40	5,54	5,05	9,53	13,69	4,27
15S	23,54	18,16	12,67	5,54	5,54	4,57	9,14	13,69	4,27
21P	27,31	21,97	15,97	3,40	5,54	5,05	9,53	17,52	4,27
21S	27,31	21,97	17,17	5,54	5,54	4,57	9,14	17,52	4,27
25P	29,85	24,51	17,48	3,40	5,54	5,05	9,53	20,24	4,27
25S	29,85	24,51	19,67	5,54	5,54	4,57	9,14	20,04	4,27
31P	33,70	28,32	21,39	3,40	5,54	5,05	9,53	23,85	4,27
31S	33,70	28,32	23,16	5,54	5,54	4,57	9,14	23,85	4,27
37P	37,51	32,13	25,20	3,40	5,54	5,05	9,53	27,66	4,27
37S	37,51	32,13	26,97	5,54	5,54	4,57	9,14	27,66	4,27
51-2P	46,65	41,02	34,04	3,40	5,54	5,05	9,53	36,96	4,27
51-2S	46,65	41,02	36,30	5,54	5,54	4,57	9,14	36,96	4,27
51P	36,30	30,86	23,98	4,43	6,47	5,05	9,53	25,75	5,42
51S	36,30	30,86	25,65	6,47	6,47	4,57	9,14	25,75	5,42

Dimensions given are in mm

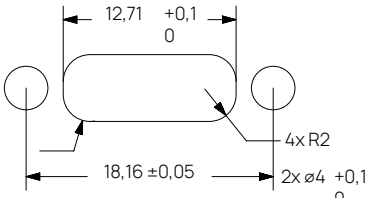
Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

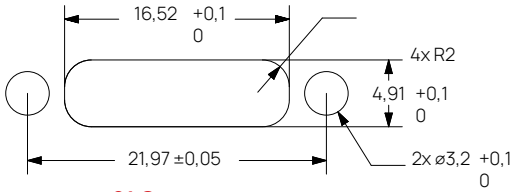
Low Profile Micro-D Panel Cutouts



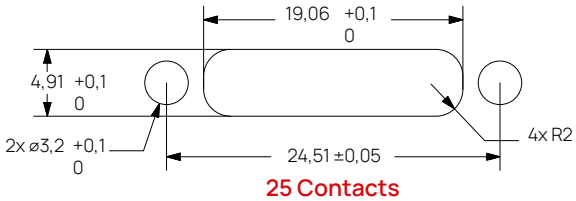
9 Contacts



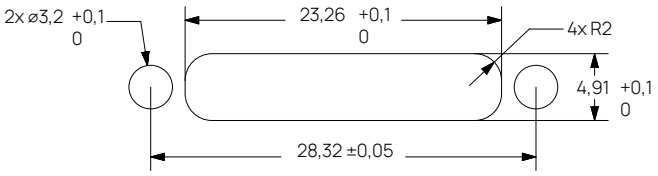
15 Contacts



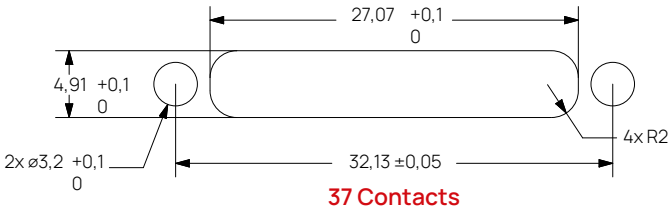
21 Contacts



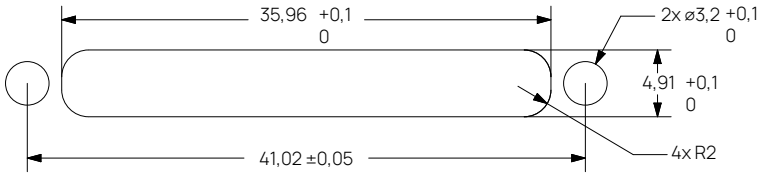
25 Contacts



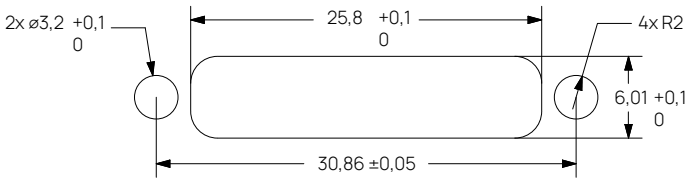
31 Contacts



37 Contacts



51-2 Contacts



51 Contacts

LOW PROFILE PRE-WIRED

ARMMDLPPW

Low Profile Pre-Wired
Micro-D Connector Series

Pre-attached wires enable fast installation in space-constrained panels, reducing assembly time.

Provides space and weight savings in high-density electronic systems.

Gold-plated contacts and sturdy construction provide reliable operation in aerospace, defense, and industrial applications.

ARMMDLPPW-

Low Profile Pre-Wired Micro-D Connector Series

	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
Series	Shell Material	Insulator Material	Contact Layout	Contact Type	Shell Finish Type	Wire Gage	Wire Standard	Colour Code	Wire Length	Hardware Type
ARMMDLPPW	- A	P	9	S	1	4	K	1	18	- B

1 | Shell Material

A: Aluminum
SS: Stainless Steel

2 | Insulator Material

P: PPS or LCP
LCP-30% Glass-Filled Liquid Crystal Polymer
PPS-40% Glass-Filled Polyphenylene Sulfide

3 | Contact Layout

9, 15, 21, 25, 31, 37, 51-2, 51

4 | Contact Type

S: Socket (Female)
P: Pin (Male)

5 | Shell Finish Type

1: Electroless Nickel
2: Cadmium
3: Chem Film
4: Gold
5: Black Anodize
6: Silver
7: Passivated (Only Stainless Steel)

6 | Wire Gage

4: 24 • **6:** 26 • **8:** 28 • **0:** 30

7 | Wire Standard

K: M22759/11
E: NEMA HP3 (M16878/4)
L: M22759/33

8 | Colour Code

1: 10 Colour Repeat
2: Color coded per MIL-STD-681, system
3: All White
4: All Yellow

9 | Wire Length

18: 18 inches
36: 36 inches
24: 24 inches
X: Non Standard Length

10 | Hardware Type

B: Thru-Hole • **P:** Jackpost • **HJ:** Hex Head Jackscrew
HJ1: Hex Head Jackscrew Extended
SJ: Slot Head Jackscrew
SJ1: Slot Head Jackscrew Extended
T: Threaded Insert

"Reference part number for **72"** non-standard wire length configuration." • **ARMMDLPPW-AP9S14K1X-B-72**

B

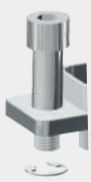
Thru-Hole, No Mounting Hardware

P

Jackpost

HJ

Hex Head Jackscrew

HJ1

Hex Head Jackscrew Extended

SJ

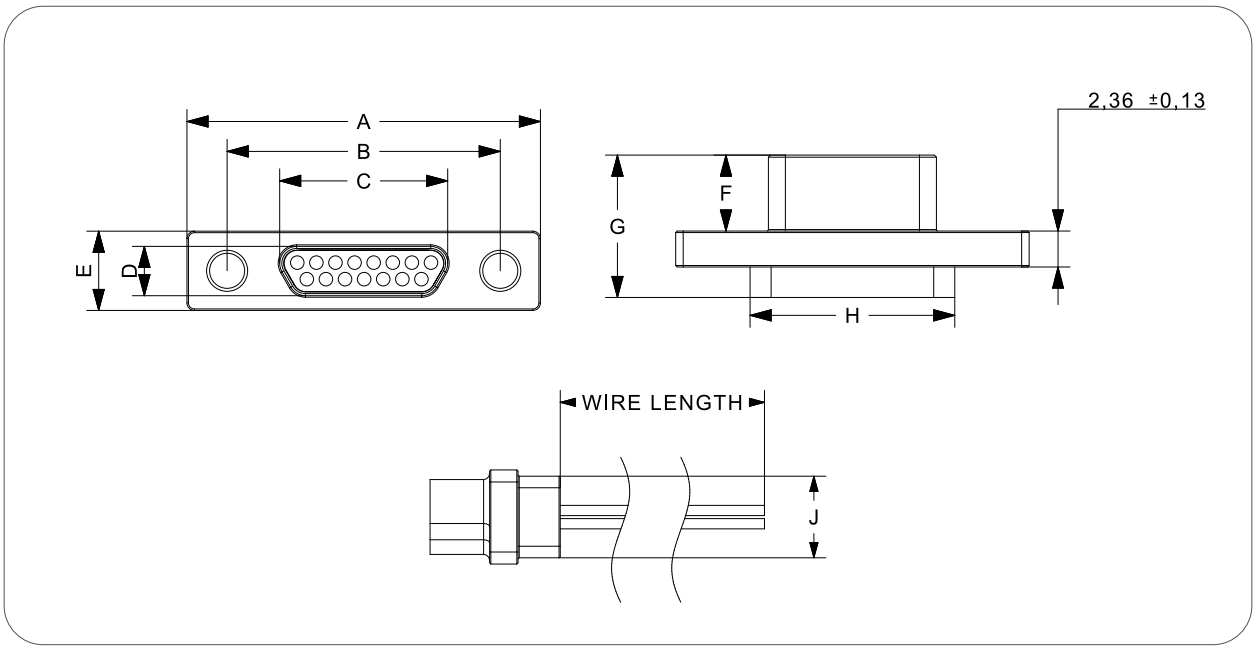
Slot Head Jackscrew

SJ1

Slot Head Jackscrew Extended

T

Threaded Insert



Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.	H Max.	J Max.
9P	19,69	14,35	8,42	3,40	5,54	5,05	9,53	9,88	4,27
9S	19,7	14,35	9,51	5,54	5,54	4,57	9,14	9,88	4,27
15P	23,54	18,16	11,27	3,40	5,54	5,05	9,53	13,69	4,27
15S	23,54	18,16	12,67	5,54	5,54	4,57	9,14	13,69	4,27
21P	27,31	21,97	15,97	3,40	5,54	5,05	9,53	17,52	4,27
21S	27,31	21,97	17,17	5,54	5,54	4,57	9,14	17,52	4,27
25P	29,85	24,51	17,48	3,40	5,54	5,05	9,53	20,04	4,27
25S	29,85	24,51	19,67	5,54	5,54	4,57	9,14	20,04	4,27
31P	33,7	28,32	21,39	3,40	5,54	5,05	9,53	23,85	4,27
31S	33,7	28,32	23,16	5,54	5,54	4,57	9,14	23,85	4,27
37P	37,51	32,13	25,2	3,40	5,54	5,05	9,53	27,66	4,27
37S	37,51	32,13	26,97	5,54	5,54	4,57	9,14	27,66	4,27
51-2P	46,65	41,02	34,04	3,40	5,54	5,05	9,91	36,96	4,27
51-2S	46,65	41,02	36,3	5,54	5,54	4,57	9,58	36,96	4,27

Dimensions given are in mm

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

LOW PROFILE INTEGRAL BACKSHELL

ARMMDLPIB

Low Profile Integral Backshell
Micro-D Connector Series

Built-in backshell eliminates the need for separate accessories, providing secure cable support and strain relief.

Improved EMI/RFI Protection; Integral design ensures better shielding performance for sensitive systems.

Well-suited for defense, aerospace, avionics, and other environments requiring high-reliability interconnects.

ARMMDLPIB-

Low Profile Integral Backshell Micro-D Connector Series

	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
Series	Shell Material	Insulator Material	Contact Layout	Contact Type	Shell Finish Type	Wire Gage	Wire Standard	Colour Code	Wire Length	Hardware Type
ARMMDLPIB	- A	P	9	S	1	4	K	1	18	- B

1 I Shell Material

A: Aluminum
SS: Stainless Steel

2 I Insulator Material

P: PPS or LCP

LCP-30% Glass-Filled Liquid Crystal Polymer

PPS-40% Glass-Filled Polyphenylene Sulfide

3 I Contact Layout

9, 15, 21, 25, 31, 37, 51-2, 51

4 I Contact Type

S: Socket (Female)
P: Pin (Male)

5 I Shell Finish Type

1: Electroless Nickel
2: Cadmium
3: Chem Film
4: Gold
5: Black Anodize
6: Silver
7: Passivated (Only Stainless Steel)

6 I Wire Gage

4: 24 • **6:** 26 • **8:** 28 • **0:** 30

7 I Wire Standard

K: M22759/11
E: NEMA HP3 (M16878/4)
L: M22759/33

8 I Colour Code

1: 10 Colour Repeat
2: Color coded per MIL-STD-681, system
3: All White
4: All Yellow

9 I Wire Length

18: 18 inches
36: 36 inches
24: 24 inches
X: Non Standard Length

10 I Hardware Type

B: Thru-Hole • **P:** Jackpost • **HJ:** Hex Head Jackscrew
HJ1: Hex Head Jackscrew Extended
SJ: Slot Head Jackscrew
SJ1: Slot Head Jackscrew Extended
T: Threaded Insert

"Reference part number for **72"** non-standard wire length configuration." • **ARMMDLPIB-AP9S14K1X-B-72**

B

Thru-Hole, No Mounting Hardware

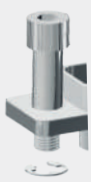
P

Jackpost

HJ

Hex Head Jackscrew

HJ1



Hex Head Jackscrew Extended

SJ

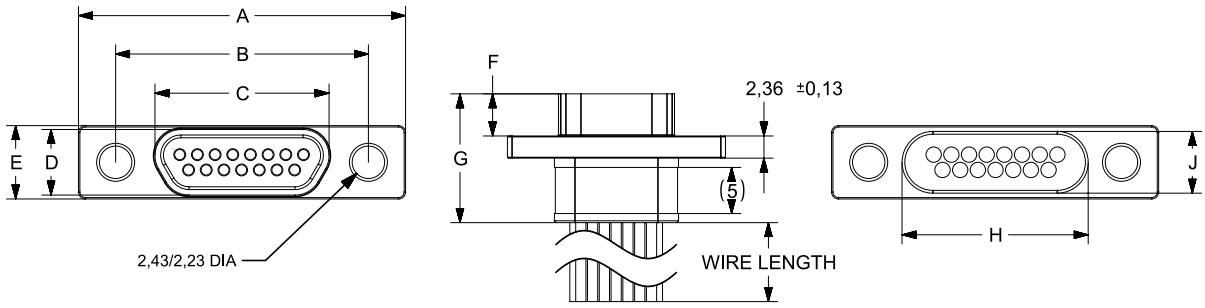
Slot Head Jackscrew

SJ1

Slot Head Jackscrew Extended

T

Threaded Insert



Layout	A Max.	B (±0,08)	C Max.	D Max.	E Max.	F (±0,08)	G Max.	H Max.	J Max.
9P	19,7	14,35	8,42	2,76	5,27	5,05	9,53	10	4,28
9S	19,7	14,35	9,51	4,71	5,27	4,57	9,14	9,56	4,45
15P	23,54	18,16	11,27	2,76	5,27	5,05	9,53	13,82	4,28
15S	23,54	18,16	12,67	4,71	5,27	4,57	9,14	13,38	4,45
21P	27,31	21,97	15,97	2,76	5,27	5,05	9,53	17,62	4,28
21S	27,31	21,97	17,17	4,71	5,27	4,57	9,14	17,19	4,45
25P	29,85	24,51	17,48	2,76	5,27	5,05	9,53	20,16	4,28
25S	29,85	24,51	19,67	4,71	5,27	4,57	9,14	19,72	4,45
31P	33,7	28,32	21,39	2,76	5,27	5,05	9,53	23,97	4,28
31S	33,7	28,32	23,16	4,71	5,27	4,57	9,14	23,53	4,45
37P	37,51	32,13	25,2	2,76	5,27	5,05	9,53	27,78	4,28
37S	37,51	32,13	26,97	4,71	5,27	4,57	9,14	27,34	4,45
51-2P	46,65	41,02	34,04	2,76	5,27	5,05	9,91	36,67	4,28
51-2S	46,65	41,02	36,3	4,71	5,27	4,57	9,58	36,23	4,45
51P	36,45	30,86	23,93	3,4	6,6	5,05	9,91	26,51	5,61
51S	36,45	30,86	26,16	5,54	6,6	4,57	9,58	26,07	5,78

Dimensions given are in mm

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
Operating Temperature	-55 °C to +125 °C
Shock, Vibration	50 g – 20 g
Mating Force	(10 ounces) × (# of Contacts

Materials and Finishes	
Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, Passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP) Polyphenylene Sulfide (PPS)
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

LOW PROFILE BOARD STRAIGHT TYPE

ARMMDLPBS

Low Profile Board Straight Type
Micro-D Connector Series

Compact PCB Integration; Straight low-profile design minimizes PCB footprint while ensuring secure board mounting.

Reliable Electrical Connection; Through-hole interface provides stable solder joints and consistent conductivity.

Durable & High-Performance; Gold-plated contacts and metal shell construction ensure long-term reliability in aerospace, defense, and industrial applications.

ARMMDLPBS-

Low Profile Board Straight Tyte Micro-D Connector Series

	1.	2.	3.	4.	5.	6.	7.	8.
Series	**Shell Material**	**Insulator Material**	**Contact Layout**	**Contact Type**	**Shell Finish Type**	**Conductor Plating**	**Tail Length**	**Hardware Type**
ARMMDLPBS	- A	P	9	S	1	G	1	- B

1 | Shell Material

A: Aluminum

SS: Stainless Steel

2 | Insulator Material

P: PPS or LCP

LCP-30% Glass-Filled Liquid Crystal Polymer

PPS-40% Glass-Filled Polyphenylene Sulfide

3 | Contact Layout

9, 15, 21, 25, 31, 37, 51-2, 51

4 | Contact Type

S: Socket (Female)

P: Pin (Male)

5 | Shell Finish Type

1: Electroless Nickel

2: Cadmium

3: Chem Film

4: Gold

5: Black Anodize

6: Silver

7: Passivated (Only Stainless Steel)

6 | Conductor Plating

G: Gold Plated Solid Conductor

T: Tin Plated Solid Conductor

D: Flash Gold Plated Solid Conductor

N: Nickel Plated Solid Conductor

7 | Tail Length

1: 0.110" (2.79 mm)

2: 0.140" (3.56 mm)

3: 0.190" (4.83 mm)

X: Non Standard

8 | Hardware Type

B: Thru-Hole • **P:** Jackpost • **HJ:** Hex Head Jackscrew

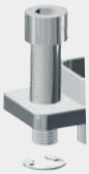
HJ1: Hex Head Jackscrew Extended

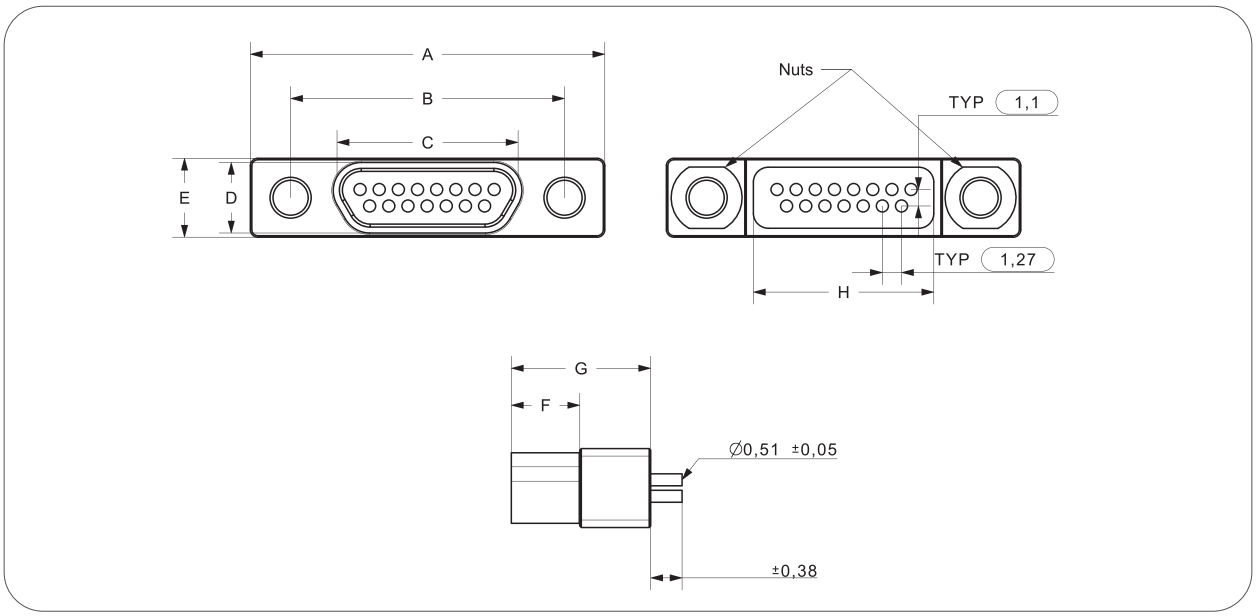
SJ: Slot Head Jackscrew

SJ1: Slot Head Jackscrew Extended

T: Threaded Insert

"Reference part number for **.172"** non-standard tail length configuration." • **ARMMDLPBS-AP9S1GX-B-.172**

B	P	HJ	HJ1	SJ	SJ1	T
						
Thru-Hole, No Mounting Hardware	Jackpost	Hex Head Jackscrew	Hex Head Jackscrew Extended	Slot Head Jackscrew	Slot Head Jackscrew Extended	Threaded Insert



Layout	A Max.	B Max.	C Max.	D Max.	E Max.	F Max.	G Max.	H Max.
9P	19,69	14,35	8,42	3,4	5,54	5,05	9,53	8,19
9S	19,7	14,35	9,51	5,54	5,54	4,57	9,14	8,15
15P	23,54	18,16	11,27	3,4	5,54	5,05	9,53	12
15S	23,54	18,16	12,67	5,54	5,54	4,57	9,14	12
21P	27,31	21,97	15,97	3,4	5,54	5,05	9,53	15,81
21S	27,31	21,97	17,17	5,54	5,54	4,57	9,14	15,81
25P	29,85	24,51	17,48	3,4	5,54	5,05	9,53	18,35
25S	29,85	24,51	19,67	5,54	5,54	4,57	9,14	18,35
31P	33,7	28,32	21,39	3,4	5,54	5,05	9,53	22,16
31S	33,7	28,32	23,16	5,54	5,54	4,57	9,14	22,16
37P	37,51	32,13	25,2	3,4	5,54	5,05	9,53	25,97
37S	37,51	32,13	26,97	5,54	5,54	4,57	9,14	25,97
51-2P	46,65	41,02	34,04	3,4	5,54	5,05	9,91	34,86
51-2S	46,65	41,02	36,3	5,54	5,54	4,57	9,58	34,86

Dimensions given are in mm

Performance Specifications	
Current Rating	3 AMP
DWV	600 VAC, Sea Level
Insulation Resistance	5000 Megohms Minimum
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Low Level Contact Resistance	32 Milliohms Maximum
Magnetic Permeability	2 µ Maximum
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Shock, Vibration	50 g – 20 g
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Materials and Finishes	
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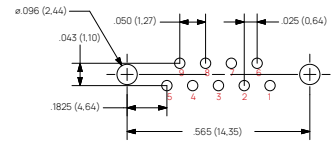
Interfacial Seal	Fluorosilicone Rubber, Blue
Pin Contact	Copper Alloy, Gold over Nickel Plating
Socket Contact	Copper Alloy, Gold over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Series Stainless Steel

PCB Layouts

Pin - Socket Connectors



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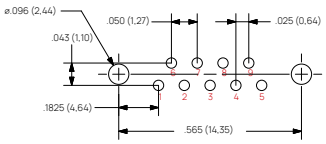

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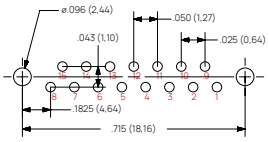

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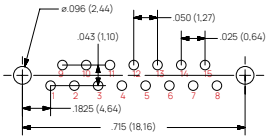

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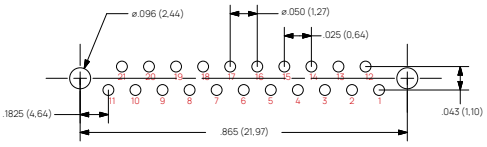

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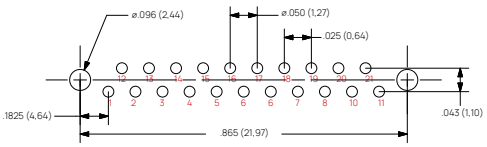

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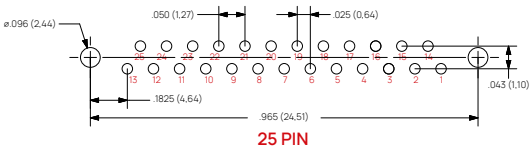

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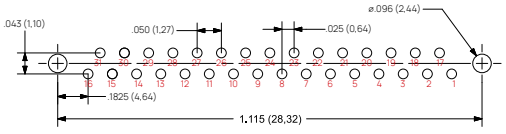

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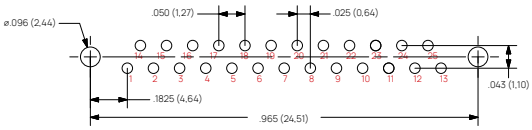

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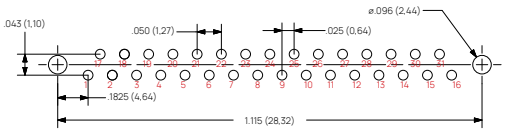

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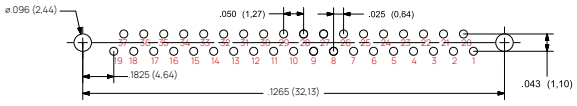

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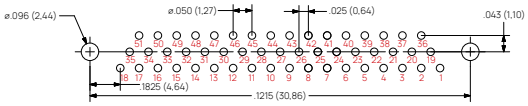

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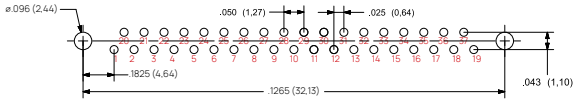

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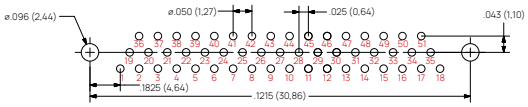

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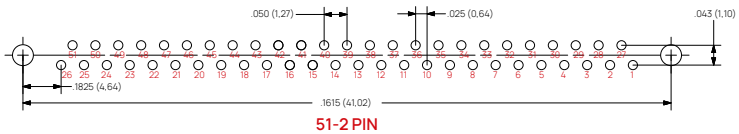
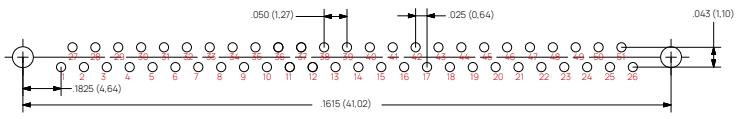


51-2 PIN

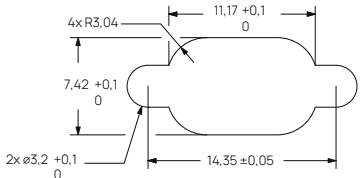


51-2 SOCKET

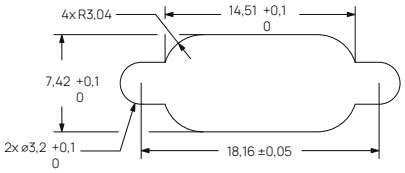
MIL-STD-681 Color Code Chart For Micro-D Connectors

PIN NO.	MIL-STD-681 Number	Base Color	First Stripe	Second Stripe	PIN No.	MIL-STD-681 No.	Base Color	First Stripe	Second Stripe	Third Stripe
1	0	BLK			51	957	WHT	GRN	VIO	
2	1	BRN			52	958	WHT	GRN	GRY	
3	2	RED			53	967	WHT	BLU	VIO	
4	3	ORN			54	968	WHT	BLU	GRY	
5	4	YEL			55	978	WHT	VIO	GRY	
6	5	GRN			56	9012	WHT	BLK	BRN	RED
7	6	BLU			57	9013	WHT	BLK	BRN	ORN
8	7	VIO			58	9014	WHT	BLK	BRN	YEL
9	8	GRY			59	9015	WHT	BLK	BRN	GRN
10	9	WHT			60	9016	WHT	BLK	BRN	BLU
11	90	WHT	BLK		61	9017	WHT	BLK	BRN	VIO
12	91	WHT	BRN		62	9018	WHT	BLK	BRN	GRY
13	92	WHT	RED		63	9023	WHT	BLK	RED	ORN
14	93	WHT	ORN		64	9024	WHT	BLK	RED	YEL
15	94	WHT	YEL		65	9025	WHT	BLK	RED	GRN
16	95	WHT	GRN		66	9026	WHT	BLK	RED	BLU
17	96	WHT	BLU		67	9027	WHT	BLK	RED	VIO
18	97	WHT	VIO		68	9028	WHT	BLK	RED	GRY
19	98	WHT	GRY		69	9034	WHT	BLK	ORN	YEL
20	901	WHT	BLK	BRN	70	9035	WHT	BLK	ORN	GRN
21	902	WHT	BLK	RED	71	9036	WHT	BLK	ORN	BLU
22	903	WHT	BLK	ORN	72	9037	WHT	BLK	ORN	VIO
23	904	WHT	BLK	YEL	73	9038	WHT	BLK	ORN	GRY
24	905	WHT	BLK	GRN	74	9045	WHT	BLK	YEL	GRN
25	906	WHT	BLK	BLU	75	9046	WHT	BLK	YEL	BLU
26	907	WHT	BLK	VIO	76	9047	WHT	BLK	YEL	VIO
27	908	WHT	BLK	GRY	77	9048	WHT	BLK	YEL	GRY
28	912	WHT	BRN	RED	78	9056	WHT	BLK	GRN	BLU
29	913	WHT	BRN	ORN	79	9057	WHT	BLK	GRN	VIO
30	914	WHT	BRN	YEL	80	9058	WHT	BLK	GRN	GRY
31	915	WHT	BRN	GRN	81	9067	WHT	BLK	BLU	VIO
32	916	WHT	BRN	BLU	82	9068	WHT	BLK	BLU	GRY
33	917	WHT	BRN	VIO	83	9078	WHT	BLK	VIO	GRY
34	918	WHT	BRN	GRY	84	9123	WHT	BRN	RED	ORN
35	923	WHT	RED	ORN	85	9124	WHT	BRN	RED	YEL
36	924	WHT	RED	YEL	86	9125	WHT	BRN	RED	GRN
37	925	WHT	RED	GRN	87	9126	WHT	BRN	RED	BLU
38	926	WHT	RED	BLU	88	9127	WHT	BRN	RED	VIO
39	927	WHT	RED	VIO	89	9128	WHT	BRN	RED	GRY
40	928	WHT	RED	GRY	90	9134	WHT	BRN	ORN	YEL
41	934	WHT	ORN	YEL	91	9135	WHT	BRN	ORN	GRN
42	935	WHT	ORN	GRN	92	9136	WHT	BRN	ORN	BLU
43	936	WHT	ORN	BLU	93	9137	WHT	BRN	ORN	VIO
44	937	WHT	ORN	VIO	94	9138	WHT	BRN	ORN	GRY
45	938	WHT	ORN	GRY	95	9145	WHT	BRN	YEL	GRN
46	945	WHT	YEL	GRN	96	9146	WHT	BRN	YEL	BLU
47	946	WHT	YEL	BLU	97	9147	WHT	BRN	YEL	VIO
48	947	WHT	YEL	VIO	98	9148	WHT	BRN	YEL	GRY
49	948	WHT	YEL	GRY	99	9156	WHT	BRN	GRN	BLU
50	956	WHT	GRN	BLU	100	9157	WHT	BRN	GRN	VIO

Micro-D Panel Cutouts



9 Contact



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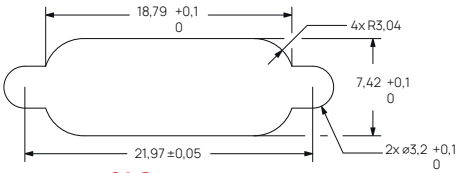

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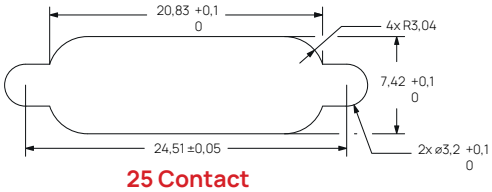

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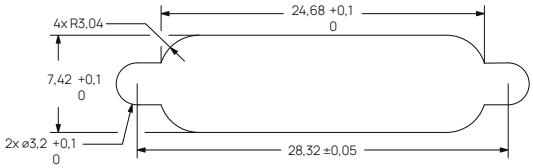

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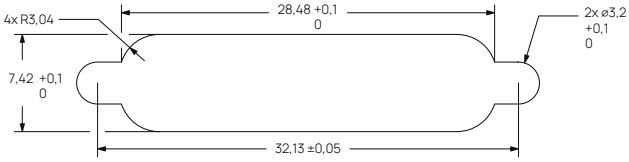
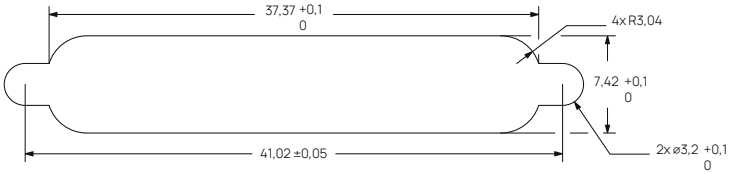
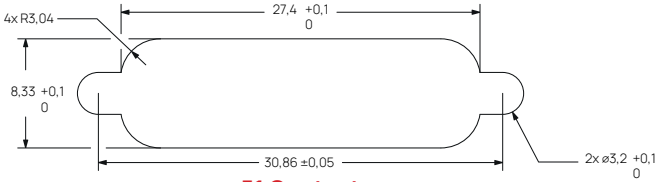


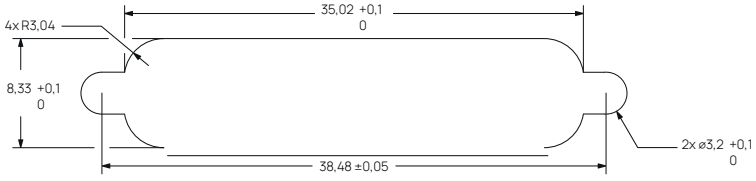
37 Contact



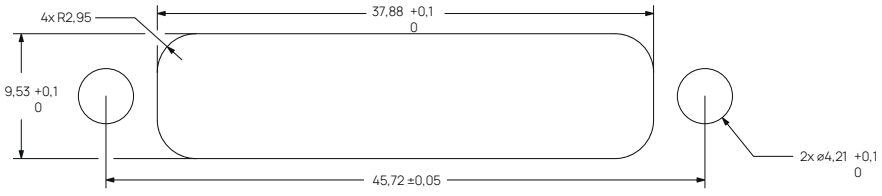
51-2 Contact



51 Contact



69 Contact

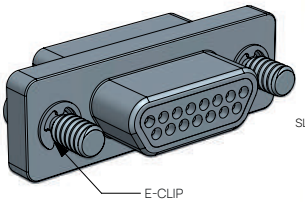


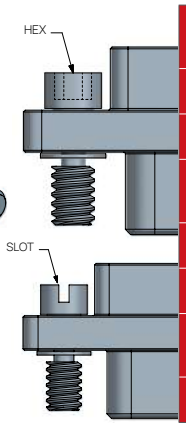
100 Contact

MICRO-D MOUNTING HARDWARE

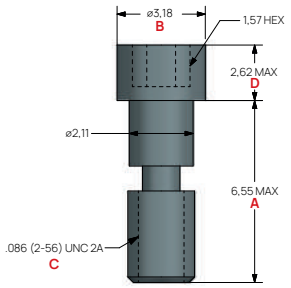
- Jackscrew
- Extended Jackscrew
- Jackpost Assembly Kit
- PCB Panel Mount Jackpost Assembly Kit
- Real Panel Mount Jackpost Assembly Kit

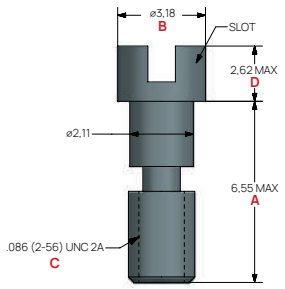
Jackscrew

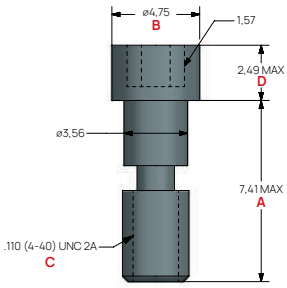


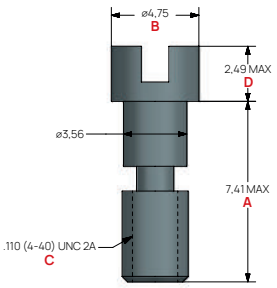


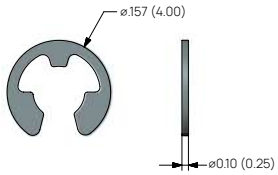
Contact Layout	9-69		100	
Armsto P/N	ARMJSHW0502	ARMJSHW0505	ARMJSHW0512	ARMJSHW0515
P/N Code	HJ	SJ	HJ	SJ
MIL-SPEC P/N	M83513/05-02 (Hex)	M83513/05-05 (Slot)	M83513/05-12 (Hex)	M83513/05-15 (Slot)
Dim. A	6,55 (.258) Max.		7,41 (.292) Max.	
Dim. B	3,18 (.125) DIA		4,75 (.187) DIA	
Dim. C (Thread)	#2-56 UNC-2A		#4-40 UNC-2A	
Dim. D	2,62 (.103) Max.		2,49 (.098) Max.	





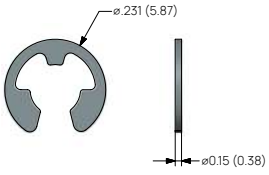






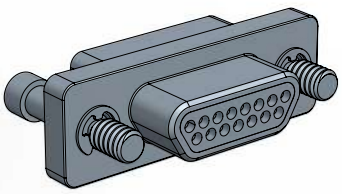
#2-56

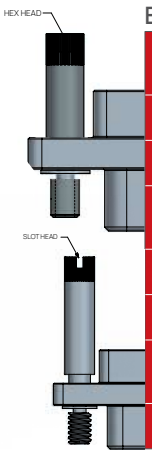
Kit Consists 2 Jackscrew And 2 E-Clips



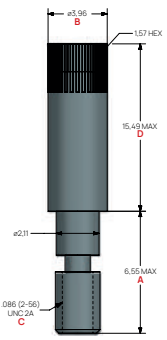
#4-40

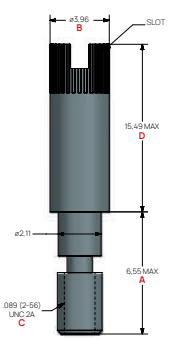
Extended Jackscrew

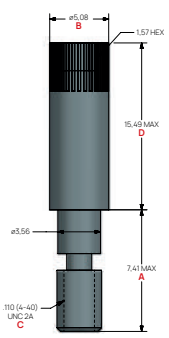


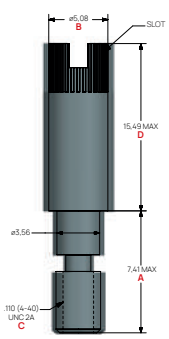


Contact Layout	9-69		100	
Armsto P/N	ARMJSHW0503	ARMJSHW0506	ARMJSHW0513	ARMJSHW0516
P/N Code	HJ1	SJ1	HJ1	SJ1
MIL-SPEC P/N	M83513/05-03 (Hex)	M83513/05-06 (Slot)	M83513/05-13 (Hex)	M83513/05-16 (Slot)
Dim. A	6,55 (.258) Max.		7,41 (.292) Max.	
Dim. B	3,96 (.125) DIA		5,08 (.187) DIA	
Dim. C (Thread)	#2-56 UNC-2A		#4-40 UNC-2A	
Dim. D	15,49 (.610) Max.		15,49 (.610) Max.	

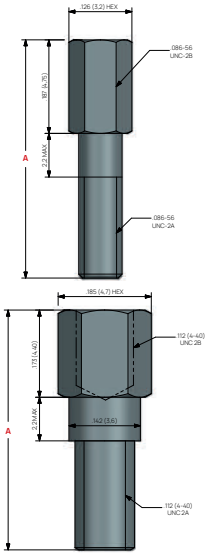








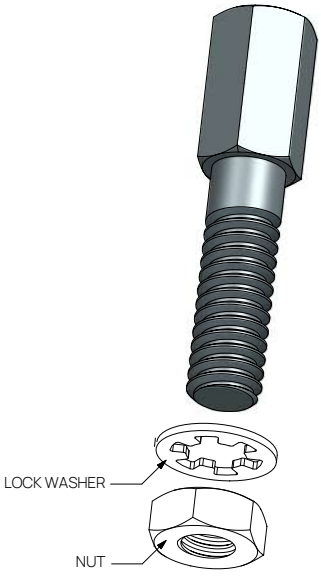
Kit Consists 2 Jackscrew And 2 E-Clips

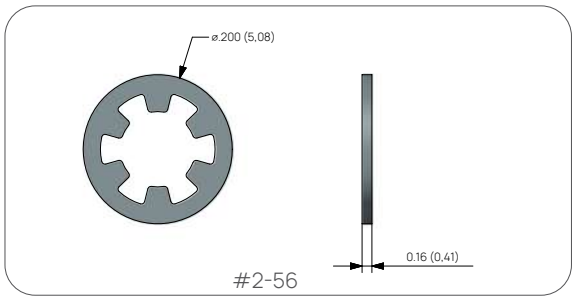


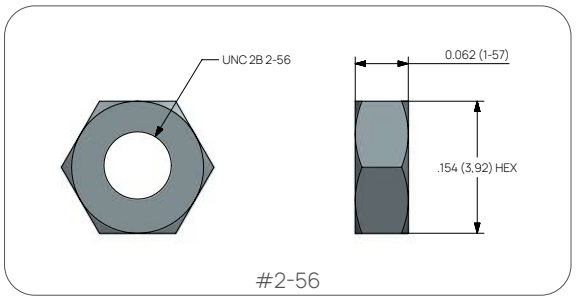
Jackpost Assembly Kit

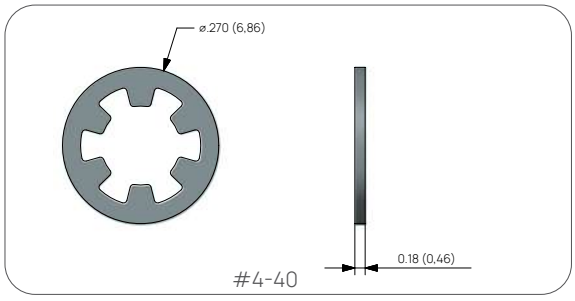
	Armsto P/N	P/N Code	A
#2-56 Contact Layout 9-69 Overall Length .475 (12,1 mm)	ARMJHW-A1K	P	.475 (12,1mm)
	ARMJHW-A2K	HH1	.688 (17,5mm)
	ARMJHW-A3K	HH2	.813 (20,7mm)
	ARMJHW-A4K	HH3	.938 (23,8mm)
	ARMJHW-A5K	HH4	1.063 (27,0mm)
	ARMJHW-A6K	HH5	1.188 (30,2mm)
#4-40 Contact Layout 100 Overall Length .475 (12,1 mm)	ARMJHW-B1K	P	.475 (12,1mm)
	ARMJHW-B2K	HH1	.688 (17,5mm)
	ARMJHW-B3K	HH2	.813 (20,7mm)
	ARMJHW-B4K	HH3	.938 (23,8mm)
	ARMJHW-B5K	HH4	1.063 (27,0mm)
	ARMJHW-B6K	HH5	1.188 (30,2mm)

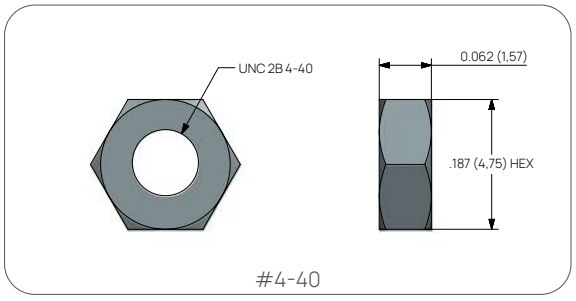
Kit Consists 2 Jackpost, 2 Lock Washers and 2 Nuts

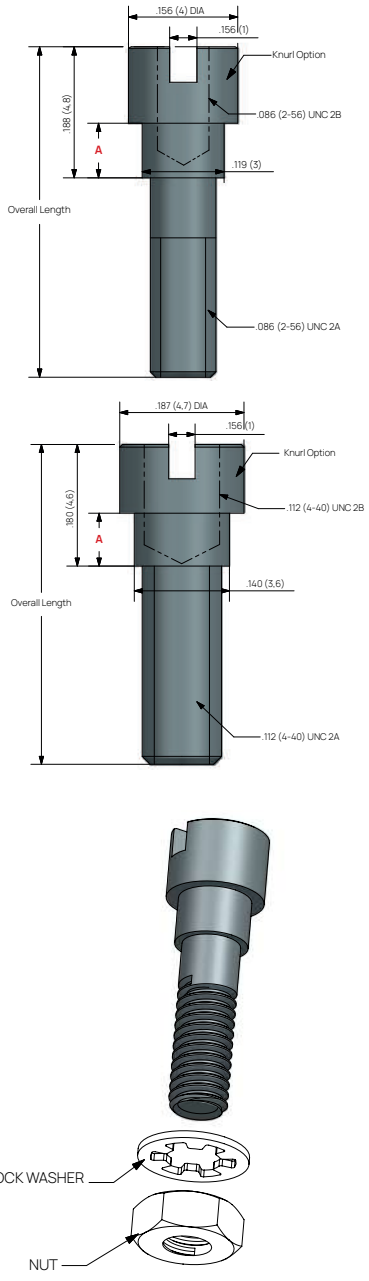








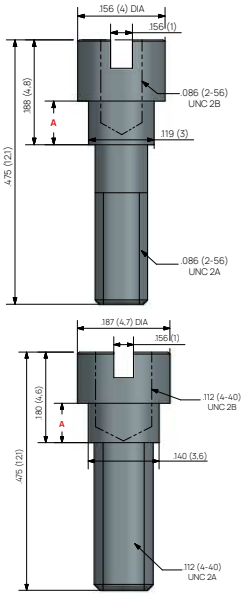




PCB Panel Mount Jackpost Assembly Kit

	Armsto P/N	P/N Code	Panel Thickness	A
#2-56 Contact Layout 9-69 Overall Length .365 (9,3 mm) BS, CBR	ARMHW-1A21B	SH01	.031 (0,8 mm)	.024 (0,61)mm
	ARMHW-1A22B	SH02	.047 (1,2 mm)	.041 (1,04 mm)
	ARMHW-1A23B	SH03	.062 (1,6 mm)	.055 (1,40 mm)
	ARMHW-1A24B	SH04	.080 (2,0 mm)	.073 (1,85 mm)
	ARMHW-1A25B	SH05	.094 (2,4 mm)	.086 (2,18 mm)
	ARMHW-1A26B	SH06	.125 (3,2 mm)	.118 (3,0 mm)
#2-56 Contact Layout 9-69 Overall Length .368 (10,1 mm) BR	ARMHW-1A31B	SH01	.031 (0,8 mm)	.024 (0,61)mm
	ARMHW-1A32B	SH02	.047 (1,2 mm)	.041 (1,04 mm)
	ARMHW-1A33B	SH03	.062 (1,6 mm)	.055 (1,40 mm)
	ARMHW-1A34B	SH04	.080 (2,0 mm)	.073 (1,85 mm)
	ARMHW-1A35B	SH05	.094 (2,4 mm)	.086 (2,18 mm)
	ARMHW-1A36B	SH06	.125 (3,2 mm)	.118 (3,0 mm)
#4-40 Contact Layout 100 Overall Length .475 (12,1 mm) BR, CBR	ARMHW-1B11B	SH01	.031 (0,8 mm)	.024 (0,61)mm
	ARMHW-1B12B	SH02	.047 (1,2 mm)	.041 (1,04 mm)
	ARMHW-1B13B	SH03	.062 (1,6 mm)	.055 (1,40 mm)
	ARMHW-1B14B	SH04	.080 (2,0 mm)	.073 (1,85 mm)
	ARMHW-1B15B	SH05	.094 (2,4 mm)	.086 (2,18 mm)
	ARMHW-1B16B	SH06	.125 (3,2 mm)	.118 (3,0 mm)
#4-40 Contact Layout 100 Overall Length .360 (9,1 mm) BS	ARMHW-1B41B	SH01	.031 (0,8 mm)	.024 (0,61)mm
	ARMHW-1B42B	SH02	.047 (1,2 mm)	.041 (1,04 mm)
	ARMHW-1B43B	SH03	.062 (1,6 mm)	.055 (1,40 mm)
	ARMHW-1B44B	SH04	.080 (2,0 mm)	.073 (1,85 mm)
	ARMHW-1B45B	SH05	.094 (2,4 mm)	.086 (2,18 mm)
	ARMHW-1B46B	SH06	.125 (3,2 mm)	.118 (3,0 mm)

Kit Consists 2 Jackpost



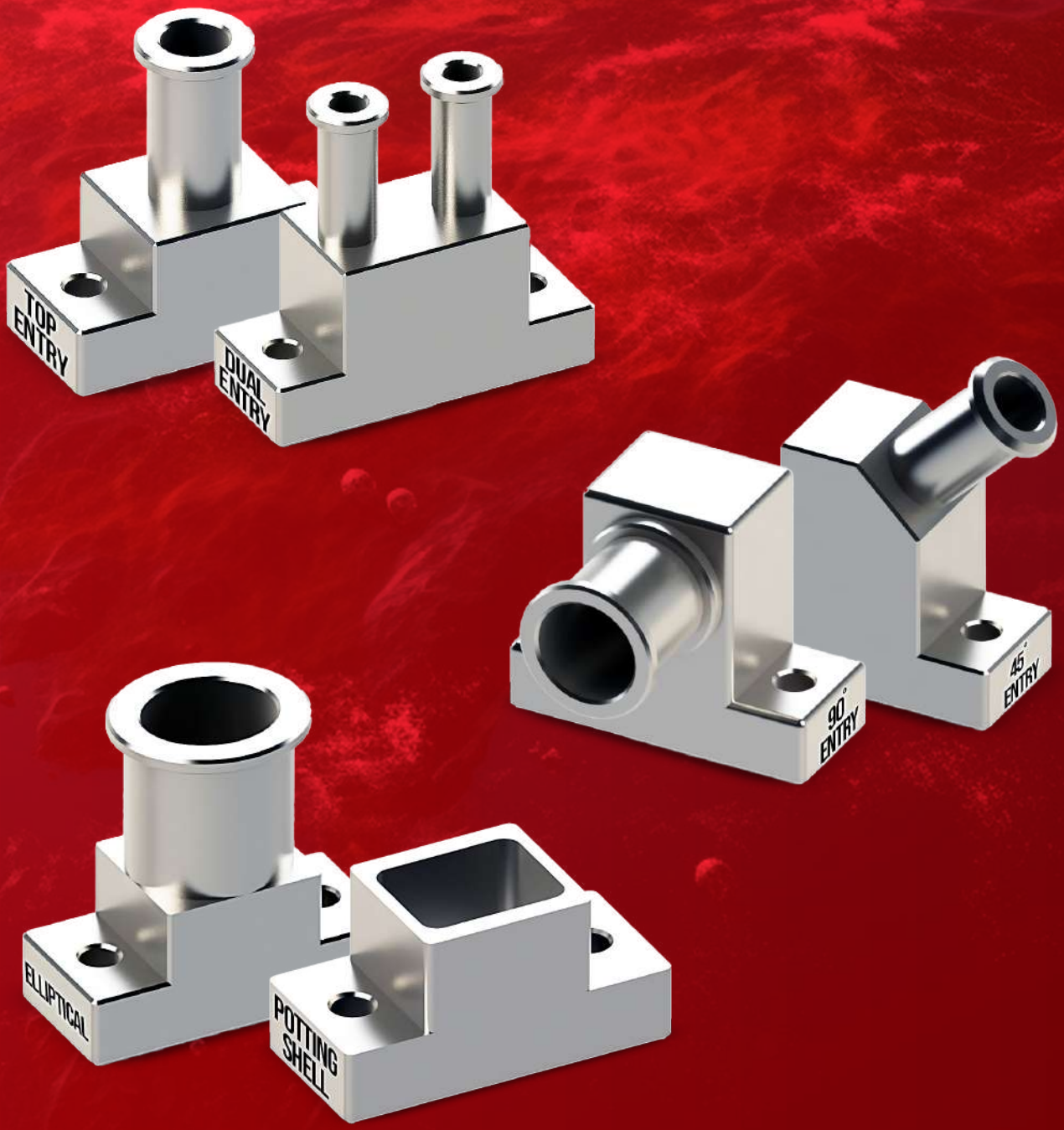
Real Panel Mount Jackpost Assembly Kit

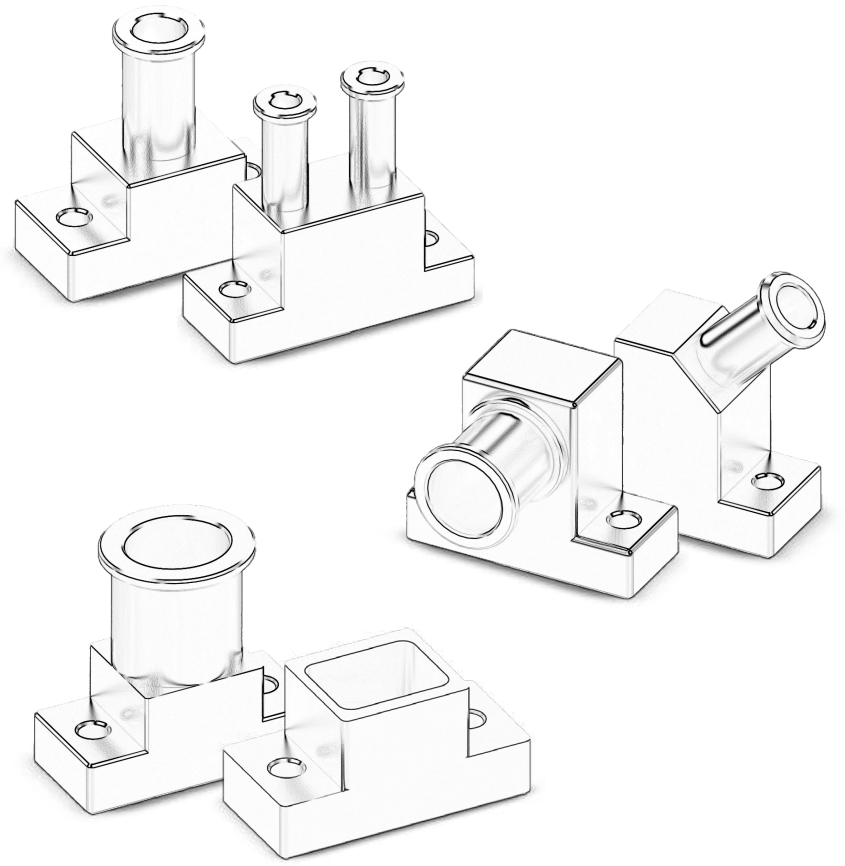
	Armsto P/N	P/N Code	Panel Thickness	A
#2-56 Contact Layout 9-69 Overall Length .475 (12,1 mm)	ARMHW-1A1K	SH01	.031 (0,8 mm)	.024 (0,61)mm
	ARMHW-1A2K	SH02	.047 (1,2 mm)	.041 (1,04 mm)
	ARMHW-1A3K	SH03	.062 (1,6 mm)	.055 (1,40 mm)
	ARMHW-1A4K	SH04	.080 (2,0 mm)	.073 (1,85 mm)
	ARMHW-1A5K	SH05	.094 (2,4 mm)	.086 (2,18 mm)
	ARMHW-1A6K	SH06	.125 (3,2 mm)	.118 (3,0 mm)
#4-40 Contact Layout 100 Overall Length .475 (12,1 mm)	ARMHW-1B1K	SH01	.031 (0,8 mm)	.024 (0,61)mm
	ARMHW-1B2K	SH02	.047 (1,2 mm)	.041 (1,04 mm)
	ARMHW-1B3K	SH03	.062 (1,6 mm)	.055 (1,40 mm)
	ARMHW-1B4K	SH04	.080 (2,0 mm)	.073 (1,85 mm)
	ARMHW-1B5K	SH05	.094 (2,4 mm)	.086 (2,18 mm)
	ARMHW-1B6K	SH06	.125 (3,2 mm)	.118 (3,0 mm)

Kit Consists 2 Jackpost, 2 Lock Washers and 2 Nuts

BACKSHELL SPECIFICATIONS

- Armsto Micro-D Backshells are designed for use with MIL-DTL-83513 connectors, with custom options available.
- They are offered for connector sizes 9, 15, 21, 25, 31, 37, 51, 69, and 100.
- Armsto EMI Backshells provide protection for electrical wiring harnesses against electromagnetic interference (EMI).
- Shell options include aluminum alloy or stainless steel.





Backshell Type	
Top Entry	**Round Cable Entry Backshells** One entry Micro-D backshells are available in top, 90° and 45° entry options.
90° Entry	
45° Entry	
Dual 45° Entry	**Dual Cable Entry Backshells** Dual 45° and dual-entry backshells allow the attachment of two separate wire bundles to the same Micro-D connector.
Dual Entry	
Elliptical	**Elliptical Backshells** Elliptical backshells are designed to provide extra space for large cable harnesses.
Potting Shell (Not EMI)	**Potting Backshells** Potting shells are designed for easy encapsulation of Micro-D solder cup terminations.

Backshell Finish
Aluminum Alloy 6061
Electroless Nickel
Cadmium with Yellow Chromate
Chem Film
Gold
Black Anodize
Passivated (Only Stainless Steel)

ARMMDBT-

Top Entry Micro-D Backshell Series

	1.	2.	3.	4.	5.
	Series	Shell Material	Shell Size	Shell Finish Type	Hardware Type	Cable Entry Code
	ARMMDBT	- A	9	1	FJ	- 01

1 I Shell Material

A: Aluminum

SS: Stainless Steel

2 I Shell Size

9, 15, 21, 25, 31, 37, 51-2, 51, 69, 100

3 I Shell Finish Type

1: Electroless Nickel

2: Cadmium with Yellow Chromate

3: Chem Film

4: Gold

5: Black Anodize

6: Silver

7: Passivated (Only Stainless Steel)

4 I Hardware Type

FJ, MFJ, HJ, MHJ, JP, EJ, MEJ

5 I Cable Entry Code

01, 02, 03, 04, 05, 06, 07 (See Table I)

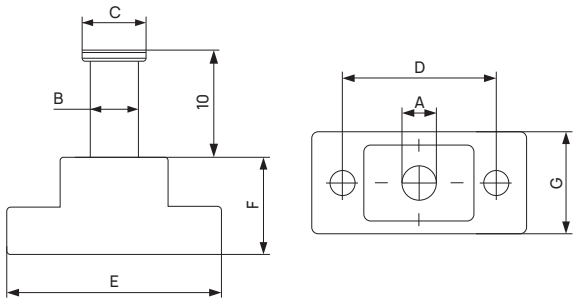


Table I - Cable Entry Code				
Code	A	B	C	Available on Size
01	3.00	4.50	6.00	09 AND 15
02	4.00	5.50	7.00	09 THRU 51
03	5.00	6.50	8.00	15 THRU 100
04	6.00	7.50	9.00	15 THRU 100
05	7.00	8.50	10.00	31 THRU 100
06	8.00	9.50	11.00	51 THRU 100
07	9.00	10.50	12.00	100 ONLY

Dimensions given are in mm

Dimensions							
Size	A Max.	B Max.	C Max.	D	E Max.	F Max.	G Max
09	Table I	Table I	Table I	14.95	20.00	9.00	9.35
15	Table I	Table I	Table I	18.15	23.75	12.00	9.35
21	Table I	Table I	Table I	22.00	27.60	15.40	9.35
25	Table I	Table I	Table I	24.50	30.00	17.00	9.35
31	Table I	Table I	Table I	28.30	34.00	18.40	9.35
37	Table I	Table I	Table I	32.10	37.80	19.40	9.35
51	Table I	Table I	Table I	30.85	36.50	20.00	10.50
51-2	Table I	Table I	Table I	41.00	46.70	22.00	9.40
67	Table I	Table I	Table I	51.20	56.80	21.00	9.40
69	Table I	Table I	Table I	38.50	44.10	21.00	10.50
75	Table I	Table I	Table I	43.30	52.80	22.00	10.50
100	Table I	Table I	Table I	45.70	55.20	22.00	11.60

Dimensions given are in mm

ARMMDBD45–

Dual 45° Entry Micro-D Backshell Series

	1.	2.	3.	4.	5.
Series	Shell Material	Shell Size	Shell Finish Type	Hardware Type	Cable Entry Code
ARMMDBD45	- A	9	1	FJ	- 01

1 | Shell Material

A: Aluminum

SS: Stainless Steel

2 | Shell Size

9, 15, 21, 25, 31, 37, 51-2, 51, 69, 100

3 | Shell Finish Type

1: Electroless Nickel

2: Cadmium with Yellow Chromate

3: Chem Film

4: Gold

5: Black Anodize

6: Silver

7: Passivated (Only Stainless Steel)

4 | Hardware Type

FJ, MFJ, HJ, MHJ, JP

5 | Cable Entry Code

01, 02, 03, 04, 05, 06, 07 (See Table IV)

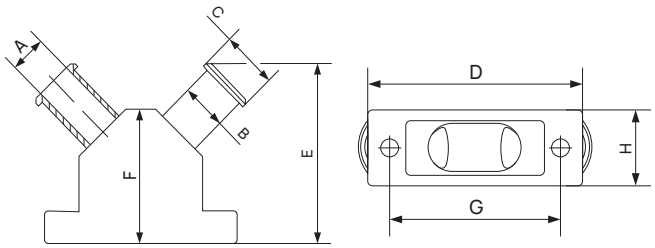


Table IV- Cable Entry Code				
Code	A	B	C	Available on Size
01	3.00	4.50	6.00	09 AND 15
02	4.00	5.50	7.00	09 THRU 51
03	5.00	6.50	8.00	15 THRU 100
04	6.00	7.50	9.00	15 THRU 100
05	7.00	8.50	10.00	31 THRU 100
06	8.00	9.50	11.00	51 THRU 100
07	9.00	10.50	12.00	100 ONLY

Dimensions given are in mm

Dimensions								
Size	A Max.	B Max.	C Max.	D	E Max.	F Max.	G Max.	H Max.
09	Table IV	Table IV	Table IV	20.00	25.00	17.40	14.95	9.35
15	Table IV	Table IV	Table IV	23.75	26.00	19.00	18.15	9.35
21	Table IV	Table IV	Table IV	27.60	27.00	20.00	22.00	9.35
25	Table IV	Table IV	Table IV	30.00	28.00	21.40	24.50	9.35
31	Table IV	Table IV	Table IV	34.00	29.00	23.00	28.30	9.35
37	Table IV	Table IV	Table IV	37.80	31.00	24.80	32.10	9.35
51	Table IV	Table IV	Table IV	36.50	33.00	26.00	30.85	10.50
51-2	Table IV	Table IV	Table IV	46.70	33.00	26.00	41.00	9.40
67	Table IV	Table IV	Table IV	56.80	33.00	26.00	51.20	9.40
69	Table IV	Table IV	Table IV	44.10	33.00	26.00	38.50	10.50
75	Table IV	Table IV	Table IV	52.80	35.00	28.00	43.30	10.50
100	Table IV	Table IV	Table IV	55.20	36.00	28.40	45.70	11.60

Dimensions given are in mm

ARMMDBD–

Dual Entry Micro-D Backshell Series

	1.	2.	3.	4.
Series	**Shell Material**	**Shell Size**	**Shell Finish Type**	**Hardware Type**
ARMMDBD	- A	15	1	- FJ

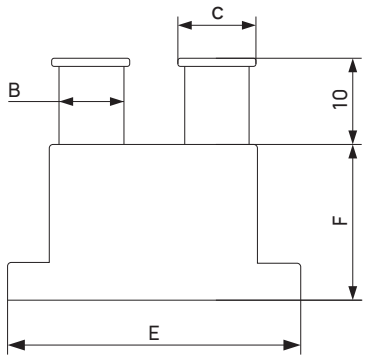
1 | Shell Material

A: Aluminum

SS: Stainless Steel

2 | Shell Size

15, 21, 25, 31, 37, 51-2, 51, 69, 100



3 | Shell Finish Type

1: Electroless Nickel

2: Cadmium with Yellow Chromate

3: Chem Film

4: Gold

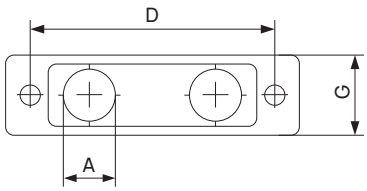
5: Black Anodize

6: Silver

7: Passivated (Only Stainless Steel)

4 | Hardware Type

FJ, MFJ, HJ, MHJ, JP, EJ, MEJ



Dimensions							
Size	**A Max.**	**B**	**C**	**D**	**E Max.**	**F Max.**	**G Max.**
15	2.50	4.00	5.50	18.15	23.75	12.00	9.35
21	3.50	5.00	6.50	22.00	27.60	15.40	9.35
25	5.00	6.50	8.00	24.50	30.00	17.00	9.35
31	6.00	7.50	9.00	28.30	34.00	18.40	9.35
37	6.50	8.00	9.50	32.10	37.80	19.40	9.35
51	8.00	9.50	11.00	30.85	36.50	20.00	10.50
51-2	7.00	8.50	10.00	41.00	46.70	22.00	9.40
67	7.00	8.50	10.00	51.20	56.80	21.00	9.40
69	8.00	9.50	11.00	38.50	44.10	21.00	10.50
75	8.00	9.50	11.00	43.30	52.80	22.00	10.50
100	9.50	11.00	12.50	45.70	55.20	22.00	11.60

Dimensions given are in mm

FJ	MFJ	HJ	MHJ	EJ	MEJ	JP
						
Fillister Head Jackscrew	Male Fillister Head Jackscrew	Hex Head Jackscrew	Male Hex Jackscrew Extended	Extended Jackscrew	Male Extended Jackscrew	Jackpost

ARMMDBE-

Elliptical Micro-D Backshell Series

	1.	2.	3.	4.	5.
Series	Shell Material	Shell Size	Shell Finish Type	Hardware Type	Cable Entry Code
ARMMDBE	- A	9	1	FJ	- 01

1 | Shell Material

A: Aluminum

SS: Stainless Steel

2 | Shell Size

9, 15, 21, 25, 31, 37, 51-2, 51, 69, 100

3 | Shell Finish Type

1: Electroless Nickel

2: Cadmium with Yellow Chromate

3: Chem Film

4: Gold

5: Black Anodize

6: Silver

7: Passivated (Only Stainless Steel)

4 | Hardware Type

FJ, MFJ, HJ, MHJ, JP, EJ, MEJ

5 | Cable Entry Code

01, 02, 03, 04, 05, 06, 07, 08, 09 (See Table V)

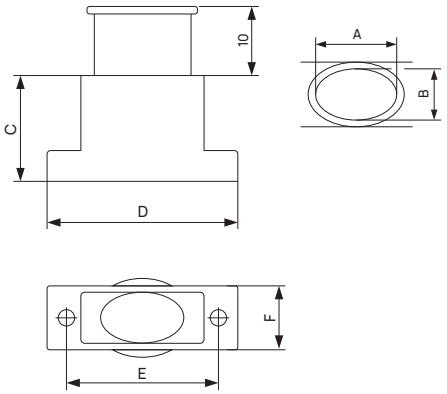


Table V - Cable Entry Code			
Code	A	B	Available on Size
01	8,10	7,30	09 THRU 37
02	11,90	7,30	15 THRU 37
03	15,80	7,30	21 THRU 51-2
04	18,30	7,30	25 THRU 75
05	22,10	7,30	31 THRU 100
06	25,90	7,30	37 THRU 100
07	24,40	8,20	51 THRU 100
08	27,60	8,20	17 AND 100
09	29,60	9,10	ONLY 100

Dimensions given are in mm

Dimensions						
Size	A Max.	B Max.	C Max.	D Max.	E	F Max.
09	Table V	Table V	9,00	20,00	14,95	9,35
15	Table V	Table V	12,00	23,75	18,15	9,35
21	Table V	Table V	15,40	27,60	22,00	9,35
25	Table V	Table V	17,00	30,00	24,50	9,35
31	Table V	Table V	18,40	34,00	28,30	9,35
37	Table V	Table V	19,40	37,80	32,10	9,35
51	Table V	Table V	20,00	36,50	30,85	10,50
51-2	Table V	Table V	22,00	46,70	41,00	9,40
67	Table V	Table V	21,00	56,80	51,20	9,40
69	Table V	Table V	21,00	44,10	38,50	10,50
75	Table V	Table V	22,00	52,80	43,30	10,50
100	Table V	Table V	22,00	55,50	45,70	11,60

Dimensions given are in mm

ARMMDB45–

45° Entry Micro-D Backshell Series

	1.	2.	3.	4.	5.
	Series	Shell Material	Shell Size	Shell Finish Type	Hardware Type	Cable Entry Code
	ARMMDB45	- A	9	1	FJ	- 01

1 I Shell Material

A: Aluminum

SS: Stainless Steel

2 I Shell Size

9, 15, 21, 25, 31, 37, 51-2, 51, 69, 100

3 I Shell Finish Type

1: Electroless Nickel

2: Cadmium with Yellow Chromate

3: Chem Film

4: Gold

5: Black Anodize

6: Silver

7: Passivated (Only Stainless Steel)

4 I Hardware Type

FJ, MFJ, HJ, MHJ, JP

5 I Cable Entry Code

01, 02, 03, 04, 05, 06, 07 (See Table III)

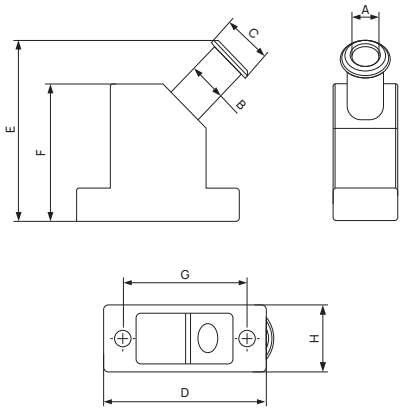


Table III - Cable Entry Code				
Code	A	B	C	Available on Size
01	3.00	4.50	6.00	09 AND 15
02	4.00	5.50	7.00	09 THRU 51
03	5.00	6.50	8.00	15 THRU 100
04	6.00	7.50	9.00	15 THRU 100
05	7.00	8.50	10.00	31 THRU 100
06	8.00	9.50	11.00	51 THRU 100
07	9.00	10.50	12.00	100 ONLY

Dimensions given are in mm

Dimensions								
Size	A Max.	B Max.	C Max.	D	E Max.	F Max.	G Max.	H Max.
09	Table III	Table III	Table III	20.00	25.00	17.40	14.95	9.35
15	Table III	Table III	Table III	23.75	26.00	19.00	18.15	9.35
21	Table III	Table III	Table III	27.60	27.00	20.00	22.00	9.35
25	Table III	Table III	Table III	30.00	28.00	21.40	24.50	9.35
31	Table III	Table III	Table III	34.00	29.00	23.00	28.30	9.35
37	Table III	Table III	Table III	37.80	31.00	24.80	32.10	9.35
51	Table III	Table III	Table III	36.50	33.00	26.00	30.85	10.50
51-2	Table III	Table III	Table III	46.70	33.00	26.00	41.00	9.40
67	Table III	Table III	Table III	56.80	33.00	26.00	51.20	9.40
69	Table III	Table III	Table III	44.10	33.00	26.00	38.50	10.50
75	Table III	Table III	Table III	52.80	35.00	28.00	43.30	10.50
100	Table III	Table III	Table III	55.20	36.00	28.40	45.70	11.60

Dimensions given are in mm

ARMMDB90-

90° Entry Micro-D Backshell Series

	1.	2.	3.	4.	5.
Series	**Shell Material**	**Shell Size**	**Shell Finish Type**	**Hardware Type**	**Cable Entry Code**
ARMMDB90	- A	9	1	FJ	- 01

1 I Shell Material

A: Aluminum

SS: Stainless Steel

2 I Shell Size

9, 15, 21, 25, 31, 37, 51-2, 51, 69, 100

3 I Shell Finish Type

1: Electroless Nickel

2: Cadmium with Yellow Chromate

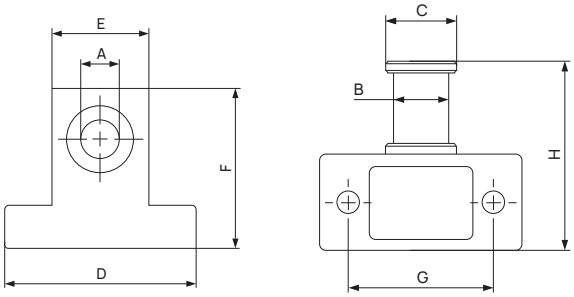
3: Chem Film

4: Gold

5: Black Anodize

6: Silver

7: Passivated (Only Stainless Steel)



4 I Hardware Type

FJ, MFJ, HJ, MHJ, JP, EJ, MEJ

5 I Cable Entry Code

01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13 (See Table II)

Table II - Cable Entry Code				
Code	**A**	**B**	**C**	**Available on Size**
01	3,00	4,50	6,00	09 AND 15
02	4,00	5,50	7,00	09 THRU 31
03	5,00	6,50	8,00	09 THRU 69
04	6,00	7,50	9,00	09 THRU 100
05	7,00	8,50	10,00	15 THRU 100
06	8,00	9,50	11,00	21 THRU 100
07	9,00	10,50	12,00	21 THRU 100
08	10,00	11,50	13,00	37 THRU 100
09	11,00	12,50	14,00	51 THRU 100
10	12,00	13,50	15,00	69 THRU 100
11	13,00	14,50	16,00	69 THRU 100
12	14,00	15,50	17,00	69 THRU 100
13	15,00	16,50	18,00	69 THRU 100

Dimensions given are in mm

Dimensions								
Size	**A Max.**	**B Max.**	**C Max.**	**D**	**E Max.**	**F Max.**	**G Max.**	**H Max.**
09	Table II	Table II	Table II	20,00	10,20	16,40	14,95	18,40
15	Table II	Table II	Table II	23,75	14,00	17,00	18,15	18,40
21	Table II	Table II	Table II	27,60	17,80	18,00	22,00	18,40
25	Table II	Table II	Table II	30,00	20,35	19,00	24,50	18,40
31	Table II	Table II	Table II	34,00	24,15	19,20	28,30	18,40
37	Table II	Table II	Table II	37,80	28,00	19,80	32,10	18,40
51	Table II	Table II	Table II	36,50	26,70	20,40	30,85	19,50
51-2	Table II	Table II	Table II	46,70	36,90	22,00	41,00	18,40
67	Table II	Table II	Table II	56,80	36,85	22,50	51,20	18,40
69	Table II	Table II	Table II	44,10	34,30	22,75	38,50	19,50
75	Table II	Table II	Table II	52,80	36,60	28,00	43,30	19,50
100	Table II	Table II	Table II	55,20	36,70	28,40	45,70	20,60

Dimensions given are in mm

ARMMDBDP-

Potting Shell Micro-D Backshell Series

	1.	2.	3.	4.
Series	**Shell Material**	**Shell Size**	**Shell Finish Type**	**Hardware Type**
ARMMDBDP	- A	9	1	- FJ

1 | Shell Material

A: Aluminum

SS: Stainless Steel

2 | Shell Size

9, 15, 21, 25, 31, 37, 51-2, 51, 69, 100

3 | Shell Finish Type

1: Electroless Nickel

2: Cadmium with Yellow Chromate

3: Chem Film

4: Gold

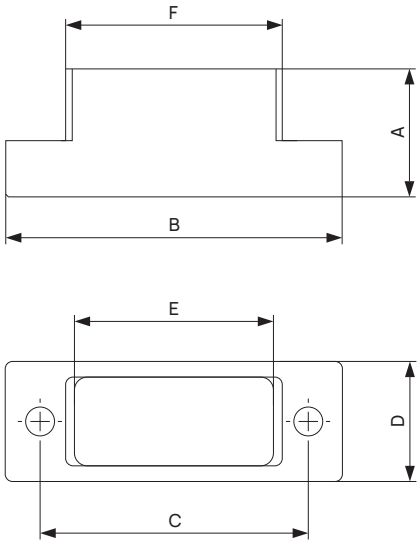
5: Black Anodize

6: Silver

7: Passivated (Only Stainless Steel)

4 | Hardware Type

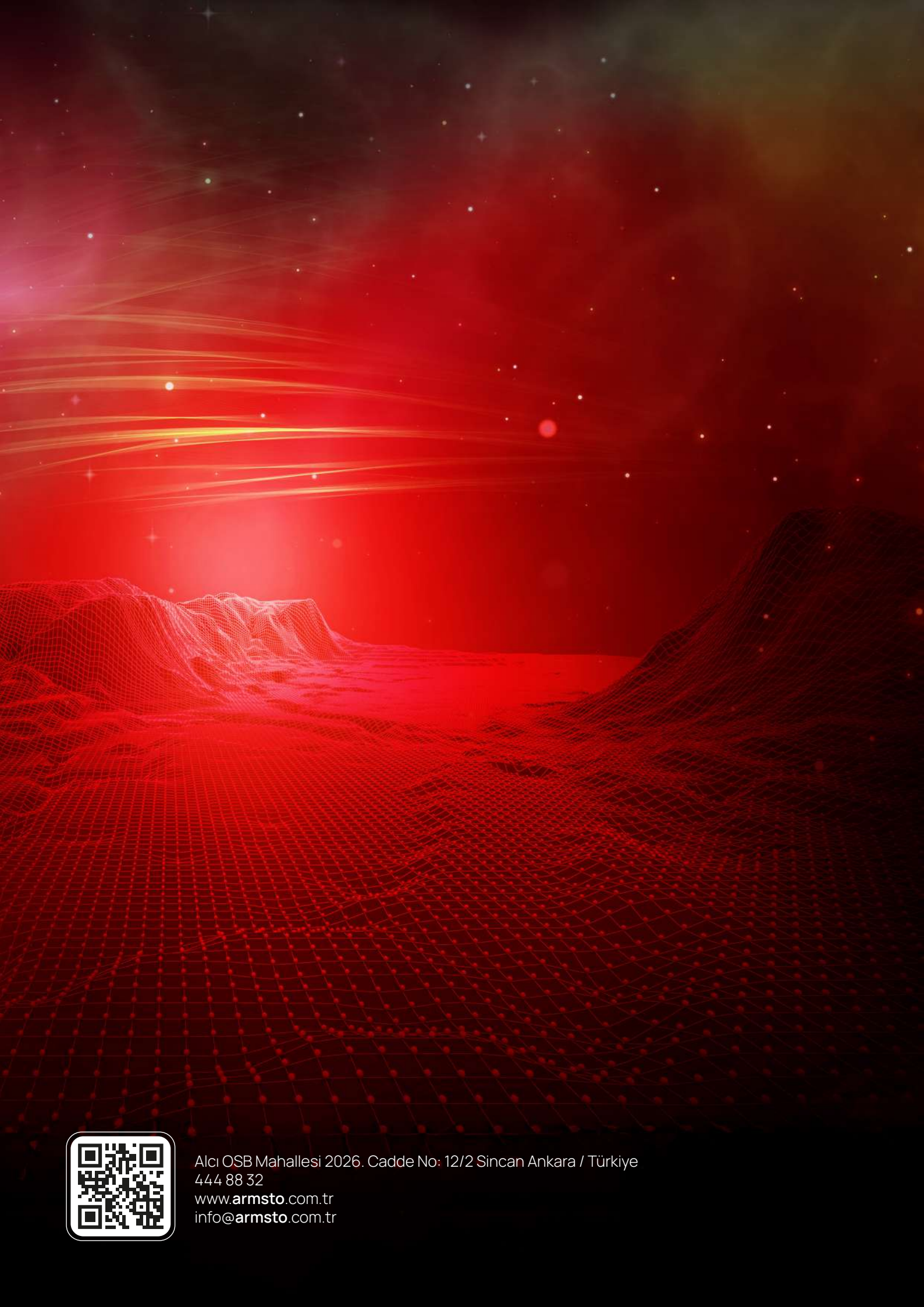
FJ, MFJ, HJ, MHJ, JP, EJ, MEJ



Dimensions						
Size	**A Max.**	**B Max.**	**C**	**D Max.**	**E Max.**	**F Max.**
09	10.00	20.00	14.95	9.35	8.70	10.20
15	10.00	23.75	18.15	9.35	12.50	14.00
21	10.00	27.60	22.00	9.35	16.30	17.80
25	10.00	30.00	24.50	9.35	18.85	20.35
31	10.00	34.00	28.30	9.35	22.65	24.15
37	10.00	37.80	32.10	9.35	26.45	28.00
51	10.00	36.50	30.85	10.50	25.20	26.70
51-2	10.00	46.70	41.00	9.40	35.35	36.85
67	12.50	56.80	51.20	9.40	35.35	36.85
69	12.50	44.10	38.50	10.50	32.80	34.30
75	12.50	52.80	43.30	10.50	35.00	36.60
100	12.50	55.20	45.70	11.60	35.20	36.65

Dimensions given are in mm

FJ	MFJ	HJ	MHJ	EJ	MEJ	JP
						
Fillister Head Jackscrew	Male Fillister Head Jackscrew	Hex Head Jackscrew	Male Hex Jackscrew Extended	Extended Jackscrew	Male Extended Jackscrew	Jackpost



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